

SAN JOAQUIN DELTA COLLEGE

2017-2018 CATALOG

Stockton Campus
5151 Pacific Avenue
Stockton, CA 95207
(209) 954-5151

South Campus at Mountain House
2073 South Central Parkway
Mountain House, CA 95391
(209) 833-7900

Manteca Center
5298 Brunswick Road
Manteca, CA 95336
(209) 954-5151

Visit our Web Site at:
www.deltacollege.edu

President's Welcome



Welcome to San Joaquin Delta College!

Whether you are a new student or a continuing one, the Board, the faculty, the staff, and I want to thank you for choosing Delta. We hope that you will find this catalog informative and useful as you pursue your studies here at the College. If you are a prospective student but still undecided about whether to attend Delta, we believe this catalog has all the information you will need to help you make your choice.

This catalog provides a wealth of information about Delta College. You can read about the mission, vision, accreditation, rich traditions, and history of the College. You can learn about all of the transfer, Associate in Arts and Associate in Science degrees, Career Technical Education Certificate programs, and the wide variety of courses the College offers. You can find out about how to apply for admission, how and when to register for classes, how to pay for college, and how to transfer to a four-year university. You can also learn about College policies and regulations that you will be expected to follow. Finally, you will be able to find information about all the services the College offers and whom to ask for help when you need it.

Delta is a great "first choice" college. Delta is very affordable, particularly if you are preparing to enter the workforce or to transfer to a bachelor's degree-granting institution. To help you finance your work at Delta, we offer many scholarships and other financial aid options. Our excellent, hardworking faculty are widely known for their strong teaching skills and their personal interest in students and student success. We also have a highly-skilled, friendly staff and very strong student support services for all students including those with special needs. Assessment of your entering skills guides appropriate placement into courses, orientation helps you "learn the ropes," and highly-trained counselors assist you in developing focused, realistic student educational plans that ensure that you realize your educational and career goals without delay. These three steps, all part of California's Student Success Initiative, will give you the foundation you need to be successful. The College also offers a wide array of clubs you can join, sports you can participate in and sporting events you can attend, and arts and cultural events that will enrich your college experience.

In short, we at San Joaquin Delta College are eager to serve students and our community, and we are fully committed to student success. We hope you will choose to join the Delta family.

Sincerely,

Dr. Kathleen Hart, Ph.D.
Superintendent/President

Board of Trustees

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 Carlos A. Huerta, Area 2, Central Stockton
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Mission Statement

San Joaquin Delta Community College District serves the needs of students and the District community by providing excellent post-secondary education to the associate degree level, general education and preparation for transfer to other post-secondary institutions, career and technical education, economic development, and the development of intellectual autonomy. To achieve this objective, the faculty and staff are committed to offering high quality instructional programs, student services, and efforts to enhance the public good.

Using the institution's governance and decision-making process, the institution reviews its mission statement on a regular basis and revises it as necessary. (BP 1200, 6/18/13)

Vision Statement

The faculty, staff, and students of San Joaquin Delta Community College District envision a community of lifelong learners, passionately pursuing and achieving ever-higher educational goals, and fully appreciating the diverse and dynamic world around them.

Ginger Holden, Ph.D.
 Dean of Student Learning and Assessment
Delecia Robertson, M.B.A.
 Dean of Counseling and Special Services
Angela Tos, Ed.D.
 Dean of Enrollment Services and Student Development
Salvador Vargas, M.S.
 Dean of Career Technical Education and Workforce Development
Martha Villarreal, J.D.
 Acting Dean of Distance and Regional Education
Jessie Garza-Roderick, Ed.D.
 Associate Dean of South Campus at Mountain House

In fulfilling its mission and vision, San Joaquin Delta College acts upon the following principles:

- The Board of Trustees, faculty, staff, and students believe excellence requires
 - Open and honest communication,
 - Commitment to high academic standards,
 - Respect for intellectual and ideological diversity,
 - Appreciation of historical perspective,
 - Appropriate application of advancing technologies,
 - Investment in career and technical education, and economic and workforce development,
 - A vital connection to the arts,
 - Celebrating and embracing the cultural diversity of the community, and
 - Opportunities for physical development and competitive athletics.
- Institutional renewal includes continuous improvement through
 - evidence-based institutional research concerning student access, retention, success,
 - effective methods of developing and revising educational programs and services,
 - the study and application of effective methods of teaching and learning,

- commitment to clear outcomes and effective assessment to enhance student performance,
- the enhancement of appropriate student-centered support services,
- the effective application of technologies, and
- the continual professional development of all faculty and staff.
- Student success and equity at the post-secondary level may require appropriate developmental instruction as well as instruction in English as a second language, through an institutionally-integrated developmental education program that

Accreditation

San Joaquin Delta College is accredited by the Accrediting Commission for Community and Junior Colleges of the Western Association of Schools and Colleges, 10 Commercial Blvd., Novato, CA. 94949, (415) 506-0234, an institutional accrediting body recognized by the Commission on Recognition of Postsecondary Accreditation and the U.S. Department of Education. The District has two educational centers recognized by the Commission to offer 50% or more of a degree or certificate program: the Stockton Campus at 5151 Pacific Avenue, Stockton, CA 95207 and the South Campus at Mountain House, 2073 South Central Parkway, Mountain House, CA 95391.

The College's programs are accredited or approved by professional organizations and/or national and state agencies including:

- Accrediting Commission for Education in Nursing
- California Commission on Peace Officers Standards and Training
- California State Board of Registered Nursing
- California State Board of Vocational Nursing and Psychiatric Technicians
- California State Department of Education
- California State University
- National Automotive Technician's Education Foundation
- University of California

Student Learning Outcomes

San Joaquin Delta College Philosophy on Student Learning Outcomes

The purpose of Student Learning Outcomes and Assessment (SLOA) is to improve student learning. It is driven by San Joaquin Delta's Institutional Mission and is a professional responsibility of faculty, staff, managers and administrators. Outcomes and assessments are primarily developed and implemented by faculty and student service professionals. SLOA requires that the institution provides clear and measurable outcomes, authentic learning experiences, and assessment of student learning that includes the systematic collection, collaborative analysis and interpretation, and use of

leads directly toward completion of a degree, certificate, and/or to transfer to another post-secondary institution, or viable employment.

- Appropriate educational resources are available to all qualified students.
- Delta College commits to encouraging good citizenship, responsible leadership, and wise stewardship of resources through ethical leadership, and respect for education as a lifelong endeavor.

(BP 6/18/13)

assessment information to understand and improve teaching and learning.

Student Learning Outcomes for all programs and courses are published on the college web site: www.deltacollege.edu/div/slo/index.html

Institutional Learning Outcomes

San Joaquin Delta College is committed to providing students with the knowledge and skills necessary to succeed as productive members of society. Degree and certificate programs are designed to foster the development of students who demonstrate and apply the principles listed below.

I. HUMAN CULTURE AND THE PHYSICAL WORLD

- A. Awareness and Appreciation of Social Institutions
 1. Historical Perspectives: Understand the growth and evolution of social, political, economic, religious and cultural systems.
 2. Arts and Culture: Recognize the essential nature of the arts in affecting thriving cultures.
 3. Cultural Diversity: Appreciate the primary significance of cultural diversity as a factor in the formation and success of society.
- B. Environmental Responsibility
 1. Understand how to use resources responsibly.
 2. Understand why human population growth is an important environmental issue.
 3. Understand how natural processes and human activities contribute to climate change.

II. DISCIPLINE, CAREER AND TECHNICAL COMPETENCE

- A. Discipline-specific knowledge

Develop knowledge of a discipline, set of related disciplines, or a career/technical field.
- B. Application and analysis of knowledge

Apply, analyze, synthesize, and evaluate concepts, principles, and practices in a variety of real-world settings.

III. QUANTITATIVE, SCIENTIFIC AND COMMUNICATION SKILLS

- A. Quantitative Competency

1. Apply mathematical concepts and principles in a variety of real-world contexts.
 2. Demonstrate knowledge of fundamentals of 21st century economic, business, and personal financial concepts, principles, and processes and effectively apply it in real-world settings.
- B. Scientific Competency
Demonstrate knowledge of fundamental scientific principles, concepts, and processes (e.g., scientific method), and effectively apply it in real-world settings.
- C. Communication Competency
Demonstrate effective and appropriate methods of communication (e.g., reading, writing, listening, speaking, signing, performing and visual arts, and utilizing electronic media).

IV. PERSONAL AND SOCIAL DEVELOPMENT

- A. Development and Demonstration of Responsibility: Personal; Civic and Social; Interpersonal and Intercultural
1. Personal Responsibility.
 2. Demonstrate responsibility for one's own health, safety, and well-being.
 3. Develop economic self-sufficiency.
 4. Prioritize family, work, and leisure effectively.
 5. Manage the college experience to achieve academic and personal success.
 6. Set and achieve personal, educational, and life goals.
- B. Civic and Social Responsibility
1. Demonstrate a commitment to public life through engagement in organizations.
 2. Exercise leadership and appropriate behavior as a member of groups.
 3. Practice ethical behavior through appropriate choices.
- C. Interpersonal and Intercultural Responsibility
1. Act with civility and respect for people of diverse cultures, socioeconomic and political backgrounds, sexual orientations, disabilities, ideas, and viewpoints.
 2. Engage in meaningful relationships with peers, instructors, and others.
 3. Demonstrate cooperation and collaboration with others in academic, artistic, athletic, and other settings.

V. LIFELONG LEARNING

- A. Information and Technological Competency
Find, evaluate, ethically use, and appropriately cite information in a variety of formats (e.g., print, multimedia, and electronic resources).
- B. Intellectual Competency
Think, reason, and reflect critically; generate questions and explore ideas; and analyze and synthesize information.
- C. Engagement in Lifelong Learning
1. Update knowledge and skills to maintain currency in a discipline(s) or a career/technical field.
 2. Engage in learning for intellectual stimulation and recreational activities.

How to Use This Catalog

Use this catalog to find about:

- What Delta College offers
- How to apply for admission
- When and how to register for classes
- When classes begin
- Associate in Arts degrees and requirements
- Associate in Science degrees and requirements
- Career Technical Education certificates and requirements
- How to pay for college
- College policies and regulations
- How things work at Delta College
- Whom to ask for help

History

The first junior college in California was established in Fresno in 1910, stirring interest in the concept across the state including attempts in Stockton in 1917, which failed due to inadequate enrollment, and in 1920, when the Stockton Board of Education formally agreed upon an institution but provided no funds. It was at College of the Pacific, a private, Methodist College located in Stockton since 1924, that the origins of San Joaquin Delta College began to emerge. In 1934 and under the direction of Dr. Tully Knoles and Dr. Dwayne Orton, head of the Pacific Speech Department, the College of Pacific Coordinating Committee recommended the formation of a lower division program to admit high school students not fully qualified for regular Pacific admission and for Pacific students who failed to maintain satisfactory performance. The committee put the plan into motion in February of 1934, naming Dr. Orton as principal of the College of the Pacific Junior College. The program's courses were listed in the Pacific catalog of 1934-35, and 73 students were enrolled in the private junior college that fall. Thus began the formative years.

Pacific officials offered to turn the program over to the Stockton Board of Education, which was paying \$30,000 annually for local students to attend distant public junior colleges, and just days before the start of the 1935 fall

semester, the State Board of Education authorized the partnership between the two entities. Stockton Junior College was formed in the fall of 1935 with space and equipment rented from College of Pacific. Faculty from College of the Pacific taught classes but were employed and responsible to the Stockton Board of Education.

The success of the operation was so notable that Pacific abandoned freshmen and sophomore instruction in the spring of 1936, bequeathing all such instruction to the junior college. The two institutions shared facilities through World War II, when the junior college added another unique, although temporary, feature: running an aviation school in Nevada. Science instructor Dr. Arthur T. Bawden succeeded Dr. Orton in this period.

Successful leadership ensued with Dr. Bawden, followed by a triumvirate of three individuals — Lorraine Knoles, Burke W. Bradley, and Louis Windmiller in 1948.

Stockton Junior College became Stockton College in 1948, with Dr. Leon Minear as president and a total student body of just under 2,000. The physical change was even more evident, with classes being moved to a 43-acre site to the south of College of the Pacific's campus. The educational pattern changed as well, as the Stockton school system restructured into six years of elementary instruction, four years of junior high, and an additional four years combining the junior and senior years of high school with the freshman and sophomore years of college. The physical separation of Stockton College and College of the Pacific was followed in 1951 by the recommencement of lower division class offerings at Pacific.

In the decade of the 1950s, the educational needs of the area became greater than the geographical focus of Stockton College. In 1952, Dr. Julio Bortolazzo took charge of the campus as the College began a different approach. It expanded its vocational programs and implemented the 6-4-4 plan. Dr. Burke Bradley, Jr., followed Bortolazzo as president after which San Joaquin Delta College became the successor to Stockton College. Legally separated from Stockton Unified School District in 1963, the College encompassed virtually all of San Joaquin County and portions of three other counties. Dr. Bradley remained as Superintendent/President of the newly formed San Joaquin Delta Community College District.

The separation from Stockton Unified School District made Delta College a tenant on land owned by SUSD. In 1966, a bond election failed to develop a multi-campus college district. In 1968-69, Dr. Bortolazzo returned for one year to head a successful bond campaign that provided funding for a portion of construction of a new \$50 million campus. The Rio Vista-Isleton area in Solano County was annexed during this time as well.

Dr. Joseph Blanchard was named Superintendent/President of Delta College in 1969. He combined \$19.8 million in construction bonds with funds from six other sources, and over the next seven years directed the building of Delta's first permanent home.

With the addition of part of Calaveras County in the summer of 1976, the San Joaquin Delta Community College District grew to 2,300 square miles, larger than the states of Delaware or Rhode Island, and now serves approximately 23,000 students.

Dr. Blanchard's retirement in 1976 prompted college trustees to make a nation-wide search for a new leader that resulted in the selection of Dr. Dale Parnell, former Chancellor of the San Diego Community College District and Superintendent of Public Instruction in Oregon. Dr. Parnell, resigned on July 1, 1981, to assume a position as president and chief executive officer of the American Association of Community and Junior Colleges.

In June of 1981, the Board of Trustees chose Lawrence A. DeRicco as Superintendent/President. Dr. DeRicco, a graduate of the old Stockton College, had been an educator and businessman throughout the District before serving as Delta College's Business Manager and Vice President/Management Services for 18 years. Under Dr. DeRicco, the College entered a new era of limitations and consolidation with many foreseeable changes. During that time, DeRicco received an honorary Doctorate in Education from his alma mater, the University of the Pacific, for his contributions to the field of education. Dr. DeRicco retired in June of 1987 after 24 years of service to the District.

In 1987, Dr. L. H. Horton, Jr., was appointed Superintendent/President. During his tenure, he oversaw the construction of a new central plant and Child Development Center, and initiated the development of a new learning center in Tracy. Horton, the longest serving President to date, retired from the College in 1999 after 13 years of service.

The millennium brought a new Superintendent/President, Edward O. Gould, Ed.D, in February 2000 to guide the College into the 21st century. He had served as Vice Chancellor of Student Services at the California Community College Chancellor's Office where he developed and recommended policy for the state's 107 colleges and 71 districts in the areas of student services and services to special populations. He was also former Superintendent/President of Victor Valley College and Monterey Peninsula College.

Dr. Raúl Rodríguez joined Delta College in fall 2002 as the next Superintendent/President. Under Dr. Rodríguez, a \$250 million bond initiative was passed by the voters in 2004. The bond is being used to upgrade and expand the Stockton campus, establish and extend

education centers in the College's service area. In 2009, the College completed renovation of the outdoor athletic facilities and completed construction of the Lawrence and Alma DeRicco Student Services Building which consolidated all student services functions including the Offices of Admissions and Records, Financial Aid and Veterans Services, Guidance and Counseling, and Assessment Services under one roof. The building serves as the students' gateway to Delta College. In 2010, the College reopened the newly renovated Goleman Library, a state-of-the-art learning resources center. After eight years, Rodríguez left to assume a new position as Chancellor of the Rancho Santiago Community College District.

In the spring of 2011, after a national search, the Board of Trustees named Dr. Jeff Marsee as the College's ninth Superintendent/President. Dr. Marsee began serving the College on May 1, 2011. He served until February 2012 when Assistant Superintendent/Vice President of Instruction, Dr. Kathleen Hart was appointed Acting Superintendent/President. Eight months later, in October 2012, she was permanently appointed as the tenth Superintendent/President of the College.

The fall of 2014 saw demolition of Cunningham Center and the dedication of a new state of the art Science and Mathematics facility. The new building includes a Math/Science Learning Center, science labs, classrooms, lecture halls, and faculty offices. The Shima expansion project was also completed to house the diesel/heavy equipment shops and classrooms. It was dedicated in the spring of 2015.

Originally opened in 1994, the Delta College Child Development Center was rededicated in the spring of 2016 in memory of longtime Dean and Career Technical Education advocate, Dr. Hazel Hill. Dr. Hill was instrumental in the development and construction of the center and for many years worked tirelessly in support of students pursuing their educational goals. She had served the College and community for over 35 years as faculty, Division Chairperson, and Dean of Career Technical Education.

Delta College is proud to serve an area that launched California into world prominence, for the Mother Lode era brought about the great western expansion.

About the College

Stockton Campus

Two key decisions were endorsed by the Board of Trustees in the fall of 1968. Though the campus would be one of the largest in California, the student population would be divided into five instructional centers. The design of each center included a central open courtyard, snack bar, and study lounge. The goal was to encourage students and faculty to develop activities

according to their own interests, creating a healthy campus-wide diversity. The decision reflected the philosophy that all knowledge, as with all work, is worthwhile and not susceptible to "status." Students with greatly different backgrounds and career interests—from musicians to mechanics—meet in the hallways, lounges, and classrooms, and learn to respect each other's values.

A committee had initially recommended the names of deceased, local historical figures who had made significant contributions to education and the trustees agreed. Cunningham Center and a portion of Budd Center were the first buildings to open in 1973, with classes in physical education, life science, public safety and services, computer science, and printing.

Cunningham Center, named after Sheriff Thomas Cunningham of the late 1800s, opened in June 1973. The center included Clever Planetarium, the only planetarium in San Joaquin Valley.

Holt Center—named after Benjamin Holt, the developer of the belt tread tractor which helped make large-scale farming possible in this region's peat soil—opened in the summer of 1974 and contained instruction in music, machine technology, heating and air conditioning, welding, and engineering. Today, the center houses the only community college electron microscopy lab in the nation.

Shima Center honors the memory of George Shima who left Japan in the 1880s after failing his university examinations and founded an agricultural empire on land reclaimed from Delta bog. Shima Center, which opened during the spring semester of 1975, offers instruction in agriculture, natural resources, broadcasting, visual arts, early childhood education, business, and photography. The L.H. Horton, Jr. Art Gallery provides exhibits and displays in creative artistry.

Budd and Locke Centers were completed in the fall of 1976, except for the vocational shops in Budd which had opened in conjunction with Cunningham Center in 1973. James Budd was the only Stocktonian to become Governor of California. The center houses physical education, athletics, and dance facilities, including the 3,000-seat Blanchard Gymnasium and June Fergusson Pool.

Locke Center honors Dr. Dean Jewett Locke, founder of Lockeford and the Lockeford School District. The center includes instruction in nursing, business, and drama. It includes Tillie Lewis Theatre as well as the 100-seat Alfred H. Muller Studio Theatre, named in 2013 to honor the highly-regarded former Professor of Drama. Adjacent to Locke Center is Warren Atherton Auditorium which seats over 1,400 guests and serves as a focal point for arts in the region.

Three other campus buildings also bear historical names: Goleman Library is named after Dr. Irving Goleman, a former Delta teacher and thinker who believed no one was truly educated without experiencing the liberal arts; Danner Hall honors Helen Danner, Associate Dean of Students at Delta until her death in 1970. Danner Hall contains the Academic Computing Center, main cafeteria, The Student Chef, a student-run gourmet restaurant, and College Bookstore. The perimeter roads connecting the different campus areas are named in honor of Dr. Burke Bradley, Burke Bradley Road in the south part of the campus and Burke Bradley Drive in the north. Dr. Bradley was President of Stockton College in 1956 and presided over the separation of San Joaquin Delta College from the Stockton Unified School District in 1963.

The first new building to be erected since the initial campus construction of the 1970s was the Child Development Center. Opened in 1994, during the presidency of Dr. L.H. Horton, Jr., it provides students and staff with a much needed place for child care and also serves the instructional Child Development program as a laboratory. The Delta College Child Development Center was rededicated in spring of 2016 in memory of longtime Dean and Career Technical Education advocate, Dr. Hazel Hill. Dr. Hill was instrumental in the development and construction of the center and for many years worked tirelessly in support of students pursuing their educational goals. She had served the College and community for over 35 years as faculty, Division Chairperson, and Dean of Career Technical Education.

The Center for Microscopy and Allied Sciences was opened in fall of 2003 to house the long-established program in Electron Microscopy. The only program of its kind in the western United States, it trains technicians in the preparation of materials and operation of various electron microscopes.

Following the successful passage of a \$250 million bond measure in 2004, planning for improvements of the Stockton Campus began. In 2009, the College established the Lawrence and Alma DeRicco Student Services Building—a one-stop shop for critical student services functions—to honor the former president for his many years of service and commitment to San Joaquin Delta College. Dr. DeRicco is considered one of the "Founding Fathers" of the College. In addition, the state-of-the-art, Olympic caliber Merv Smith Track Complex was dedicated in early 2010 to honor the former track coach and long-time faculty member. Coach Smith led Delta teams to numerous championships from 1970-1997. In 2010, the College rededicated the newly refurbished Goleman Library, followed by the dedication of the Bucky Layland Softball Complex and Lee Belarmino Sr. District Data Center in 2011.

The spring of 2014 saw the opening of the College's new Science and Mathematics building. The building includes over 70,000 square feet of office, classroom, and laboratory space wrapped around a central service core with dry labs on the first floor, wet biology labs on the second, and chemistry labs on the third. The building is equipped with the latest equipment and technology expected in a modern college science facility. In addition, the College opened newly remodeled diesel and heavy equipment technology shops and classrooms in Shima Center. As the spring semester moved forward, regular visitors to the campus began to see Cunningham Center, the former science and mathematics building beginning to be prepared for demolition. By the end of 2014, the building had been razed and a new open plaza area was developed.

Other improvements enabled by the Measure L Bond program include the following: a new greenhouse; restroom modernization and ADA compliance; a 40,000 square foot consolidated Data Center for information technology services; safety and seating improvements in the Tillie Lewis Theater and Atherton Auditorium; and state-of-the-art facilities for student athletes and physical education classes, including a world-class track facility, new turf for the softball, baseball, and football fields, a new soccer pitch, and improved parking facilities.

South Campus at Mountain House

South Campus at Mountain House (SCMH) encompasses approximately 126 acres north of Interstate 205 at the boundary of San Joaquin and Alameda Counties. Located at the southwest corner of Mountain House, the educational center is the result of a decade of efforts to expand service offerings to Tracy, Manteca, and South County students. Initial plans for SCMH called for an initial build-out of 85,000 square feet. The Board of Trustees postponed full-scale development of a large educational facility and built 25 modular buildings that freed up bond money for other projects on the Stockton campus and the future purchase or lease of property in the District's northern region. The modular buildings have a useful shelf life of only 20 years, and the District needs to provide a more permanent structure that will serve the residents of the region more effectively. SCMH has been targeted in the educational master planning process to feature three signature programs: renewable energy, computer science, and engineering.

Manteca Center

Bordered by Highway 99 on the east and Lathrop Road on the south, the Manteca Center features two portable classrooms, a barn, and crop land that provide training to students in agriculture, agribusiness, and animal husbandry. With agriculture remaining one of the major economic industries of the region, the Center's importance for local training cannot be overstated.

Plans are underway to build a new barn, refurbish the classroom building, and improve the security of the campus with new fencing.

North County and Calaveras

In 2006, the District purchased a 140-acre parcel north of Lodi, near Galt (Liberty Road and N. Lower Sacramento Road parcels). District officials and consultants have completed a due diligence review of the site for use as an educational center. Delta has also requested proposals for other sites in the North County region that can accommodate 35,000 to 50,000 square feet of instructional space. The District recognizes the population growth within the region and its emerging labor market needs and, thus, seeks to develop an educational center in the North County area. The District is also increasing its limited course offerings in the Foothills region through collaboration with Calaveras County's local high school district and Columbia College. Most of these students take courses online or commute to the Stockton campus. However, limited courses can be held in the evening in Calaveras Unified School District classrooms and through new dual enrollment opportunities.

Notice

San Joaquin Delta Community College District reserves the right to discontinue, postpone, combine courses, change instructors, and correct errors and omissions. Courses, course content, class times, and units are subject to change depending upon enrollment and the requirements of the District. All enrollment fees are subject to change.

It is the responsibility of the student to become familiar with the contents of the College Catalog, including the rules, regulations, and requirements presented herein. Students are eligible for an associate's degree upon completion of all requirements as stated in either:

- the College Catalog at the time of their acceptance into a degree program (to the extent possible within the current roster of course offerings); or
- the College Catalog in effect at the time of their graduation.

ACADEMIC CALENDAR

June 2017

June 12	Summer Inter-Session Begins
June 19	First day to file an application for Summer 2017 graduation with A.A. Degree, A.S. Degree, and/or Certificate

July 2017

July 4	Independence Day - Holiday
July 13	Last day to file an application for Summer 2017 graduation with A.A. Degree, A.S. Degree, and/or Certificate

August 2017

August 4	Summer Inter-Session Ends
August 21	Fall Classes Begin
August 21- September 1	Late Registration and Adjustments

September 2017

September 4	Labor Day - Holiday
September 11	First day to file an application for Fall 2017 graduation with A.A. Degree, A.S. Degree, and/or Certificate

October 2017

October 13	Last day to file an application for Fall 2017 graduation with A.A. Degree, A.S. Degree, and/or Certificate
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November 2017

November 10	Veterans Day - Holiday
November 23-26	Thanksgiving Recess - Holiday

December 2017

December 8-15	Final Examinations
December 15	Fall Semester Ends

January 2018

January 15	Martin Luther King Day - Holiday
January 22	Spring Classes Begin
January 22- February 2	Late Registration and Adjustments

February 2018

February 5	First day to file an application for Spring 2018 graduation with A.A. Degree, A.S. Degree, and/or Certificate
February 16	Lincoln's Birthday - Holiday Observed
February 19	Presidents' Day - Holiday Observed

March 2018

March 5	Last day to file an Application for Spring 2018 graduation with A.A. Degree, A.S. Degree, and/or Certificate
March 19-25	Spring Recess
March 30	Cesar Chavez Day - Holiday

May 2018

May 17-24	Final Examinations
May 24	Spring Semester Ends
May 24	Commencement
May 28	Memorial Day - Holiday

It is the individual student's responsibility to drop classes or withdraw from the College. For Refund Dates, Last Day to Drop without a "W," and Last Day to Drop with a "W," please refer to the Schedule of Classes.

*Dates and Information are Subject to Change

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ENROLLMENT RELATED SERVICES

Admission Regulations and Requirements

San Joaquin Delta College is a public, two-year community college that awards credit which may be transferred to four-year colleges and universities. The College offers the Associate in Arts and Associate in Science degrees, career and technical curriculum, and Certificates of Achievement through courses offered at the Stockton campus, the South Campus at Mountain House, online, and at other locations throughout the district.

San Joaquin Delta College admits the following students:

- High school graduates;
- California High School Proficiency Certificate holders;
- General Education Development (GED) Certificate holders;
- High school students eligible to attend under the College Early Start Program; or
- Other persons 18 years of age or older who can benefit from training offered on the basis of:
 1. a standardized test,
 2. other measurement instruments, or other verifiable indicators (i.e., recommendations from professional educators or counselors who are not employed or affiliated with San Joaquin Delta College).

The Student Success & Support Program was designed to increase California Community College student access and success through the provision of core matriculation services, including assessment/placement, orientation, counseling, and other education planning services, with the goal of providing students with the support services necessary to assist them in achieving their education goal and identified course of study. Completion of admission requirements does not constitute registration. Students applying to San Joaquin Delta College, regardless of location, are required to:

1. Complete an online Application for Admission at www.deltacollege.edu or by visiting the E-Services Lab located on the first floor of the DeRicco Student Services Building, Room 149.
2. Submit official transcripts from any U.S. regionally-accredited college or university previously attended. Transcripts should be forwarded directly by that institution to the Office of Admissions and Records.
3. Complete mandatory skills assessment. All new Delta College students enrolling for the first time will be required to participate in skills assessment prior to registration. Assessment will include English composition, reading, and mathematics skills. Students will be provided with their assessment results.

Exemptions from the Assessment Requirement:

- a. Students with earned college degrees from a U.S. regionally-accredited college or university are waived from the assessment requirement as verified by official transcript.
- b. Some courses are specifically exempt from assessment and are identified in the College Catalog and Schedule of Classes.
- c. Students intending to register in only Level I basic skills courses in reading, writing, or mathematics do not need to complete the assessment test. These courses are identified in the College Catalog and Schedule of Classes.
- d. A waiver from the assessment requirement may be granted to a student who wishes to enroll in a single course with no prerequisite. A student may extend this waiver for another course provided that the previous course to which a waiver had been applied was passed with a grade of "C" or better. The continuance of this waiver shall not exempt the student from other skill or course requisites.
- e. Completed intermediate algebra and college-level English composition at a regionally-accredited college or university in the U.S. with a grade of "C" or better as verified by official transcripts.

4. Attend and complete a New Student Group Advising session (NSGA).

5. Meet with a counselor and develop a Student Education Plan (SEP).

Placement Requirements: All students are subject to the following placement requirements in reading and English as a Second Language (ESL):

- a. Reading: Students who score Level I in reading may enroll in any course designated as exempt from assessment. Students who score Level I in reading and wish to enroll in a course with a prerequisite of reading Level II must achieve Level II before they will be allowed to enroll.
- b. ESL: Students who possess a U.S. high school diploma may either use the ESL assessment or the reading section of the academic assessment and the reading requirements described above.

Admitted Student: An admitted student is defined as one who has:

- a. filed a complete application for admission and has been admitted to the College; and,
- b. has been assessed, submitted equivalent scores, or qualified for an assessment waiver.

Matriculated Student: A matriculated student is defined as one who has:

- a. filed a complete application for admission and has been admitted to the College;

- b. declared a goal of A.A./A.S., transfer, or certificate;
- c. been assessed, submitted equivalent scores, or qualified for an assessment waiver;
- d. been admitted to a specific program, (i.e., nursing, police academy); or
- e. met or is meeting the Level II reading standard; and, continually remained under the declared A.A./A.S., transfer, or certificate goal.

Responsibility for satisfying requirements: Each student must assume complete responsibility for:

1. Compliance with the instructions and regulations set forth in the College Catalog;
2. Selecting all the courses which will permit achievement of individual educational objectives; and
3. satisfying prerequisites for any course which the student plans to take.

The College, likewise, assumes no responsibility for misinterpretation by students of policies and procedures as presented in the College Catalog. Counselors and advisors are available and willing to assist students in planning their programs. Any questions concerning information contained in this section of the College Catalog should be referred to the Office of the Vice President of Student Services.

Admission Requirements for F-1 International Students

International admission information is available online at isp.deltacollege.edu or from the International Student Program located in the DeRicco Student Services Building, (209) 954-5151, ext. 6126. A completed International Student Online Application for Admission and required documents must be submitted by April 1 for summer intersession attendance for students with English proficiency; (summer enrollment is not available for ESL students); May 1 for fall semester attendance for students with English proficiency; June 15 for ESL students; or October 1 for spring semester attendance for students with English proficiency; and November 15 for ESL students. Please refer to the International Student Admission Requirements page available online at isp.deltacollege.edu for complete details.

Admissions requirements include:

1. Completion of the online International Student Application for Admission;
2. Official transcripts, leaving certificate, or diploma from secondary schools (required) and from any college or university attended (optional);
3. Proof of English language proficiency demonstrated by either a TOEFL or IELTS score report, OR the applicant may choose to take the College's ESL placement test on arrival;
4. Proof of financial support;
5. A one-page autobiographical essay;

6. \$50 application processing fee; and
7. Transfer students must also submit a copy of their current I-20, a copy of the F-1 Visa, passport identification page, and I-94, and official transcripts from the all schools attended in the United States.

Admission Regulations for College Early Start Program

Students who are currently enrolled in high school and are recommended by their principal (for college level courses only) may be considered for the College Early Start Program. The College Early Start Program allows students to enroll in courses for college credit only. Each school district must determine whether high school credit will be granted for classes completed for college credit at San Joaquin Delta College. *All students must meet San Joaquin Delta College's admissions, academic assessment, and course prerequisite requirements.* College Early Start students may not enroll in remedial or developmental education courses. Registration is limited to 11.0 units maximum during a regular semester.

The enrollment of high school students in physical education classes is limited to five percent of all the students enrolled. Therefore, high school students should plan to enroll in physical education classes at their respective high school. Only students officially enrolled during the registration cycle, *before* classes begin, will be allowed to attend physical education classes. Under no circumstances will College Early Start students be permitted to register for any physical education course once the term begins.

In order to participate in the College Early Start Program, students must complete the following steps:

1. Complete the online Application for Admission - Applications may be completed online at www.deltacollege.edu, by visiting the E-Services Lab located on the first floor of the DeRicco Student Services Building, Room 149, or at the South Campus at Mountain House. Please check the Delta College web site for hours of operation.
2. Complete a College Early Start Enrollment Form - Students applying to attend Delta College through the College Early Start Program (high school students who are not graduates), must also provide a College Early Start Enrollment Form at the time of application. Signatures of the parent or legal guardian and the high school principal are required. Home-schooled students must also provide a current Private School Affidavit. A College Early Start Enrollment Form and accompanying documentation is required for each term for which the student intends to enroll. *For counseling, financial aid and course prerequisite purposes, it is highly recommended that the student submit a high school transcript.*

3. Complete the Assessment Placement. This assessment measures a student's skill in reading, English, and mathematics application and computation. The test is not timed and takes approximately 90 minutes to complete. A student cannot fail the assessment. A "one-course waiver" is available to students who decide to enroll in only one course with no prerequisites. A student may subsequently enroll in one course per term provided the previous course to which the waiver applied was passed with a grade of "C" or better. For more information, please check the Delta College web site.
4. Attend a New Student Group Advising session - All new and prospective students are encouraged to attend a New Student Group Advising session. These sessions will provide students with the following: general new student information, financial aid information, campus resources, review of assessment test and what the results mean, registration information, and a first semester course list. College Early Start students should work closely with their high school counselor to select appropriate courses (College level ONLY). A student who works closely with the counselor can make significant progress towards both a high school diploma and college degree at the same time.
5. Register for Courses(s) - To view your registration date and time, or to register for classes, use the online registration system. To ensure that College Early Start students do not displace regularly admitted students, enrollment of students admitted under this program is limited to the last day of priority registration, unless the student is enrolled in a middle college high school as described in Education Code Section 11300.
6. For additional information and important term dates, please refer to the online Registration Calendar.

Special Admissions Programs

Separate from admission to the College, the following programs require a special application:

1. Apprenticeship
2. Basic Peace Officer Academy
3. Nursing
4. Psychiatric Technician
5. Psychiatric Technology
6. Radiological Technician
7. Speech Language Pathology Assistant

To be assured consideration for special programs, all applicants must submit separate applications to the programs (including supporting documents as required). Each of the programs has separate qualifying admission requirements. Applicants must have fulfilled any prerequisite course or experience requirements as prescribed by the different programs prior to admission.

The College advises prospective applicants to supply complete and accurate information on the application for admission. Further, applicants must submit authentic and official documents when requested. Failure to provide complete, accurate, and authentic application documents may result in the denial of admission to the program.

Applicants who have received confirmation of the receipt of their application will be sent notification of acceptance or denial of admission to the program.

Admission to the program will be canceled automatically if the applicant accepted by the College for a given term fails to enroll for that term or fails to satisfactorily complete any work in progress. If the applicant wishes to re-apply at a later date, a new application to the program must be filed and new requirements, if any, must be satisfied.

Apprenticeship

San Joaquin Delta College has been affiliated with apprenticeship programs providing Related and Supplemental Instruction (RSI) for over 50 years. Programs are designed as part of the State of California Division of Apprenticeship Standards approved Joint Apprenticeship Training Committee (JATC) Apprenticeship Program Standards for the particular apprenticeship occupation. The apprenticeship courses are available only to apprentices who are indentured to a particular apprenticeship committee/program as governed by the State of California Division of Apprenticeship Standards, JATC, and the California Community College Chancellor's Office.

Apprenticeship programs are designed so that an employer hires the apprentice, and the apprentice increases his/her occupational skills and knowledge while receiving On-The-Job Training (OJT). The apprentice attends specific apprenticeship courses (RSI) provided or administered by Delta College. The apprentice's educational program and OJT are under the direction of the Apprenticeship Committee. Apprenticeship programs vary from two to five years in length.

San Joaquin Delta College provides or administers apprenticeship classes (RSI) for the following programs:

Automotive and Related Trades

- Caterpillar Dealer Service Technician
- Automotive Diesel
- Auto Body and Repair

Electrical Trades

- Inside Wireman

Department of Water Resources

- Hydro-Electric Plant Operator
- Hydro-Electric Plant Mechanic

- Hydro-Electric Plant Electrician
- Utility Craftworker

Machinist

- Machinist
- Mold and Tool Maker

Plumbers and Pipe Fitters

- Plumbers

Unilateral Programs

- Maintenance Electrician
- Maintenance Machinist
- Maintenance Mechanic

The apprentice will be recommended for a Journey Level Certificate issued by the State of California Division of Apprenticeship Standards when the apprentice completes the required apprenticeship courses, meets the minimum number of OJT hours working with an approved employer, and has positive employer evaluations. Some apprenticeship programs also offer national certification and recognition for reaching journey level. Many of the apprentices awarded Journey Level Certificates also earn a Delta College Certificate or Associate in Science degree.

Admissions Procedures

Admissions procedures are specified in the Program Standards for each specific state approved apprenticeship program. More information on the specific admission procedures can be obtained by contacting the Applied Science, Business and Technology Division, Holt 140 or by calling (209) 954-5230.

Application Procedure

Anyone interested in applying for an apprenticeship program must apply to the particular apprenticeship program and not San Joaquin Delta College. The apprentice is hired by an employer affiliated with one of the state approved programs prior to attending any apprenticeship classes. Information about apprenticeship programs in the College's service area is available in the Applied Science, Business, and Technology Division, Holt 140 or by calling (209) 954-5230.

Selection Procedure

The selection of the apprentice is made by the apprenticeship committee or employer according to the state approved Apprenticeship Program Standards. Once the applicant is selected to an apprenticeship program, the apprentice is required to complete a Delta College Application for Admission.

For Additional Information

Interested individuals may contact the State of California Division of Apprenticeship Standards or the Delta College Applied Science, Business, and Technology Division for more information.

Division of Apprenticeship Standards
2424 Arden Way, Suite 160
Sacramento, CA 95825-2488
(916) 263-0718

Applied Science, Business, and Technology Division
5151 Pacific Avenue, Holt 140
Stockton, CA 95207-6370
(209) 954-5230

Nursing, Associate in Science Degree

San Joaquin Delta College offers a state and nationally accredited Associate Degree in Nursing (ADN) program. The ADN program prepares graduates to take the National Council Licensing Examination for Registered Nurses (NCLEX-RN). Once licensed, graduates are qualified to provide patient care in a variety of health care settings within the Registered Nurse scope of practice. The program is approved by the California Board of Registered Nursing and accredited by the Accreditation Commission for Education in Nursing, 3343 Peach Tree Road, NE, Suite 850, Atlanta, GA 30326.

Dameron Hospital, Doctor's Hospital Manteca, Kaiser Manteca Medical Center, Kaiser Modesto Medical Center, Lodi Memorial Hospital, St. Joseph's Medical Center, San Joaquin General Hospital, and Sutter Tracy Community Hospital are among the local health care facilities providing clinical training sites as well as assistance in clinical instruction.

Admission Information

Students are admitted each fall and spring semester. Prior to ADN Program admission, the student must:

- Be admitted to San Joaquin Delta College, in good standing with no holds on college records, and have an "active application" on file
- Satisfy the College assessment placement test requirements
- Complete all prerequisite courses with a "C" or better grade
- Have a minimum cumulative college grade point average (GPA) of 2.50 in science prerequisites and a 2.50 GPA in the non-science prerequisite courses
- Complete the Assessment Technologies Institute (ATI) Test of Essential Academic Skills (TEAS) Exam with a composite score of 62 or better (best score of first three attempts is accepted)
- Complete the online ADN Program Application
- Complete all health and safety requirements necessary for admission to hospital clinical practice sites (details will be provided in the ADN Admissions Packet) including:
 1. Background Clearance for criminal history
 2. Physical Exam
 3. Immunizations, TB, and Hepatitis and other disease screening
 4. Drug Screen

5. Current CPR card - The only CPR accepted is American Heart Association BLS [Basic Life Support] for Healthcare Providers; (Online CPR courses are not accepted)
6. Professional Liability Insurance
7. Possess a valid Social Security number (SSN) as required by the State Board of Registered Nursing for licensure

Information concerning requirements and the application process for the Associate Degree Nursing Program (Registered Nurse), may be obtained online at nursing.deltacollege.edu. Other immunizations and lab tests may be required by the different hospitals. Further information regarding medical screening will be provided upon acceptance into the program.

Prerequisite Course Information

Nursing program prerequisites include:
Math 092G or higher; and

Non-Science Prerequisites:

- ENG 001A (Reading and Composition); or
- ENG 001B (Written Communications II, A Critical Introduction to Literature); or
- ENG 001D (Advanced Composition and Critical Thinking); and
- FCS 019/HS 019 (Human Development) and

Science Prerequisites:

- BIOL 022 (Introduction to Medical Microbiology); or
- BIOL 023 (General Microbiology); and
- BIOL 031 (Human Anatomy); and
- BIOL 032 (Human Physiology)

The science courses have a prerequisite of CHEM 003A which requires completion of MATH 090 with a grade of "C" or better. Applicants who have completed at least two semesters of high school chemistry with a grade of "C" or better, and Algebra 1 in high school, with a grade of "C" or better, may have met these requirements. Please see a College counselor to discuss this option. Please note that the MATH 092S or higher requirement will not be used in computation of science or non-science GPA.

Application Procedure

The online application will be available during posted submission dates at the Health Sciences/ADN Program web site. Applications are accepted twice a year for entry into fall semester and for entry into spring semester. Submission dates will be posted online at nursing.deltacollege.edu.

Prerequisite courses completed at United States regionally accredited colleges and universities other than San Joaquin Delta College must be comparable in theory and laboratory content, and hours of instruction to Delta College courses. Official transcripts for prerequisite courses taken at other colleges and

universities must be submitted in the event that the student meets minimum qualifications and is asked to provide supporting documentation to the online application. Course descriptions must come from the specific catalog year in which the course was taken. Course descriptions may be obtained from the College Catalog or web site where the course was taken or may be obtained at www.collegesource.org. Determination of course equivalency will be completed by the San Joaquin Delta College Evaluations Office.

If the student is asked to submit an Official Transcript, it must be presented in an official, sealed envelope from the originating college or university.

Selection Procedure

The selection procedure will be a blended combination of multi-criteria screening (90%) and random selection (10%) process. Details are available online, nursing.deltacollege.edu

Additional Information

Information regarding program requirements and courses is available online at nursing.deltacollege.edu

Recognition is given for prior education and training. Psychiatric Technicians (PT) and Licensed Vocational Nurses (LVN) who hold a current license may be eligible to enter the program as an advanced placement candidate. Information for PT-ADN and LVN-ADN is available online at nursing.deltacollege.edu. Students requesting advanced placement must apply during one of the regular online application periods. Up to fifteen units of credit may be earned through challenge examinations. Refer to "Credit by Examination" in this catalog.

Students requesting transfer to the ADN program from other registered nursing programs must apply during one of the regular online application periods and choose the "transfer" option. Submission of official transcripts from the college where course work was completed along with detailed nursing course syllabi, course outlines, objectives, and catalog descriptions and a recommendation letter from the former Dean/Director is also required. Applications for transfer will be reviewed by the nursing program faculty and Director of Nursing for determination of acceptance and placement in the program. Information for transfer is available online at nursing.deltacollege.edu. The San Joaquin Delta College ADN program policy does not permit transfers from students who have not successfully completed courses in prior programs.

Basic Peace Officer Academy

The Basic Peace Officer Academy is certified by the Commission on Peace Officer Standards and Training (P.O.S.T.) to present a basic course to peace officers and pre-service students who qualify for program admission. The course includes fundamental principles,

procedures and techniques of law enforcement, including: Criminal Law, Patrol Procedures, Cultural Diversity, Investigative Procedures, Report Writing, Defensive Tactics, Firearms, Leadership, Ethics, Community Policing, Police Vehicle Operations, Traffic Enforcement, Accident Investigation, Handling Emotional Situations and First Aid/CPR. The course also includes a challenging physical requirement that will prepare students for police service.

The Delta College POST Academy works in partnership with police and sheriff's departments throughout an eight county region. This academy is designed for basic entry-level training for the student preparing for a position as a Reserve Officer, Peace officers, and Deputy Sheriff's assigned to patrol.

Upon successful completion of the Academy, students receive a Certificate of Achievement from Delta College and certification by the California Department of Justice, Commission on Peace Officers Standards and Training.

Entrance Requirements

Information concerning acceptance to the Basic Peace Officer Academy may be obtained from the Public Safety Program Office, (209) 954-5151 ext. 5258.

The following checklists will assist candidates to make their final decision to apply for enrollment in the POST Basic Academy program and to seek employment as a law enforcement professional.

1. Be a high school graduate, pass the General Education Development Test (GED) indicating high school graduation level, pass the California High School Proficiency Examination, or have attained a two-year, four-year, or advanced degree from an accredited college or university. The high school shall be either a United States public school, an accredited United States Department of Defense high school, or an accredited or approved public or non-public high school. Any accreditation or approval required by this paragraph shall be from a state or local government educational agency using local or state government approved accreditation, licensing, registration, or other approval standards, a regional accrediting association, an accrediting association recognized by the Secretary of the United States Department of Education, an accrediting association holding full membership in the National Council for Private School Accreditation (NCPSA), an organization holding full membership in the Commission on International and Trans-Regional Accreditation (CITA), an organization holding full membership in the Council for American Private Education (CAPE), or an accrediting association recognized by the National Federation of Non-public School State Accrediting Associations (NFSSAA). (Government Code section 1031(e))
2. Be at least 18 years of age. Minimum age of 18 years old for peace officer employment.

3. No felony convictions or certain misdemeanor convictions that are disqualifying for employment as a peace officer [GC§1029; PC§12021(c); 18 USC 922(d)(9)] in the State of California. No restrictions for legal possession of firearms.
4. Successfully pass the multiple choice POST Entry-Level Law Enforcement Test Battery examination with a total T-Score of 42.0 or higher.
5. Must possess a valid driver's license
6. Successfully pass AJ 94 Peace Officer Academy Orientation course.
7. Must obtain a medical release from a licensed medical doctor, upon acceptance to the program in order to participate in the rigorous training program.
8. Must submit a Department of Justice Firearms clearance form and sign a felony Disclaimer upon acceptance to the program.

Acceptance Procedure

Any person who meets the minimum qualifications to qualify for participation in the POST Academy Program (minimum qualifications) must complete and pass the multiple choice POST Entry-Level Law Enforcement Test Battery examination scored by POST with a total T-Score of 42.0 or better.

Step 1:

Meet the minimum qualifications and pass the entry level examination. Testing is offered through the Public Safety Training Center once a month March through September. Seating for the test is limited. For those who submit applications for the test, be sure to arrive 20 minutes early so the check-in process can be completed before 9 a.m. and the test can be started on time. Once the test begins, no one will be admitted. If you miss the test, you will need to watch the website for the posting of the application for the next test and submit it for the new test. Your old form will not guarantee you a place at the next test.

If you take the POST Entry-Level Law Enforcement Test Battery Examination at another facility, mail a copy of your T-Score notification to the address below. Information for registering for the AJ 094 Peace Officer Academy Orientation will be mailed to you when available.

Step 2:

Successful applicants who pass the POST Entry-Level Law Enforcement Test Battery with a total T-Score of 42.0 or better must apply to San Joaquin Delta College as a student by completing the online application for Admission to the College or be a current student in good standing with the college.

Step 3:

Applicants who meet the minimum qualifications and pass the entry level law enforcement examination must register in the prerequisite course, AJ 094 Peace Officer Academy Orientation, and successfully pass AJ 094 before being accepted to attend the Basic Peace Officer Academy. Information for registering into AJ 094 is

provided in the T-score results letter to applicants who successfully pass the entrance examination. AJ 094 meets mid-November through mid-December.

Step 4:

All forms and information needed to participate in the POST Academy program, will be supplied during the AJ 094 orientation class.

Selection Procedure

Acceptance into AJ 094 Peace Officer Academy Orientation and the January Basic Academy will be on a "First Come, First Serve Basis." Applicants who earn a passing score on the examination will be provided with the information for registering into AJ 094. If the number of applicants who earn a passing score of POST multiple choice examination exceeds the maximum class size, a class wait list of 20 applicants will be accepted.

Applicants who place himself/herself on the class list will be admitted only with the permission of the Academy Coordinator. The applicants on the Class Wait List must attend the first class meeting and be present to be considered for movement from the Class Wait List to the class; however, it will be at the discretion of the Academy Coordinator to determine if you can be added to the AJ 094 orientation class.

For Additional Information

Information regarding the P.O.S.T. Academy is available from the Public Safety Training Center. Mail inquiries may be sent to:

San Joaquin Delta College

Attn: Public Safety Training Center (P.O.S.T Academy)

5151 Pacific Avenue

Stockton, CA 95207

(209) 954-5151 extension 5258

Psychiatric Technician/Technology

The Psychiatric Technician Program is a 51-week educational program approved by the State of California's Board of Vocational Nursing and Psychiatric Technicians (BVNPT). The program prepares graduates to take the State of California licensing examination. Licensed Psychiatric Technicians are qualified to practice in a variety of health care settings and provide patient care within the parameters of the Psychiatric Technician scope of practice. A San Joaquin Delta College certificate is awarded upon successful completion of the program.

The Associate Degree in Psychiatric Technology provides an additional level of advanced education, which broadens the scope of educational and career opportunities for graduates of the Psychiatric Technician Program. Students who complete one of the general education patterns (AA-GE, CSU-GE, or IGETC-CSU) can qualify for an Associate in Science Degree in Psychiatric Technology upon completion of the Psychiatric Technician Program.

St. Joseph's Behavioral Health Center, Kaiser Manteca Medical Center, California Health Care Facility, San Joaquin General Hospital, and San Joaquin County Mental Health Services are among the local health care facilities providing clinical learning sites.

Admission Information

Additional information concerning requirements for the Psychiatric Technician Program may be obtained online at nursing.deltacollege.edu.

Students are admitted once a year. Prior to admission to the Psychiatric Technician Program, the student must:

- Be admitted to San Joaquin Delta College, in good standing with no holds on college records
- Satisfy the College assessment placement test requirements
- Complete all prerequisite courses with a "C" or better grade
- Complete the online Psychiatric Technician Program Application
- Possess a valid Social Security number (SSN) as required by the state Board of Vocational Nurses & Psychiatric Technicians for licensure
- Have a High School Diploma or GED

Prerequisite Course Information

Psychiatric Technician Program prerequisites include:

- HS 036 (Medical Terminology and Speech); and,
- HS/FCS 019 (Human Development); and,
- PSYCH 001 (Introduction to Psychology); and,
- BIOL 031 (Human Anatomy); or
- BIOL 033 (Anatomy and Physiology)*

*This course requires completion of CHEM 003A which requires completion of MATH 90 with a grade of "C" or better. Applicants who have completed at least two semesters of high school chemistry with a grade of "C" or better, and Algebra 1 in high school, with a grade of "C" or better, may have met these requirements. Please see a College counselor to discuss this option.

Application Procedure

Candidates must be admitted to San Joaquin Delta College or submit a College Application for Admission online at www.deltacollege.edu prior to submitting the online application to the Psychiatric Technician program.

Candidates must be:

18 years of age

A high school graduate* OR possess any one of the following:

- Official General Education Development (GED) certification (in official, sealed envelope); or,
- Official California High School Proficiency (CHSP) certificate (in official, sealed envelope); or,

All candidates must satisfy the College assessment placement test requirements.

Candidates must complete all prerequisite courses (or equivalent) with a grade of "C" or higher AND demonstrate a minimum cumulative grade point average of 2.5 for program prerequisite courses. All prerequisite

courses must be completed prior to submitting an online application to the program.

Prerequisite courses completed at United States regionally accredited colleges or universities other than San Joaquin Delta College must be comparable in theory and laboratory content, and hours of instruction to San Joaquin Delta College courses. Official transcripts for prerequisite courses taken at colleges other than San Joaquin Delta College must be submitted with the application along with course descriptions and outlines for these courses. Course comparability will be determined by the College evaluators. A grade of "C" AND a minimal cumulative grade point average of 2.5 is required for these courses.

Applications are online and are usually accepted once a year. Submission dates will be posted online, nursing.deltacollege.edu. Students admitted to the program are required to attend classes during the spring, summer, and fall terms.

Selection Procedure

Students are admitted by random selection from the pool of qualified candidates.

Health, Safety and Background Clearance Requirements

Health and safety requirements necessary for admission to hospital clinical practice sites (details will be provided in the PT Admissions Packet) include:

- Background Clearance for criminal history
- Physical Exam
- Immunizations, TB, and Hepatitis and other disease screening
- Drug Screen
- Current CPR card. The only CPR accepted is American Heart Association BLS [Basic Life Support] for Healthcare Providers. (Online CPR courses are not accepted)
- Professional Liability Insurance
- LiveScan fingerprint clearance through FBI and DOJ

For Additional Information

Information regarding program requirements, application process, and selection procedures is available online at nursing.deltacollege.edu. Other immunizations and lab tests may be required by the different hospitals and clinical sites. Further information regarding medical screening will be provided upon acceptance into the program.

Recognition is given for prior education and training. A Licensed Vocational Nurse from an accredited institution may be eligible to enter the program as an advanced placement student. LVN-PT applications will be available online at nursing.deltacollege.edu. Program requirements and procedures may change. Please see SJDC Health Sciences web site for the most current information.

Students requesting transfer to the PT program from other Psychiatric Technician Programs are directed to apply online during one of the regular application periods and select the "transfer" option. Official transcripts of course work completed in other programs in addition to detailed course syllabi, course outlines and objectives as well as a recommendation letter from the former Dean/Director must be submitted for determination of acceptance and placement into the program. San Joaquin Delta College Psychiatric Technician Program policies do not allow transfers from students who have failed or been dismissed from other Psychiatric Technician programs.

Radiological Technician

Radiological Technician is a 24-month program offered by San Joaquin General Hospital and accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago, Illinois 60606-3182, (312) 704-5300; mail@jrcert.org. Completion of the program allows graduates to take the state and national examinations for certification and registration in Radiologic Technology. A 40-hour per week training schedule is maintained. Classes begin summer of each year.

Admission Procedure

Information concerning requirements for the Radiological Technician Program may be obtained online at www.deltacollege.edu/div/hs/radihome.html. Applications are made available for download in December each year. Or they may be requested in January from the Program Director, John Job at (209) 468-6233 or via email at jjob@sjgh.org.

Admission requirements include: 1) satisfactory completion of program prerequisite courses; 2) completion of health and safety requirements including a medical exam, immunizations, malpractice insurance, and professional level (AHA) CPR; 3) documentation that the candidate is 18 years of age or older by July of the year of application; 4) Background screening; and 5) any additional requirements identified by the training facilities. Admission is not guaranteed.

Prerequisite Course Information

Prerequisite courses must be complete at the time of submission of the application. All courses must be completed with a grade of "C" or better AND the cumulative prerequisite grade point average (GPA) must be 2.5 or higher.

Prerequisite courses utilized in the GPA calculation include:

- BIOL 031 - Human Anatomy
- BIOL 032* - Human Physiology
- HS 036 - Medical Terminology and Speech
- CS 011 - Fundamentals of Computer Science
- ENG 001A - Reading and Composition
- MATH 092S - Intermediate Algebra (STEM)

- PSYCH 001 - Introduction to Psychology or SOCIO 001A - Introduction to Sociology

*Prerequisite courses to BIOL 032 include MATH 090 and CHEM 003A.

Prerequisite Verification Procedure

1. Candidates must apply directly to the School of Radiologic Technology. Those accepted into the program must subsequently apply and be admitted to Delta College.
2. Candidates must provide documentation of high school completion or equivalency by one of the following:
 - official high school transcript (in an official, sealed envelope);
 - official GED certificate (in an official, sealed envelope); or,
 - official High School Proficiency Exam certificate (in an official, sealed envelope).

All certificates or transcripts must be submitted in envelopes sealed at the originating institutions and submitted with the application. Foreign transcripts are not accepted.

3. Applicants must have completed the seven prerequisite core classes listed plus an Associate degree or higher or the seven prerequisite core classes plus three additional general education classes to satisfy the San Joaquin Delta College's general education component. These must be completed prior to applying to the program. Currently, these may include:
 - American Institutions
 - Humanities
 - Public Speaking
4. Candidates must complete all prerequisite courses (or equivalent) with a grade of "C" or better and obtain a cumulative prerequisite GPA of 2.5 or greater. See "Prerequisite Course Information." All prerequisites must be complete at the time of submission of the application.

Prerequisite courses completed at other United States regionally accredited colleges or universities must be equivalent to Delta College courses. Final equivalency determinations will be made by San Joaquin Delta College Evaluations Department. Contact the following for equivalency determinations:

Evaluations Department
DeRicco Student Services Building
San Joaquin Delta College
5151 Pacific Avenue
Stockton, CA 95207

A copy any transcript evaluation should be attached to the application.
5. Applications are accepted only during the annual application period beginning in January of each year. Please consult the program website for the most current application window and program information.

Classes begin mid August every year. Students attend classes throughout the summer, fall, and spring semesters.

6. Beginning with the July 2013 class, candidates will be randomly selected from a pool of applicants who meet scoring criteria established by the program. Criteria are based on a combination of grades in prerequisite courses and a prior knowledge test score. See the information regarding application requirements
www.deltacollege.edu/div/hs/radiohome.html.

Selection Procedure

A maximum of 12 students are selected each year utilizing a random selection process of qualified candidates. Information regarding the date and time of the drawing is provided to qualified candidates by the program director.

Those selected for provisional entry to the program will be required to attend a one-day orientation session and to complete 24 hours of observation in a radiology setting PRIOR to official entry to the program. The 24 hours of observation may be waived for students having documented equivalent experience. Examples of equivalent experience may be:

- prior volunteer work or observation in a radiology or patient setting;
- HS 039 Survey of Health Careers course; or,
- relative training or work experience in a health care field.

Note: the above admission requirements and selection procedures are valid for the current selection period only. They are subject to change in subsequent years.

Background Clearance

Hospital regulations require radiologic technology students to obtain background clearance for criminal history prior to placement in the clinical area. Upon implementation of this policy, candidates who cannot obtain clearance will not be accepted into the program due to inability to meet clinical objectives. Detailed information will be provided to candidates including screening criteria upon implementation of this policy. Potential candidates are encouraged to review the criteria currently in effect for the Radiological Technician program available at
www.deltacollege.edu/div/hs/radiohome.html prior to submitting a Prerequisite Verification to the program.

Additional Information

Applications for the Radiological Technician program are made available in December each year at
www.deltacollege.edu/div/hs/radiohome.html or may be requested from the Program Director in January. The request must be in writing and include a stamped, self-addressed envelope. Address request to:

John Job, Program Director
School of Radiologic Technology
San Joaquin General Hospital

P. O. Box 1020
Stockton, CA 95201

The School of Radiologic Technology will not discriminate against any candidates because of age, race, creed, color, political affiliation, sex, physical handicap, or national origin. Candidates should be aware, however, that the occupation of radiology technologist requires a considerable amount of lifting, bending, and the operation of heavy equipment. Physical status and mental capabilities must be such that the candidate can perform all the duties of a radiologic technologist, which include, but are not limited to: the ability to participate in patient-technologist communication; give verbal commands; lift objects well over 25 pounds, bend; transfer patients from gurney or wheel chair to table; perform mathematical calculations; interpret written material; and, perform hand/eye coordinated maneuvers.

Transfer Credit

Transfer credit for radiologic technology courses from other accredited institutions will be evaluated on an individual basis to determine equivalency. Transfers are accepted on a space available basis. Requests for transfer and information should be directed to the Program Director at the address above or (209) 468-6233.

Medical Information

Students entering the program will be required to complete a tuberculosis skin test and verification of vaccine or titers for rubella, rubeola, mumps, poliomyelitis, tetanus, diphtheria, and varicella prior to beginning clinical training. Hepatitis B immunization is also highly recommended. Other immunizations and lab tests may be required by the different hospitals. Further information regarding medical screening will be provided upon acceptance into the program.

Program policies and procedures may change at any time. Please consult the SJDC Health Sciences Division, Radiological Technician program web site for the most current information.

Speech Language Pathology Assistant

The Speech Language Pathology Assistant program curriculum prepares graduates to work under the supervision of a licensed Speech Language Pathologist at special education sites, community agencies, health care facilities, and private clinics. Students will be trained to assist in the speech and language rehabilitation of communication disordered children and adults. The Speech Language Pathology Assistant Associate in Science degree program is approved by the State of California Speech Language Pathology and Audiology and Hearing Aid Dispensers (SLPAHAD) Board. Students are prepared to practice according to the American Speech, Language, and Hearing Association (ASHA) scope of practice for Speech Language Pathology Assistants. The Associate in

Science (AS) degree will be awarded upon completion of all required courses with a grade of C or better. Costs associated with health screenings, immunizations, fingerprinting, and felony disclaimers required for public safety and public health is the responsibility of the student participating in the program. Contact the Health Sciences Division for detailed information.

Admission Information

The student must:

- Be admitted to San Joaquin Delta College, in good standing with no holds on college records
- Be at least 17 years of age
- Satisfy the Delta College assessment placement test requirements
- Satisfactory completion of program prerequisite courses
- Complete all health and safety requirements necessary for admission to clinical practice sites (details will be provided in the SLPA Admissions Packet) including:
 1. Background Clearance for criminal history
 2. Physical Exam
 3. Immunizations, TB, and Hepatitis and other disease screening
 4. Drug Screen
 5. Professional Liability Insurance
 6. Any additional requirements identified by the training facilities

Prerequisite Course Information

Speech Language Pathology Assistant, AS Degree prerequisites include:

- COMM DIS 001A (Introduction to Communication Disorders); and,
- HS/FCS 019 (Human Development); and,
- ENG 001A (Reading and Composition)

Application Procedure

The online application will be available during posted submission dates at the Health Sciences/SLPA Program web site: slpa.deltacollege.edu.

Applications are accepted once each year in the fall for Advanced Placement entry into the SLPA program for the spring semester and once each year in the spring for entry into the SLPA AS degree Program for the following fall semester.

Selection Procedure

All applicants who meet the admission criteria will be admitted. Because of limited space to place students in community programs for clinical practicum, some restrictions may exist.

Program procedures and policies may change at any time. Please consult the SJDC Health Sciences Division/SLPA Program web site for the most current information.

Information regarding SLPA program requirements and courses is available online at: slpa.deltacollege.edu.

Students who have completed a BA/BS in Communication Sciences and Disorders may be eligible to enter the program as an Advanced Placement candidate. Please see information and instructions at slpa.deltacollege.edu. Other BA/BS degree students are not eligible for this option and must complete all requirements for the SLPA Associate in Science Degree.

Residency Determination

Legal Requirement - California State law requires that each student enrolled in or applying for admission to a California Community College provide such information and evidence as deemed necessary by the Governing Board to determine his/her residence classification. Residency classifications are:

1. A legal resident of California.
2. A non-resident student who pays the out-of-state fees.
3. An international student who has complied with special admission procedures.

Rules on Residency - Adults 19 Years of Age and Older—A student 19 years of age or older may establish California residency if he/she meets the following criteria:

1. **Burden** - The burden is on the student to demonstrate clearly physical presence in California, intent to establish California residence, and financial independence.
2. **Intent** -
 - a. Intent to make California the permanent home may be manifested in many ways.
 - b. Objective manifestations of intent to establish California residency include but are not limited to:
 1. Owning residential property or continuous occupancy of rented or leased property in California.
 2. Registering to vote and voting in California.
 3. Licensing from California for professional practice.
 4. Active membership in service or social clubs.
 5. Payment of California State Income Tax as a resident.
 6. Showing California as home address on Federal Income Tax form (permissible if CA State Income Tax return was not filed).
 7. Possessing a valid California motor vehicle registration.
 8. Possessing a valid California driver's license.
 9. Maintaining permanent military address or home of record in California while in the armed forces.
 10. Establishing and maintaining active California bank accounts.
 11. Being the petitioner for a divorce in California.

3. **One-Year Waiting Period** - The one-year residence period which a student must meet to be classified as a resident does not begin until the student is both present in California and has manifested clear intent to become a California resident.
4. **Physical Presence** -
 - a. A person capable of establishing residence in California must be physically present in California for one year prior to the residence determination date to be classified as a resident student.
 - b. Physical presence within the state solely for educational purposes does not constitute establishment of California residence regardless of the length of that presence.
5. **Residence** - In order to establish a residence, it is necessary that there be a union of act and intent. To establish residence, a person capable of establishing residence in California must couple his or her physical presence in California with objective evidence that the physical presence is with the intent to make California the permanent home.
6. **Residence Determination Date** - "Residence determination date" is the day immediately preceding the opening day of instruction of the quarter, semester, or other session as set by the District Governing Board during which the student proposes to attend college.

Assessment Requirements

The purpose of academic assessment at San Joaquin Delta College is to ensure that the educational experiences of students are productive and rewarding. The College recognizes that it is important for students to become involved in courses for which they are prepared. By measuring existing academic skills, assessment evaluations will direct students to courses that will help them to achieve their goals and ambitions. Students who have completed an assessment but have misplaced their results or have alternative test results from other institutions should contact the Academic Assessment Center.

All assessments used at Delta College adhere to SB 1456 requirements as expressed in the Student Success and Support Program standards. Assessment results place students in an academic level in reading, writing, and mathematics. Assessment evaluations are offered during the day and on a continuous basis throughout the year. Please refer to the current catalog for information about English, ESL, Math, and Reading Assessment Levels and Course Sequencing.

An English as a Second Language (ESL) assessment is required to enroll in ESL courses. Students who speak English as a second language and have a high school diploma or equivalency may elect to take the ESL Assessment or they can opt to take the Assessment Placement.

Students may retake their initial assessments. Refer to the Academic Assessment Center website for retake information.

Exemptions from Assessment

There are a number of ways to qualify for an exemption from assessment. Please note, however, that some courses and/or programs may have specific skill prerequisites where exemptions do not apply and assessment is required. See the Academic Assessment Center website for information regarding exemptions.

Registration

- Registration must be completed via the Internet at: www.deltacollege.edu. An Application for Admission and assessment testing, if required, must be completed prior to registration. A student may register for classes on or after their assigned registration date and time. Please refer to the Registration Calendar for important information regarding term dates and deadlines. It is the student's responsibility to provide documentation (official transcripts) to show proof of having met a course prerequisite when the prerequisite course was taken at another regionally accredited school within the United States. To avoid delays in registering for class, transcripts must be submitted a minimum of 10 working days in advance of the student's assigned registration date and time.
- Past due fees and administrative/academic holds prevent enrollment and must be cleared prior to registration.

Fees are due at the time of registration. Register online at: www.deltacollege.edu

- STEP 1:** From the home page select "Register" at the top of the page.
- STEP 2:** Read all information and instructions carefully. To protect confidentiality, each student should conduct their own registration.
- STEP 3:** LOG-IN: Enter your Delta ID number using nine digits and your birth date or PIN (Personal Identification Number) using six digits.
- STEP 4:** Click the Log-In button. If the password is correct, the registration screen will appear.
- STEP 5:** Select the term for which you are registering.
- STEP 6:** To add/register for a course: Select the "Open Class Schedule" link located under "Add Course" to view the available class listings and add to a course or wait list.
- You may also enter the five digit course code in the box located next to "Add Course Code." Course codes may be found in the Class Listing Section of the Schedule. If the class is full and space is still available on the wait list, click the "put me on the waiting list" button located at the top of the page. (If the wait list is full, please make another selection).
- To drop a course:** Click the drop button next to the course you wish to drop.
- To view your Grades/Academic History:** Select the "Records" tab from within the Student System and click on "Academic History."
- STEP 7:** Log-Out: Click the log-out button.
- Be sure to complete this step when using shared/public computers in order to protect your confidentiality.

Registering for Online Courses

Students may register on their assigned date and time by using the Online Registration system at www.deltacollege.edu. Students on the waiting list for online courses should email the instructor to request enrollment in the course one week prior to the beginning of the course and include; their full name, student ID number, the five-digit course code number and confirm their request to be moved from the wait list to full enrollment. Students who are not on the waiting list, but are interested in adding an online course, should email the instructor the day the class begins to request permission to be added or attend the optional class meeting (if offered). Refer to the Schedule of Classes to determine if there is an optional on-campus meeting.

Instructor email addresses are the first letter of the instructor's first name and the instructor's last name followed by @deltacollege.edu. For example: Ron Smith's e-mail address would be rsmith@deltacollege.edu. Questions concerning instructor email addresses should be directed to the Division Office.

Helpful Hints for Successful Registration

- Students must be admitted to the College and meet all assessment and/or course prerequisite requirements prior to registering for classes.
- An assigned registration date and time is required to use the online registration system, except during open enrollment and after the term has begun. To view your assigned registration date and time, click on "Register" at the top of the home page and log in to Online Registration.
- Computers are available for student use in the E-Services Lab located on the first floor of the DeRicco Student Services Building.
- To protect confidentiality, each student should conduct their own registration.
- Be prepared for registration. A first choice may be full. Therefore, select two or three more sections of the same course before registering.
- All fees due to the College as well as any administrative and/or academic holds that prevent enrollment must be cleared prior to registering for class. To check holds, log into Online Registration, select the "Records" tab and review the information noted under the Student Holds section. Students must contact the office(s) noted in the Student Holds section in order to clear a hold placed on their records by that office.
- It is the student's responsibility to provide documentation (official transcripts) to show proof of having met a course prerequisite when the prerequisite course was taken at another regionally accredited school within the United States. To avoid delays in registering for class, transcripts must be submitted a minimum of 10 working days in advance of the student's assigned registration date and time.

- The registration system will prevent time conflicts, multiple registrations in the same course, and placement on multiple waiting lists.
- Maximum unit enrollment prior to the beginning of the fall or spring semester is **18 units and 9 units** during the summer term. Additional units may be added after the term begins. Student enrollment is limited to 24 units per semester for fall and spring and 12 units for summer.
- After a student's assigned registration date and time has passed, courses may be ADDED or DROPPED as often as necessary while the registration system is available.
- After registration has been completed, fee billing and payment notifications are sent to the student's Delta College email account. A follow-up email will be sent prior to the opening day of the term reminding students to log in to Online Registration in order to view/print their class schedule. Students should check their email at least once a week throughout the term and more frequently during registration.

Registration Priority

Priority registration will be provided for students who enroll in a community college for the purpose of: degree or certificate attainment, transfer to a four-year college or university, and/or career advancement. Students who have enrolled in courses at the College prior to the Fall 2014 semester are not required to complete orientation, assessment, or to develop a student education plan for the purposes of priority registration. Priority registration dates and times are based on Board Policy 5055, in accordance with the Student Success & Support Program.

Registration priority shall be provided to students in the order of the groups listed below:

Group One: Special Populations

The following groups who have completed orientation, assessment, and developed student education plans shall have equal priority:

- Identified active or former members of the Armed Forces of the United States (DD214).
- Any member or former member of the State Military Reserve.
- Foster youth who are currently in foster care or emancipated foster youth up to 25 years of age (SB) 906.
- Homeless youth up to 25 years of age (AB) 801.
- Students who are eligible and currently receiving services through:
 - California Work Opportunity and Responsibility to Kids (CalWORKs);
 - Disability Support Programs and Services (DSPS)
 - Extended Opportunity Programs and Services (EOPS).

Group Two: Special Populations

The following groups who have completed orientation, assessment, and developed student education plans shall have equal priority

- Student athletes that have been verified by the College to be eligible (in season) or capable of being eligible (out of season) for a competitive sport;
- Students receiving services through the International Students Program; and,
- Elected Associated Student Body Government Officers.

Group Three:

The following groups shall be assigned priority based on the points earned for each of the weighted variables listed below. Students with the most points will receive higher priority assignments.

- Continuing students not on academic or progress probation.
- Probationary students who have for two consecutive terms (excluding summer): Successfully completed for each term, more than 50 percent of their courses with a term GPA of at least a 2.0 as defined in Education Code Section 55031.
- Middle College high school students.
- First-time Delta students who have completed orientation, assessment, and development of student education plans.

Weighted Variables:

1. Number of Delta A.A.-Appropriate Units Completed:

01 - 15 = +5	46 - 75 = +30
16 - 30 = +10	76 - 90 = +20
31 - 45 = +20	91 - 99 = +10
2. Highest Degree Earned or Eligible for:
 Lower Priority will be assigned to students who have received a B.A./B.S. or higher degree at any accredited institution:
 B.A./B.S., Degree = -5
3. Cumulative Grade Point Average (GPA):
 GPA multiplied by a pre-determined factor established by the Matriculation and Student Access Committee, with a maximum point value of 40:
 GPA of 0.00 to 0.99 multiplied by 1
 GPA of 1.00 to 1.99 multiplied by 2
 GPA of 2.00 to 2.99 multiplied by 5
 GPA of 3.00 to 4.00 multiplied by 10
4. Verified Veteran Dependent = +5

Group Four:

The following groups who have not completed orientation, assessment and development of student education plans shall have equal priority:

- First-time Delta students.
- Returning Delta students who have not been in attendance for two consecutive primary terms (excluding summer).
- Concurrently-enrolled high school students: This does not include students attending a middle college high school if the student is seeking to enroll in a community college course that is required for the student's middle college high school program.

Registration priority is lost at the first registration opportunity after a student:

- Is placed on academic or progress probation or any combination thereof for two consecutive terms, as defined in Education Code Section 55031
- Has earned one hundred (100) or more degree-applicable units at this District.
- For the purposes of this procedure:
 - A unit is earned when a student receives a grade of A, A-, B+, B, B-, C+, C, D, or P as defined in Education Code Section 55023.
 - The 100 unit limit does not include units for non-degree applicable English as a Second Language or basic skills courses as defined in Education Code.
 - Section 55000(i) or special classes as defined in Education Code Section 55000.
 - Units earned through credit by examination, advanced placement, International Baccalaureate or CLEP are exempt from the 100 unit limitation.

For more information you may contact Admissions and Records at: sjdchelp@deltacollege.edu
maittp:sjdchelp@deltacollege.edu

Enrollment Fees

Active Military Fees - Active military personnel and their dependents living within the District may have non-resident tuition fees waived for classes taken during their stay in California.

California Resident Fees - Students who are California residents are charged \$46 per unit, regardless of the number of units. Enrollment fee assistance is available to qualified students through the Office of Financial Aid. Enrollment fees are subject to change.*

Credit by Examination - Credit may be earned by a student who satisfactorily passes authorized examinations. Cost is \$46 per unit. The student may initiate a petition to challenge for credit by examination with advisement by a counselor. Credit by examination is not available during the summer intersession.

Non-Resident Fees - Non-resident students, those from other states or foreign countries, are charged \$234 per unit for tuition, plus \$46 per unit enrollment fee. Fees are due at the time of registration. United States citizens, permanent residents, undocumented persons, and persons holding a visa which allows for the establishment of residency may qualify for an Exemption from Non-Resident Tuition if the following criteria is met:

1. Three years of attendance in a California high school (documentation required).
2. Graduation from a California high school or award of GED or CHSP in California (documentation required).
3. Application to INS for change of status (if applicable).

Student Activity Fee - The Student Activity Fee is a \$10.00 optional fee charged at the time of registration during the fall and spring terms. Funds collected are used to support campus life activities, clubs, and scholarships. Students that pay the fee are eligible receive a student identification card or validation sticker, apply for scholarships funded by the Associated Students of Delta College (ASDC), access the ASDC Food Pantry, and receive discounts at local businesses and on-campus events. Requests to waive the fee must be received by the deadline posted in the online Schedule of Classes. Questions regarding the Student Activity Fee should be directed to the Student Activities Office at (209) 954-5100.

Payment of Fees - Enrollment fees are due at the time of registration. Payments may be made by credit card (MasterCard or Visa only) through the online Registration System, in-person at the Cashier's Office located in the Horton Administration Building, Room 102A or mailed to the Admissions and Records Office. If payment is mailed, please allow additional time for receipt and processing of payment. Access to student records and further registration is prohibited until all fees owed to the District are paid in full.

Refund Policy for Fees - Enrollment fees and/or tuition, laboratory fees, and supply fees are refundable only:

1. if the class has been cancelled by the College, subsequent to registration;
2. if the registration has been accepted in error and the class is full;
3. if the class time was changed subsequent to registration; or,
4. if the class was dropped by the student no later than the refund deadline date and the Refund Request form was submitted to the Admissions Office by the deadline date.

Refund Procedure - Complete a Refund Request form available online from the Admissions, Records, and Registration page. Select the "Registration" tab and then "Refund Policy and Procedure" to view important

information about the refund process and to download the form. Forms are also available at the Admissions and Records service window, located in the DeRicco Student Services Building. In order to qualify for a refund of fees, courses must be dropped and the Refund Request form received no later than the published deadline date. Refunds will be processed in approximately 4 -5 weeks and are subject to a \$10 processing fee.

Student Representation Fee - Students are assessed a fee of \$1 per semester which is used to provide support for student governmental affairs representation. A student may refuse to pay the fee for religious, political, financial, or moral reasons and shall submit such refusal in writing.

Parking Fees

Parking permits are required to park in regular parking stalls on campus except in marked 30-minute visitor spaces. There are two parking permit options which can be used: semester permits which may be purchased in the Bookstore and displayed on the vehicle's front windshield; or, a daily permit which may be purchased from a permit machine located near the entrance of every parking lot and Mountain House parking lots and displayed on the vehicle's dashboard.

Enforcement Hours - Parking permits are required 24 hours a day Monday (12:00 a.m.) through Friday (11:59 p.m.). Parking is free on weekends, holidays, and semester breaks. All other vehicle code provisions are enforced 24 hours each day.

Notice - This is a contract. This contract limits the District's liability. Parking permits entitle the holder to the rental of space only. No bailment is created. San Joaquin Delta College District is not responsible for loss of, or damage to, the vehicle or any of its contents.

Parking Fees	Semester Fee	Summer Fee
Automobiles/Trucks	\$30	\$20
Two-wheeled Motor Vehicles	\$24	\$16
Daily dispenser permit	\$2	\$2

Semester Parking Permits - May be purchased at the College Bookstore. Please note that your Student Identification Number is required when purchasing a semester permit at the Bookstore.

Refunds - Parking permit refunds will be given only if all classes are dropped on or before the same deadlines that apply to enrollment fee refunds. It is recommended that students determine actual parking needs before purchasing a permit.

Disabled Parking - Only vehicles with state issued "DP" plates or vehicles displaying a valid Department of Motor Vehicles disabled placard properly are allowed to park in disabled parking stalls. The disabled placard or plate must belong to the driver of the vehicle or a passenger

in the vehicle and must provide DMV documentation upon request by an officer. All other vehicles will be cited and the placard may be confiscated. California Vehicle Code requires a minimum \$275 fine (subject to change) for such violations.

Evaluation Services

The Office of Admissions and Records is responsible for evaluating official transcripts from other regionally-accredited colleges located in the U.S. Transcripts are evaluated to determine the equivalency of other college course work and how the courses will be accepted at San Joaquin Delta College.

Financial Aid

DeRicco Student Services Building - (209) 954-5115

Grants, student loans, scholarships and work-study jobs are available to qualified Delta College students. Information is available from the Office of Financial Aid, Scholarships and Veterans Services, and on the web at finaid.deltacollege.edu. All students needing financial assistance while attending Delta College are urged to apply via www.fafsa.gov. Students may also apply to have registration fees waived by completing the online fee waiver at finaid.deltacollege.edu. Many scholarships are also available to Delta College students. The scholarship application deadline is March 2 of each year for the following fall and spring semesters. Transfer and non-transfer students are eligible to apply.

Eligibility: Students need to complete the Free Application for Federal Student Aid (FAFSA) to determine financial aid eligibility including grants, student loans, scholarships and work-study jobs and a California Community College Board of Governors (BOG) Fee Waiver application to determine eligibility for fee waivers.

Federal Work Study

Federal Work Study is a financial aid program which provides on-campus part-time employment and an opportunity to earn money needed to attend college. Students apply for Federal Work Study and all other types of financial assistance with the Free Application for Federal Student Aid (FAFSA). Students may apply on the web at www.fafsa.gov.

Veterans Services

DeRicco Student Services Building - (209) 954-5115

Veterans of the armed forces as well as qualifying dependents, reservists and service members in an approved training program may qualify for a variety of benefits, including veterans educational benefits and financial aid. The Office of Financial Aid, Scholarships and Veterans Services provides informational materials,

advice on available educational benefits, and guidance on the special satisfactory academic progress requirements. Students wishing to apply for veterans educational benefits must apply directly through the Office of Financial Aid, Scholarships and Veterans Services by calling or visiting during office hours.

SERVICES AND ACTIVITIES

Academic Assessment Center

DeRicco 110 - (209) 954-5151, ext. 6112

The purpose of academic assessment at San Joaquin Delta College is to ensure that the educational experiences of students are productive and rewarding. The College recognizes that it is important for students to become involved in courses for which they are prepared. By measuring existing academic skills, assessment evaluations will direct students to courses that will help them to achieve their goals and ambitions. Students who have completed an assessment but have misplaced their results or have alternative test results from other institutions should contact the Assessment Center <http://www.deltacollege.edu/dept/assess>.

Academic Teams

Delta Engineering/Engineering Technology Day

Applied Science, Business, and Technology Division - Holt 140 (209) 954-5230

This annual event is hosted by the San Joaquin Delta College Department of Engineering. The day includes drafting competitions for beginning and advanced students. Additionally, students are invited to participate in an engineering design competition or a robotics competition. The event includes a career orientation session. Awards are presented to students in a variety of categories. Participating students must attend high school in the Delta College service area.

Delta SkillsUSA

Applied Science, Business, and Technology Division - Holt 140 (209) 954-5230

The Delta College SkillsUSA Club offers regional, state, national, and international competition for Career and Technical Education (CTE) students. Students compete in CTE areas such as diesel equipment mechanics, drafting, air conditioning, machining, automotive mechanics, and many others. Students must be enrolled in a course relating to the area in which they plan to compete. They must also join SkillsUSA at the national and state levels.

Journalism and Mass Communications

Arts and Communication Division

Mass Communication students learn all aspects of the rapidly changing field of multimedia, while retaining traditional values of objective, fair, and balanced reporting as well as opinion writing across a wide variety of media platforms. Classes are appropriate for any student wishing to improve his or her abilities to communicate with a mass audience. Ethical and legal standards are examined and emphasized. Majors in the field participate in preparing news stories for

transmission on a variety of media platforms. Majors also participate in regional and state conferences of the Journalism Association of Community Colleges, the largest organization of its kind in the United States.

Livestock Judging Team

Agriculture, Science, and Mathematics Division

The San Joaquin Delta College Livestock Judging Team is nationally competitive and highly respected. Team members regularly receive university scholarships and employment opportunities. They learn livestock selection principles that are relevant to breeding and market animal selection as well as communication and decision-making skills that contribute to their educational and social development. The Livestock Judging Team attends numerous state and national competitions each year, and gains valuable insight, knowledge, and networking opportunities in the livestock industry while traveling as a team to practice and compete.

Livestock Show Team

Agriculture, Science, and Mathematics Division

The San Joaquin Delta College Livestock Show Team is designed to enhance animal husbandry skills associated with the marketing of livestock. Delta College students learn to select, feed, fit/groom and present beef cattle, sheep, and swine in a competitive market through hands-on experiences at the Delta College Farm in Manteca. Students travel and participate in livestock shows and expositions in California including the Big Fresno Fair and the Porterville Collegiate Livestock Shows. Students are also engaged in volunteering at shows in the local area. Through this class, team members gain valuable experience to develop skills needed in an educational and commercial environment.

Speech and Debate Team

Arts and Communication Division

Students who become members of the Speech and Debate Team at San Joaquin Delta College participate in supervised inter-collegiate speech and debate tournaments throughout California and the nation. Students develop their individual talents and abilities in public speaking, interpreting literature, and formal debate which they accomplish through practice, competition, and analysis of judges' critiques. Moreover, students develop a sense of team spirit and pride as they represent Delta College throughout the United States.

The Final Draft, Student Literary Magazine

Languages, Library, and Learning Resources Division

Delta College students are encouraged to submit original poetry, short fiction, essays, or artwork in

various media. Students should take submissions to Goleman Library 222, the Writing Success Center, and complete a release form. Students will be notified of acceptance in writing by **The Final Draft** staff, composed of faculty, tutors, and staff. The magazine is published at the end of the fall and spring semesters. A reading of **The Final Draft** literary works is also scheduled near the end of each semester. To serve on **The Final Draft** editorial and production staff, please inquire in the Writing Success Center, Goleman Library 222.

Athletics - Intercollegiate

San Joaquin Delta College participates in 19 intercollegiate sports, 9 women's teams and 10 men's teams. Delta College maintains a program that adheres to institutional, California Community College Athletic Association and Conference policies, and operates in an efficient and effective manner. It is the goal of the Department of Athletics to provide an environment that encourages academic and competitive success. Athletics at Delta College enhances college life, contributes to the retention of our students, and fosters pride in the college and community relations. It also successfully encourages transfer of our athletes to four-year colleges and universities.

Baseball

San Joaquin Delta College competes in the very competitive Big 8 Conference. Delta College baseball plays and practices on one of the finest facilities in Northern California, the Nick Cecchetti Field. Delta College has sent many athletes on to play at four-year institutions, earning athletic scholarships, and included in the alumni are many fine professional players. The Delta College baseball team participated in the Final Four for California Community College baseball in 2009, taking an impressive 2nd place and followed that up with a state championship in 2011. In 2014 and 2015 they won the Big 8 Championship and finished second in the state championships. The team also qualified for the final four in 2016. Delta is the only CCCAA baseball team to reach the final four in each of the last three seasons.

Basketball (Men)

Men's basketball has made eleven appearances in the Sweet 16, four appearances in the Elite Eight, two in the Final Four, and earned seven conference championships over the past 20 seasons. More importantly, well over 100 players have come through the program. Players have earned scholarships and transferred to four-year institutions with many going to NCAA Division I colleges and universities, including Washington State University, University of Oklahoma, Gonzaga University, Drake University, Idaho State University, Oregon State University, University of the Pacific, UC-Davis, UC-Santa Barbara, San Jose State University, and CSU-Sacramento.

Basketball (Women)

The Lady Mustangs have been a program to contend with since their Bay Valley Conference Title in 1997. The Delta College Women's Basketball team has been conference champions for the ten of the past fourteen seasons and has advanced to the California state Elite Eight Tournament seven of the past 12 years. In 2006, they were state runner-up and in 2014 and 2015 they made the Final Four in California. By playing basketball at Delta College students improve skills academically and athletically and have the opportunity to earn scholarships.

Cross Country (Men and Women)

Cross Country has experienced a growth spurt at Delta College in recent years. The number of participants involved in the program are on the rise and successes are mounting. The student athletes participating are experiencing quality personal achievements in their races and in the classroom. In the 2010 fall season our men's team qualified for the state tournament for the first time in ten years. In 2013 and 2015, the women qualified for the state tournament finishing 14th in 2015. The coaching staff and the athletes are very excited about their recent victories and look forward to more of the same in the upcoming seasons.

Football

Gary Barlow continues at the helm of Delta College Mustang Football. Since assuming the reins as Head Coach in 2001, Coach Barlow has led the team to many exciting finishes. The Mustangs were named conference champions four times in eight seasons, 2001 Shrine Bowl Champions, 2004 Holiday Bowl Champions, and 2008 Hawaiian Bowl Champions. They hosted the first ever ASBG Delta College Bowl game in 2010, became the Delta Togo's Bowl Champion in 2011, Silicon Valley Bowl Champions in 2012, and in 2015 they were the Gridiron Classic Bowl Champions. The team continues to sign numerous athletes to scholarships.

Golf (Men and Women)

Delta College golf teams have gone on to be league champions ten of the last twenty-four seasons. In 1990 and 1997, teams placed second at state championships and competed in the state championships in 2010. In 2008, Delta College had its first ever Women's Golf team. They enjoyed many successes under the coaching of PGA instructor, Tony Troncale. In 2013 the women's team had its first all-state player. Delta College looks forward to the continued growth of Men's and Women's Golf.

Soccer (Men)

In 2014 new Head Coach Josh Bradley lead the team to the most successful season in years and we know that the team will build off of this success. The Delta College

region has a wealth of players feeding into the College's soccer program. Many players have gone on to play at the Division I, II, and III levels, with several going on to compete at the professional level. Delta's soccer program unites a diverse population of players with varying skills and backgrounds to compete each season. The team has grown into a powerful soccer program in the Big 8 Conference. In 2016 the team began playing in a brand new turf soccer complex.

Soccer (Women)

Adrienne Sorenson recently completed her sixth season as Head Coach of women's soccer leading the program to its best season ever in 2016. The team set numerous program bests including most wins (16) and highest state finish (top 8). In the final National Soccer Coaches Association of America (NSCAA) poll the Mustangs were ranked 13th in the nation. The area is rich in soccer talent and Coach Sorenson has tapped this resource to build a powerful soccer program. The team has played in the post-season five of the last six years. Many of the women have gone on to play successfully at Division I and Division II schools including San Jose State University, CSU-East Bay, Martin Methodist College, and University of North Carolina. Players leave Delta with an appreciation of the blend of athletics and academics required to be successful players. In 2016 the team began playing in a brand new turf soccer complex.

Softball

In the 2017 season Delta Softball won the Big 8 Championships and were ranked as high as #2 in the State. Head Coach Jim Fisher was selected as the CCCAA Softball Coach of the Year in Northern California. In the past thirteen seasons, the Lady Mustangs have won conference championships six times, competed in the state tournament three times, earning 4th, 5th and 2nd place finishes. Several players have earned All-American and All-State honors. With an area rich in softball talent Delta College continues to produce quality softball teams and sends numerous players on to four-year institutions to complete their academic and athletic careers. In 2011, the team finished as the state runner-ups and in 2014 and 2015, they finished in the Elite Eight of the state championships.

Swimming/Diving (Men and Women)

In the 2017 season the men's team finished 10th in the State and the women's program finished in 20th place. Head Coach Mike Maroney has led the Delta Aquatics program since 2008, having coached at University of the Pacific for six seasons, and Hartwick College for five. In his time at Delta College, dozens of school records have been broken. Coach Maroney instills pride in the aquatics program at the college by adding and developing local talent each season. In 2015, three

swimmers were All-Americans and the women's team placed 11th in the State Championships. In 2016, both the men's and women's teams finished top 15 in the CCCAA State Championships.

Track & Field (Men and Women)

The incredible tradition of track and field that began with the coaching of Merv Smith and Raydell Barkley at Delta College continues. During their eras they turned out numerous track and field athletes many of whom are now coaches. With the completion of the new state-of-the-art track and field facilities, Delta College is regaining its prominence in northern California. In the 2014 season, the women's team was Big 8 champions and both men's and women's teams finished eighth in the state. The track facilities include the highest grade Mondo track available in the world, as used by athletes at the 2008 Beijing Summer Olympics. The track has nine Olympic-width lanes including international markings required for hosting relay meets. There are two pole vault areas, two long and triple jump pits with Mondo surfaced covers, and a Mondo surfaced high jump area. The throws arena includes four shot put rinks, separate hammer and discus throwing rinks, and a Mondo surface javelin runway. Under head coach Lauryn Jordan the program is growing and thriving.

Volleyball (Women)

The women's volleyball team has been a perennial powerhouse in California for the past 30 years, and has recorded an 80% win/loss record. In that time they have recorded first place finishes in their conference 19 times, second place six times, and third place six times. They have participated in the prestigious California state championships on 15 occasions. Under Head Coach Molly Mordaunt the program continues to flourish. In the past ten seasons, Delta College has turned out ten All-Americans. In 2013, the team finished in the Elite Eight of the state championships. As a result of participating in the volleyball program at Delta College, many players have gone on to compete at the Division I, II, and III levels including the University of the Pacific, CSU-Long Beach, University of Oregon, UNLV, Cal-Poly SLO, Weber State University, St. Mary's College, University of Wyoming, CSU-Fullerton, San Jose State University, Fordham University, and East Tennessee State University just to name a few. In 2014 and 2015 the team won the Big 8 Championships and finished in the Elite Eight in 2015.

Water Polo (Men)

In 2016 the Mustangs had one of their best season's ever finishing as Big 8 Champions, 2nd in NorCal, and 4th in the State Championships. In addition, the men's water polo teams earned conference championships in 1981, 1982, 1983, 1987, 1988, 1990, 1996, 1998, and 2002. In the 2013 season, the team finished third in northern California and fifth in the state. In 2014, they

were 4th in NorCal and 7th in the State. In 2015, the team was 3rd in NorCal and 5th in the State. Under the coaching expertise of Mike Maroney. Delta continues to turn out quality student athletes achieving honors both in the classroom and the pool.

Water Polo (Women)

In 2017 the Mustangs had their most successful season ever. Delta finished as Big 8 Champions, NorCal Champions, and 3rd in the State Championships. Head Coach Nate Varosh was named the Big 8 and NorCal Coach of the Year. The Lady Mustangs have qualified for the Northern California championships eight out of the last eleven seasons. Delta College participates in the prestigious and always strong Big 8 Conference. In only his 3rd season, Head Coach Nathan Varosh led the team to a 4th place finish in NorCal and a 7th place finish in the state championships in 2014. In 2015 the team made the Final Four in the California Community College Athletic Association State Championships.

Wrestling

Michael Sandler has been the wrestling coach at Delta College for the past 18 seasons. During that time, the Mustangs have steadily improved and earned respect throughout California. Under Coach Sandler, Delta College wrestling has had 60 state qualifiers, 25 place at the state tournaments, 24 Academic All-Americans, and four All-Americans. In 2010, Delta College had a state champion. In 2014 Delta College had three All-State wrestlers with all of them signing to continue their educations and wrestling careers at four-year colleges.

Admissions & Records Office

DeRicco Student Services Building - (209) 954-5151
The Admissions and Records Office coordinates the admission and registration process and maintains student records. Students may apply for admission, register for classes, request academic transcripts, or obtain a verification of enrollment by visiting the College web site, www.deltacollege.edu.

AFFIRM

DeRicco 151 - (209) 954-5151 ext. 6150
AFFIRM is a program designed to increase the retention and transfer rate of African American students, as well as other students of diverse ancestries to four-year colleges and universities. Emphasis is placed on the General Educational Curriculum: History, English, Science, Language, Visual and Performing Arts, and core discipline requirements. By using the Student Success and Support Program services, students will have access to counseling services, orientation, assessment, advising, and other education planning. The AFFIRM community seeks to educate our students by attending educational events to universities, cultural events, leadership opportunities and more. An essential

component to the success of the AFFIRM program is the collaboration between students, parents, faculty and staff at Delta College.

Eligibility:

- Be a full-time student with a Level II assessments in Reading and Composition, or the successful completion of English 78 A/B
- Maintain a 2.0 GPA and be in good standing with the college
- Complete an application and contract for the AFFIRM program
- Attend an interview/program orientation session
- Be planning to transfer to a four-year university
- Meet with a counselor and complete a Student Educational Plan
- Participate in scheduled AFFIRM activities
- Participate in Study Hall activities

Arts and Entertainment

Delta Center for the Arts Box Office - (209) 954-5110
L.H. Horton Jr. Art Gallery - (209) 954-5507
Facility Booking Information - (209) 954-5427

Stockton's Delta Center for the Arts at San Joaquin Delta College is a focal point for the arts in the San Joaquin Valley. The center includes:

- Fully equipped production facilities, including a costume shop, scene shop with paint frame, chorus and 'star' dressing rooms, makeup room, and box office.
- Recital Halls
- Alfred H. Muller Studio Theater
- Tillie Lewis Theater
- Warren Atherton Auditorium
- Radio/Television Media Center
- L.H. Horton Jr. Gallery

The Warren Atherton Auditorium has 1,426-seats with a 60-foot proscenium. The Tillie Lewis Theater seats 393 and features a 40-foot proscenium. Both spaces are equipped with hydraulic pit lifts and fly systems. The Muller Studio Theater is a black box space seating up to 110, with a fixed grid. All three theaters are equipped with modern lighting, sound and projection systems.

The 2,000 square-foot L.H. Horton Jr. Gallery schedules art exhibits and juried shows throughout the year. Exhibits feature established and emerging artists from throughout the region and around the world.

With over 60,000 guests annually, the Delta Center for the Arts is a hub of activity for the campus and community. Students at San Joaquin Delta College perform regularly on its stages in recitals, concerts and plays. Ensembles from the Departments of Music and Dance produce a variety of events including jazz concerts, band concerts, choral concerts and dance recitals. The Department of Drama produces a series of shows that appeal to a variety of audiences, including musicals, plays and theater for children.

In addition to supporting the College's academic programs, the Delta Center for the Arts has played host to numerous internationally acclaimed artists, cultural figures, and world leaders, including Margaret Thatcher and Shimon Perez, Secretary of State Colin Powell, and General Norman Schwarzkopf. Musically, performers representing all genres have appeared here, including the Yellow Jackets, Poncho Sanchez, Kenny Werner, the Big Phat Band and Kurt Elling, just to name a few. The Stockton Symphony calls the center home too. Throughout the year, they perform a season of Classical and Pops concerts in Atherton Auditorium.

Associated Students of Delta College (ASDC)

Shima 101D – (209) 954-5484, FAX - (209) 954-3743
The Associated Students of Delta College advocates for students and provides student life programs that represent the diversity of the college. See the web site: <https://www.deltacollege.edu/org/asdc/> <http://www.deltacollege.edu/org/asdc/>

Services

- Student Identification card photographs
- Assistance with the grievance or complaint process
- Information about campus and community resources

Bicycle Lockers

Shima 101 - (209) 954-5100
Bicycle lockers for students and staff are available through the Student Activities Office, Shima 101. A \$10.00 deposit is required.

Bookstore

Danner Hall - (209) 954-5085
The Delta College Bookstore is owned and operated by the San Joaquin Delta Community College District. In addition to textbooks required by the faculty, the Bookstore also stocks a large selection of snacks and drinks, engineering and art supplies, general school supplies, clothing, and gift items.

Textbook Rentals

The Bookstore offers textbook rentals. Students must:

- be at least 18 years of age
- possess a valid credit card that does not expire prior to the end of the current semester
- possess a valid Delta ID number
- complete the "textbook Rental Agreement" at the store or register online and pick up the order after one hour or have it shipped to their home

Textbooks that are available for rent will be noted in the price section of the bookstore website and on the shelf tag in the bookstore.

Failure to Return Rentals:

If students fail to return the Rented Materials by the Due Date (see Bookstore's website for details) or return them

in an unsalable condition, students will be charged the Replacement Fee to their credit card on file. The Replacement Fee is 75% of the retail book price. The Delta College Bookstore is not responsible for reminding students of the Rental Return Due Date. Returns will not be accepted after the Rental Return Due Date. After the Replacement Fee is paid, the book belongs to the student. The Replacement Fee is in addition to the original Rental Fee.

Damaged Rental:

If a rented textbook is deemed too damaged for re-rental (e.g., water damage, missing pages, excessive highlighting, underlining or marking, etc.), students will be charged 75% of the retail book price plus applicable sales tax.

Responsibility:

Students are responsible if a rental book is not returned by the appropriate time or is not in re-rental condition.

Visit the website at bookstore.deltacollege.edu for more information and to purchase or rent textbooks online.

Students are strongly encouraged to bring their class schedules to the Bookstore and shop early for best selection of lower-priced used books.

The Bookstore accepts VISA, MasterCard, Discover Card, American Express, and Debit Cards. **THE BOOKSTORE DOES NOT ACCEPT CHECKS.**

Book Refunds/Exchanges

Please see Bookstore's website for details.

- First week of each semester (fall and spring): Full refund according to policy.
- Second week of each semester (fall and spring): Refund only with proof of dropped class and according to policy.
- Summer session: First week only and according to policy.
- Late starting six-week classes: Return books within two (2) days of start date. No refunds on classes less than six weeks.
- Cancelled classes: Return books within five (5) business days from the cancel date.

See Book Buy-Back policy below for books purchased from previous semesters.

To receive a refund, a student must provide:

- Cash register receipt; and
- Class schedule; and
- Valid identification.

To receive a full refund, new books must be in perfect condition. Otherwise, returns are subject to a 25% reduction. The Bookstore reserves the right to make a determination on the condition of books. Workbooks, study guides, syllabi, etc., are only eligible for refunds if returned new and unused. Online bundles with software and access codes are not refundable. There is no refund on supplies, non-required books, plays, software, or electronics.

Book Buy-Back

The Bookstore's commitment to students is to buy back as many books at the end of each semester as can potentially be resold the following term, usually over 80% of book titles.

Students may sell back books any time, but the best price is offered during the last week of the term for those books that are needed the next immediate semester. Books sold back at ANY OTHER TIME will be bought back for a used book dealer and only at the "wholesale" prices listed in the dealer's catalog.

- During the last week of each semester, the Bookstore will pay up to 50% of the purchase price on all copies NEEDED on campus for the following semester – regardless where purchased.
- Books bought back are then re-priced USED and made available for the next semester at 75% of the current new price.
- Discontinued books may still have a "wholesale" value, if the edition is current. The Bookstore buys these books for a USED BOOK company that resells them to other schools. "Wholesale" values are approximately 25% of the original new price.

The following are reasons the Bookstore may not buy back certain titles:

- Faculty changes text for the following term;
- Publisher changes editions of text; or
- The Bookstore may be overstocked on a particular title.

CalWORKs Assessment

DeRicco 208 - (209) 954-5151 ext. 6335

The CalWORKs Assessment Center provides assessment services required by the San Joaquin County Human Services Agency (HSA) for individuals enrolled in the county CalWORKs program. Services are available by appointment only through referral from HSA or its contract agencies.

CalWORKs Program

DeRicco 209 – (209) 954-5151 ext. 6209

The CalWORKs Program at Delta College is run entirely by employees of the College. Program staff strive to work closely with the staff members of the San Joaquin County Human Services Agency (HSA), but are not funded through the county. The SJDC CalWORKs program helps students, who are receiving cash assistance from HSA, be successful in achieving their educational and career goals.

The mission of the CalWORKs program at Delta College is to provide CalWORKs students with quality service by assisting them in achieving their educational and life goals. This is accomplished through a dedicated, compassionate, and understanding staff.

Career Center

DeRicco 219 - (209) 954-5151, ext. 6338

The Career Transfer Center provides services for students interested in career information and/or transferring to a four-year university. Students are introduced to the career life planning process, activities and resources that support informed decision-making. Career guidance classes, computerized resources and various printed materials are also available. For more information, visit our web site, ctc.deltacollege.edu.

Career Technical Education and Workforce Development

Administration 102F - (209) 954-5093

The Office of Career Technical Education (CTE) and Workforce Development provide resources to the college's faculty to improve the delivery of concepts and to engage in state-of-the-art applications of CTE course content. The target is to increase the number of students that are successfully retained and complete CTE programs. In a similar manner, we strive to bridge and collaborate with industry and businesses to provide a high skilled workforce to our community and state.

For CTE programs information visit:

cte.deltacollege.edu or email:

cte@deltacollege.edu

Child Development Center

The Child Development Center (CDC) provides quality preschool and child care services for the eligible children of students and staff of San Joaquin Delta College. The Center provides services to children 18 months through 5 years of age, and follows the academic campus calendar.

The Center and office is located off of the Pacific Avenue entrance of the campus and may be contacted by calling (209) 954-5700. Hours of operation are set each semester to meet the needs of the majority of the parents--typically 7:30 a.m. to 4:00 p.m. Monday through Friday during the fall and spring semesters. Summer session days and hours may vary.

The Center, licensed by the State of California for 176 children, provides an environment which encourages the positive growth and development of each child, parent, student and staff member which are associated with the Center. Activities are designed to meet the social, emotional, physical, and developmental needs of each child who participates. The Center provides a learning environment for students of Delta College.

The Center is funded by the California State Department of Education. Applications for eligible families are taken and enrollment begins for the school year each fall. A waiting list is maintained for the school year. Summer session has a separate enrollment period. The dates for application periods and other information about the

Center are posted on the Child Development Center link on the Delta College web site, www.deltacollege.edu/dept/childdevctr/index.html.

Workforce Training Institute (Community Education)

Locke 107 – (209) 954-5045

See “Kids College” and “Workshops and Programs for Adults”

Counseling and Special Services

DeRicco 234 – (209) 954-5151, ext. 6276

Delta College serves a diverse population of students. People from various ethnic backgrounds, ages, and cultures attend Delta College for many different reasons. Students are focused on developing career choices along with educational plans to support those choices. Counseling staff assist with academic planning, transfer/career development, and personal counseling issues. The Student Success and Support program, within Counseling and Special Services, increases student access and success by providing new student orientation sessions, education planning and counseling/advising services. General college orientation as well as specialized guidance classes and counseling services are available to assist new and continuing students, international students, those on academic probation, student athletes, AFFIRM Program students, Puente Program students, Veterans, and English as a Second Language (ESL) students. Additional help in identifying the campus and community resources needed for college success is also available. For more information, visit the web site: www.deltacollege.edu/dept/guidance/index.html

Delta College Foundation

Administration 103 - (209) 954-5018

San Joaquin Delta College is in the business of changing lives, creating opportunities, and contributing to the economic health and well-being of the region. The College depends on private support for scholarships and assistance in purchasing equipment and supplies for its programs. The Delta College Foundation has evolved through collaborative efforts of business, academic, and scholastic interests. It raises funds for student scholarships and solicits business and industry support for academic programs. The Foundation is a tax-exempt, non-profit corporation under IRS Code 501(c)3, and develops planned giving opportunities. It accepts gifts including cash, real estate, jewelry, art, stocks, bonds, mutual funds, and life insurance policies.

Developmental Education

The purpose of Developmental Education is to provide courses that will assist students in mastering the basic skills necessary to continue their education. The instructional program includes basic, developmental and advanced courses in reading, writing, study skills, English as a Second Language (ESL), and mathematics. These courses are supported by laboratory experiences of individualized, self-paced practice. Laboratories are available with materials, media, and tutorial assistance to help students improve their skills. The laboratories include the Content Tutoring Center, the Writing Success Center, the Pathways Center, the Math/Science Learning Center, the English as a Second Language (ESL) Laboratory, and "The Zone."

Disability Support Programs and Services (DSPS)

DeRicco 234 – (209) 954-5151, ext. 6272

Disability Support Programs and Services (DSPS) offers specialized services that increase access to academic programs and services for individuals with verified disabilities. Academic accommodations are based upon individual functional and/or educational limitations as detailed in documentation by a certifying professional. Students requiring services must self-identify and are strongly encouraged to make an appointment with a DSPS counselor after applying to Delta College, completing assessment and the New Student Group Advising (NSGA) session. Students requiring accommodations for assessment or NSGA, should contact DSPS at least two days in advance.

Disability verification must be submitted for the initial intake appointment so that the DSPS counselor may determine reasonable and appropriate accommodations. Students who do not bring disability verification will be rescheduled. Accommodations will not fundamentally alter curriculum or certificate, degree, or transfer requirements. To schedule an appointment, please call or stop by DSPS. Counseling appointments are scheduled two weeks in advance. Students are advised to plan early. For more information, visit our web site at www.deltacollege.edu/dept/dsps.

Vocational Rehabilitation Services

The State Department of Rehabilitation (DOR) maintains a liaison counselor through the DSPS office on campus and provides multiple services to qualified students, including a Workability III program. These services include vocational counseling, assessment, job readiness and development and financial aid. Interested students should contact DSPS for more information and/or for a referral to meet with a DOR Counselor.

DSPS services include:

- Specialized Counseling

- Accommodated Testing
- Alternate Media
- Adaptive Computer Technology
- Classroom and Furniture Accommodations
- Equipment Loan Programs
- Interpreting and CART Services
- Learning Disabilities Services
- Learning Skills Courses (LS)
- Mobility Assistance
- Adaptive Learning - Transition to Work (ALTW) educational assistance courses
- Workability III Program/Job Placement

Distance Learning

See "Online Learning."

Pre-Employment Services

DeRicco 219 – (209) 954-5151, ext. 6219

Pre-Employment services are available to assist job seekers with their pre-employment portfolio, including master application, resume development/critique, cover letter and interview techniques. Services are designed for students completing a certificate and/or an A.A., A.S./A.A.-T, A.S.-T degree, or have recently graduated from Delta College. Written materials and resources may be obtained on a walk-in basis. For more information, visit our web site, ctc.deltacollege.edu.

English as a Second Language (ESL)

Holt 201 – (209) 954-5352

The ESL program is designed to teach students the basic structure of the spoken and written language and prepare them to communicate effectively in English for college or employment. Classes are taught day and evening, and students are placed based on their level of English skills. The ESL lab is equipped with state-of-the-art equipment. Audio visual materials, tutoring, and small group instruction are available to assist students in developing language proficiency.

Evaluation Services

DeRicco 132 – (209) 954-5151

Students that have completed courses at other U.S. regionally-accredited colleges or universities should have official transcripts forwarded to San Joaquin Delta College. To be considered official a transcript must arrive in a sealed envelope from the college at which the courses were taken, for colleges outside of California, students must also submit course descriptions or catalogs from each school at which courses were taken. Upon receipt of all official transcripts, a student may request an official evaluation. The evaluation will note degree-applicable units and course work accepted by San Joaquin Delta College. Please note: applications for degrees and certificates are given priority over the evaluation of transcripts from other colleges, which may extend the time for receiving a completed evaluation. Students are encouraged to meet with a counselor to discuss progress towards degrees and certificates and for assistance with educational planning. Students may be awarded multiple degrees and certificates at San Joaquin Delta College.

Extended Opportunity Programs and Services (EOPS)

DeRicco 234 – EOPS/CARE Counseling Center - (209) 954-5151, ext. 6296

Extended Opportunity Programs and Services (EOPS) at Delta College provides a variety of supportive

services to enhance academic success for students challenged by income, educational, and/or language barriers. Students participating in EOPS will engage in a series of activities and services designed to strengthen skills necessary to achieve personal and academic success as they complete a certificate, degree or transfer program. Students must be enrolled full-time (12 units), and meet income and educational criteria. Some Disability Support Programs and Services (DSPS) students may be eligible for a unit waiver, and should speak with an EOPS staff member. For more information, call EOPS, stop by the office, or visit the web site at www.deltacollege.edu/dept/eops. Please note: all financial services are contingent upon budget availability and program compliance.

Services

- Individualized Personal and Academic Counseling
- Priority Registration
- Assistance Purchasing Required Textbooks
- Textbook Lending Library
- Grants
- Transportation Assistance
- Outreach and Enrollment Assistance
- Academic Progress Monitoring and Intervention Services
- Transfer Advising
- College and University Tours
- Tutoring
- Workshops and Special events
- Summer Readiness Program (SRP)
- Student Success Academy (SSA)

Cooperative Agencies Resources for Education (CARE)

DeRicco 234 - (209) 954-5151, ext. 6296
CARE provides supportive services to Extended Opportunity Programs and Services (EOPS) students who are at least 18 years of age, single head of household, with dependent (custodial) children **under** the age of 14, and who receive TANF (Temporary Assistance for Needy Families) or CalWORKs cash aid. EOPS students must complete a supplemental application and provide income verification for CARE services. EOPS/CARE staff will work closely with the student, campus CalWORKs program, and the Human Services Agency to ensure student needs are met without duplication of services. Please note: all financial services are contingent upon budget availability and EOPS/CARE program compliance.

In addition to all EOPS services, CARE students receive:

- Assistance Purchasing Required Textbooks
- Grants
- Assistance Paying Child Care Costs
- Campus Meal Cards
- Campus and Community Resource Referral
- Emergency Auto Repair Reimbursement
- Special Workshops and Activities

- CARE courses designed for single parents: GUID 018A (Single Parents as Students: Co-dependency Issues); GUID 018B (Single Parents as Students: Campus and Community Resources) and GUID 018C (Single Parents as Students: Stress Reduction). Students must complete each one-unit course with a 'C' grade or higher.

EOPS Student Success Academy

EOPS Student Success Academy (SSA) is a semester long learning community designed for first-time college students who are EOPS eligible. SSA offers a personalized and educationally supportive learning experience which nurtures the skills, attitudes and behaviors that enhance students' ability to achieve academic and personal success. To learn more about EOPS or the Student Success Academy (SSA) contact EOPS at 209-954-5151, ext. 6296, stop by the office located in DeRicco 234, or visit the EOPS web site at www.deltacollege.edu/dept/eops.

EOPS Summer Readiness Program (SRP)

The EOPS Summer Readiness Program (SRP) is a six-week program designed to assist first time college students who are EOPS eligible in bridging their high school and college experiences. This learning community offers an extensive orientation to college and teaches students to successfully navigate Delta College. SRP serves students holistically by providing opportunities for academic and personal development while introducing participants to university transfer information. Students must have **fewer than** 12 college units completed, and must meet EOPS program eligibility requirements. To learn more about EOPS or the Summer Readiness Program (SRP) contact EOPS at 209-954-5151, ext. 6296, stop by the office located in DeRicco 234, or visit the EOPS web site at www.deltacollege.edu/dept/eops.

Facility Rental & Reservations

Holt 242 – (209) 954-5427 / Events@deltacollege.edu
College facilities are available for use by students and staff of Delta College for non-instructional purposes. Requests for facility use may also be made by businesses, individuals, and community agencies. All requests for use of College facilities must be submitted to the Facilities & Reservations Specialist. Outside entities are required to provide an Insurance Endorsement and a Certificate of Insurance.

Federal Work Study

DeRicco Student Services Building – (209) 954-5115
Federal Work Study is a financial aid program which provides on-campus part-time employment and an opportunity to earn money needed to attend college. Students apply for Federal Work Study and all other types of financial assistance with the Free Application for

Federal Student Aid (FAFSA). Students may apply on the web at www.fafsa.gov.

Financial Aid

DeRicco Student Services Building - (209) 954-5115

Grants, student loans, scholarships and work-study jobs are available to qualified Delta College students. Information is available from the Office of Financial Aid, Scholarships and Veterans Services, and on the web at finaid.deltacollege.edu. All students needing financial assistance while attending Delta College are urged to apply via www.fafsa.gov. Students may also apply to have registration fees waived by completing the online fee waiver at finaid.deltacollege.edu. Many scholarships are also available to Delta College students. The scholarship application deadline is March 2 of each year for the following fall and spring semesters. Transfer and non-transfer students are eligible to apply.

Eligibility: *Students need to complete the Free Application for Federal Student Aid (FAFSA) to determine financial aid eligibility including grants, student loans, scholarships and work-study jobs and a California Community College Board of Governors (BOG) Fee Waiver application to determine eligibility for fee waivers.*

Food Services

Danner Hall — (209) 954-5080

- Cafeteria — located in Danner Hall
- Vending Machines — located in Danner Hall, Locke Lounge, and the DeRicco Student Services Building as well as the courtyard areas of the Shima Building and the Holt Building.

Foster and Kinship Care Education (FKCE)

Budd 205 – 954-5836

The FKCE Program provides foster parent and kinship caregiver instruction to improve parenting skills, knowledge of the court system, and connections to on-going support. Classes emphasize understanding and skills in five essential competency categories:

- Protecting and nurturing children
- Meeting children's developmental needs and addressing developmental delays
- Supporting relationships between children and their families
- Connecting children to safe, nurturing relationships intended to last a lifetime
- Working as a member of a professional team

FKCE classes are offered for Delta College credit using FKC 096 and 099 courses. The same classes--offered for foster care licensing credit only, using the FKC 196 and 199 courses--are free of charge. FKCE classes are offered by the Humanities, Social Science, Education, Kinesiology, and Athletics Division.

International Student Program

DeRicco - (209) 954-5151, ext. 6126

Detailed admission information is available online at isp.deltacollege.edu or from the International Student Program located in the DeRicco Student Services Building. A completed International Student Online Application for Admission and required documents must be submitted by April 1 for the summer intersession, May 1 for the fall semester, and October 1 for the spring semester for students with English proficiency, and June 15 and November 15 for English as a Second Language (ESL) students. Summer admission is not available for ESL students.

Internet Courses

See "Online Learning"

Kids College - Academic and Enrichment Workshops for Children and Teens

Locke 107 - (209) 954-5015

Kids College provides educational opportunities designed to meet the needs and interests of youth. The program offers children and teens, ages 3-17, the opportunity to participate in a variety of academic and enrichment workshops on the Delta College campus in Stockton. Kids College offers a variety of workshops in the areas of Academic Skills and Creative Learning, Arts and Crafts, Computers and Photography, Cooking, Dance and Movement, Foreign Language, Music, Personal Pursuits, Science and Engineering, Sports and Fitness, and Theatre, Acting, and Performance. Workshops are designed to excite students about learning, develop meaningful skills or hobbies, and provide an opportunity to explore possible career choices. Not-for-credit workshops are offered after school, on Saturdays, during school vacations, or by special request. A new schedule of Community Education offerings, including Kids College workshops, is published each fall, spring, and summer term. For detailed information about Kids College, the current workshop schedule, and registration information, call or visiting the web site: kids.deltacollege.edu.

Lactation Room

A lactation room is available for students, faculty, and staff in the Child Development Center, Room 105.

Learning Communities

Administration 102, (209) 954-5040

Learning Communities provide opportunities for students to combine related courses and assignments. Belonging to a Learning Community fosters student retention, higher grades, and camaraderie. Learning Communities courses are noted in the San Joaquin Delta College

Learning Communities web site and Schedule of Classes.

Learning Disability Services

Learning Disability Office, DeRicco 105, (209) 954-5151, ext. 6105 and 6113

A unit of Disability Support Programs and Services (DSPS), the Learning Disability Office serves qualified students with a specific verified learning disability. Individual support services and diagnostic assessments for learning disability eligibility are available through DSPS. Support services and reasonable accommodations are determined on individual need, based on assessment test scores and/or appropriate documentation of a learning disability. For more information, interested students should contact the DSPS Office at (209) 954-5151, ext. 6272, stop by DeRicco 234, or visit the web site at: www.deltacollege.edu/dept/dsps.

Learning in Retirement - Stockton Institute for Continued Learning (SICL)

Holt 123, (209) 954-5045

The Stockton Institute for Continued Learning (SICL) is a member-run learning-in-retirement program for mature adults that holds classes on the Delta College campus and also conducts off-campus tours each semester. Membership is open to all older adults in the Delta College region. Membership dues are \$25 per semester and members may attend as many of the programs offered by SICL as they wish. This is a membership-run organization that welcomes and encourages active participation of all involved. For more information on SICL, visit the website: sicl.deltacollege.edu.

Library Services

Goleman Library, (209) 954-5139

San Joaquin Delta College Goleman Library has a collection of more than 100,000 volumes and provides a variety of learning resources to students, including reference assistance, instruction, a periodical collection, reserve books, textbooks, media materials, listening stations, and photo-copying equipment. The library has a variety of electronic online databases and offers internet access. Visit the web site at: library.deltacollege.edu.

Math/Science Learning Center

Science and Math Building 162, (209) 954-5542

Tutoring by faculty and trained tutors in a supervised setting is offered to all currently enrolled Delta College students in Mathematics or Science classes and is available free of charge. Students interested in working as tutors should contact the Math/Science Learning Center.

MESA/CCCP Math Engineering Science Achievement Community College Program

Science and Mathematics 163, (209) 954-5318

Delta College MESA/CCCP is an academic enrichment program that provides support to Delta College students for transfer to a baccalaureate-granting college or university in the areas of mathematics, engineering, and science.

General Eligibility Criteria: Low income, First Generation College students with declared majors in mathematics, engineering or science. Applications available in the MESA office.

Student Benefits:

- Designated Student Study Center
- Academic Counseling and Advising
- Transfer Assistance
- Tutoring
- Academic Excellence Workshops
- Professional Development Workshops
- Career Advising
- University and Industry Tours
- Scholarship and Internship Opportunities
- Summer Research Opportunities

Middle College High School

Holt 208, (209) 954-5790

Middle College High School, a collaboration between Lodi Unified School District and San Joaquin Delta College, is located on the Stockton campus. The high school serves academically proficient students in grades nine through twelve. Recruitment focuses on students who are historically underserved in four-year colleges, first in the family to attend college, and those who may be at risk of not performing to their potential in a large high school setting. The school's mission is to provide a supportive, academically challenging program that enables students to experience quality college preparatory high school education with direct access to college opportunities, fostering development of independence and success in college and careers. The school is a California Distinguished School and a National Blue Ribbon School.

Mini-Corps Program

Budd 316, (209) 954-5279, (209) 954-5133

Mini-Corps is a program designed for students who have Teacher Education as their goal. Paid work experience and training is available. Students are placed as teacher assistants to help migrant students improve reading and math skills primarily in grades K-3.

Mobility/Health Services

Danner 101, (209) 954-5078

Disability Support Programs and Services (DSPS) provides limited assistance to students with a verified

mobility impairment (based on individual functional limitations) who requires help navigating the campus for academic purposes. Students must meet with a DSPS counselor to request services and provide medical documentation of their disability. Appointments are scheduled two weeks in advance.

Mobility/Health Services also provides limited first aid to any individual who becomes ill or injured while on campus. If you need first aid, go immediately to the Mobility/Health Services Office located in Danner 101, or contact Campus Police at (209) 954-5000 or by using a Blue Emergency Phone located on campus.

Music Lab/Library

Arts and Communication Division

Holt 105, (209) 954-5250

The Music Lab/Library maintains a collection of audio recordings, musical scores and interactive computer software designed to meet the academic needs of each student enrolled in Music courses. In addition, there are music listening stations and computer workstations with midi keyboards, as well as individual practice rooms available for students enrolled in Music courses.

Online Learning

San Joaquin Delta College offers a number of courses and programs online, via the Internet. Numerous online course sections are scheduled each fall and spring semester, and during the summer term. Students access these courses from their own computer, and in most cases, on-campus attendance is not required. Online courses offer an attractive option to those who work full-time, have children to care for during the day, or who live too far from campus to conveniently commute. This option also appeals to those who simply like the online learning environment.

Courses that replace some in-class time with online work are termed hybrid. Fully online courses (those that do not have any on-campus meetings) are referred to as Online. The method of instruction to be used is noted in the Schedule of Classes.

Most course offerings fall in the General Education category but range from Administration of Justice to Business, Child Development to Computer Science, Horticulture to Social Science. Check the current Schedule of Classes for exact online course offerings. The schedule is available online at www.deltacollege.edu.

Advanced computer skills are not required to enroll in these courses, but students should be familiar with basic operations such as email, copy-and-paste, attaching files (to an email message, for example), using a word processor, and how to navigate through the Web using a Web browser such as Internet Explorer or Firefox.

Delta College promotes and ensures academic honesty in online courses in several ways. Courses are held in password protected online environments that provide the instructor and students with tools to share information, collaborate, discuss, and evaluate learning. Tools such as Turnitin.com are used to teach online students to value and practice academic honesty.

To increase the likelihood of a successful outcome, prospective online students should ask themselves the following questions before registering for an online course:

1. Do I have good time management skills? Can I set aside sufficient time each day to work on my online course? Am I self-motivated? (If you need the structure of a traditional course that meets on set days and times, then perhaps online learning is not for you.)
2. Do I have basic computer skills? Can I type reasonably well? Do I know how to use my word processing program? (If you're not clear on the difference between email and Google, or don't know how to copy-and-paste text between two documents, then perhaps online learning is not for you.)
3. Do I have regular access to a reliable computer with consistent connection to the Internet? (If you plan on using only other people's computers, perhaps online learning is not for you - yet.)
4. Do I learn well when reading course material, or do I learn better when hearing material? Classroom lectures, for example. (Online courses are composed primarily of written material; if you have difficulty with reading, or are more successful when there is oral presentation, then perhaps online learning is not for you.)

Here is a detailed questionnaire you may want to use to evaluate your readiness for online education.

1. How regularly will you be able to log on to the Internet to work on this course?
 - a. Only once a week.
 - b. At least twice a week.
 - c. Probably once every two weeks.
 - d. I don't know for sure.
2. Do you know how to use a web browser (Firefox or Internet Explorer) to get around the net?
 - a. Yes. I browse the net frequently.
 - b. Somewhat. I have not had much exposure to it.
 - c. I have only seen my friends use it.
 - d. No, but I am willing to learn.
3. Do you know how to use a standard word processor, such as Microsoft Word, Microsoft Works, or Word Perfect?
 - a. Yes. I am pretty comfortable with word processing.
 - b. Somewhat. I rely on the help of lab aides.
 - c. I don't know the name of my word processor.
 - d. No. I prefer my typewriter.
4. Do you have basic knowledge of email?
 - a. Yes. I have an email account.

- b. No, but I can learn.
 - c. No. I prefer "snail mail."
 - d. I don't know how email works.
5. How comfortable are you working with computers?
 - a. I find working with computers interesting.
 - b. I always seem to mess up my system's settings.
 - c. I don't like computers, but I understand that they are important today.
 - d. I am not sure how I feel about technology.
 6. How will you handle the situation if your computer (or software) breaks down at some point during the course?
 - a. I expect my instructor to be understanding and give me extensions.
 - b. I will get it fixed immediately and will use another system in the meantime.
 - c. I cannot afford for things to go wrong.
 - d. Nothing will go wrong. I have good equipment.
 7. Can you meet deadlines without needing frequent prodding?
 - a. I tend to fall behind most of the time.
 - b. I am a terrible procrastinator.
 - c. I generally meet my deadlines.
 - d. It depends on whether or not I like the project.
 8. Will you be able to set aside some time to participate in weekly online discussions?
 - a. Yes. I have budgeted time for this course.
 - b. Not weekly. I am too busy.
 - c. Maybe. My schedule varies from week to week.
 - d. I do not know for sure.
 9. How capable are you of determining main ideas and concepts when reading your college textbooks?
 - a. I am a good reader.
 - b. I prefer listening to reading about things.
 - c. I have to hear information in order to retain it.
 - d. I usually don't remember what I read.
 - e. I don't know the level of my reading skills.
 10. Are you a self-motivated, independent learner?
 - a. I find studying alone a positive challenge.
 - b. I need the stimulation of a group.
 - c. I like working alone, but I need frequent prodding.
 - d. It depends on the season.
 11. Which of the following describes your time management skills?
 - a. I need to be reminded of deadlines.
 - b. For the most part, I get things done on time.
 - c. I often miss deadlines because I am doing too much.
 - d. I am not very organized with my time.
 12. How much time do you expect to spend studying for this course?
 - a. I can dedicate about four to six hours a week for studying.
 - b. The same amount as attending and studying for a traditional course (10 hours).
 - c. Less time since the class does not meet.
 - d. I do not know what to expect.
 13. How good are you at following directions on assignments?
 - a. I like it when instructors go over homework directions orally.
 - b. I have difficulty understanding directions and frequently need clarification.
 - c. I can read and follow directions on my own.
 - d. I cannot follow directions very well.
 14. Do you know how to turn your system on and off properly?
 - a. Yes. I know my system's "shut down" process.
 - b. Yes. I just press the power switch.
 - c. No, but I am willing to learn.
 - d. I am not sure what you mean by "properly."
 15. Are you comfortable using a mouse?
 - a. Yes.
 - b. Somewhat, but I need to work on it.
 - c. No, I prefer using the keyboard.
 - d. I don't like rodents.
 16. How good are your keyboarding skills?
 - a. I am a decent typist. I type my own work.
 - b. I use the "hunt and peck" approach; it's painfully slow, but I get the job done.
 - c. I have others type my papers for a small fee. :-)
 - d. I am an awful typist!
 17. Are you comfortable with file management on your computer, such as moving files around different directories and drives, saving files, or deleting files?
 - a. Yes. I am pretty comfortable.
 - b. Somewhat. I cannot always find my files.
 - c. No, but I can get help from friends or family members.
 - d. No, but I am a quick learner.
 18. Have you used a browser to surf the net?
 - a. Yes. I spend quite a bit of time on the net.
 - b. Some. My friends seem to spend endless hours on it.
 - c. Very little, but I can learn how to use it.
 - d. I don't know what you mean by "browser."
 19. How will you handle the situation if your Internet connection is interrupted for a period of time?
 - a. I will use a lab on campus or a friend's computer.
 - b. I will wait until things get resolved.
 - c. I will ask the instructor for extensions on the assignments.
 - d. I will get very upset. I do not like it when things go wrong.
 20. How do you feel about taking a class over the Internet?
 - a. I don't have time to take a traditional class.
 - b. I am nervous about it. I am not sure it is for me.
 - c. I do not look forward to it, but I need the course.
 - d. I look forward to the experience.

Answer Key for best answer: 1. b; 2. a; 3. a; 4. a; 5. a; 6. b; 7. c; 8. a; 9. a; 10. a; 11. b; 12. b; 13. c; 14. a; 15. a; 16. a; 17. a; 18. a; 19. a; 20. d

The above 20 questions were developed by Vivian Sinou as part of a grant from the Chancellor's Office for the California Community College Distance Learning Consortium, 1999-00. It may be freely

used as long as proper acknowledgment is given.

To view a list of online classes, refer to the Schedule of Classes on the college Web site, www.deltacollege.edu.

Online Classes via the Internet

See "Online Learning"

Pathway to Law School

Budd 319, (209) 954-5262

In partnership with The State Bar of California, the Pathway to Law School Program will enhance opportunities and advancement of Delta College students interested in the legal profession and in particular for populations who have been under represented in the law. Students in the program will receive individual advisement from Delta College faculty who are lawyers with extensive background in law school and non-lawyer legal career advising.

Additionally, students will receive mentoring in the form of internships and job shadowing from local lawyers and judges, go on field trips to law schools, and receive Law School Admissions Test (LSAT) preparation and financial aid advising. Finally, credits in prescribed courses will transfer and waived application fees for admission to the participating law schools will be provided. Participating Colleges/Law schools include: University of Southern California, University of San Francisco, University of California Davis, University of California Irvine, Santa Clara University, and Loyola Marymount University, Los Angeles.

Police Services

Stockton Campus, Lourn Phelps Police Services Building, (209) 954-5000 (Voice/TDD)
Location - across from the Shima-1 parking lot

South Campus at Mountain House Police Services Sub-Station, (209) 954-5000 (Voice/TDD)
Location - Building 202 across from the Administration Office

The San Joaquin Delta College Police Department is part of a team effort to ensure students can pursue their educational interests in a safe environment. We are committed to the philosophy of community-oriented policing and providing outstanding customer service. Having your trust and confidence is paramount.

The Mission of the San Joaquin Delta College Police Department is to provide high quality, economical, and responsive services to our campus community.

Core Values

- Diversity - a commitment to engage, respect, and give equal treatment to all in our organization and community.

- Integrity - actions are based on honor to create ethical character and a positive reputation.
- Teamwork - a process built upon common focus, flexibility, cooperation, communication, and the sharing of risk, responsibility and reward.
- Innovation - demonstrating a civic entrepreneurial spirit by generating new ideas and better ways of doing things and engaging in reasonable risk.
- Respect - the obligation to treat all with civility by listening, comprehending, empathizing, and valuing opinions and perspectives.
- Responsive Customer Service - meeting needs in a timely, proactive, courteous, and responsive manner by delivering on promises and commitments beyond expectations.
- Trust - actions, information and communication are accurate, consistent, open and honest to maintain credibility.

You may contact the Police Department by using one of the following phones:

- Emergency Blue Phone (located throughout the campus) OR
- Dial ext. 5000 or 911 from any campus telephone OR
- Dial (209) 954-5000 from your cellular phone or from off campus

San Joaquin Delta College Police Officers are sworn peace officers of the State of California and are vested with full law enforcement powers and responsibilities. They meet the selection and training requirements set forth by the Commission on Peace Officers Standards and Training under State of California Penal Code Section 13510(a).

In addition, the Police Department is staffed by non-sworn P.O.S.T Certified Dispatchers, Campus Safety Officers, and Student Service Officers.

Crime Prevention & Crime Reporting

Crime Prevention

Crime Prevention is student and employee awareness of their environment and a true collaboration between law enforcement and the public. It is the willingness to look out for one another and to report suspicious activities immediately to the San Joaquin Delta College Police Department. Students and employees must be aware of their surroundings and develop a perception of what seems out of place, or out of the ordinary. Do not take chances, what may appear harmless could be serious. Fortunately, the right attitude, actions and awareness can help protect you and your belongings.

Education

One of the essential ingredients of any successful crime prevention program is an informed public. It is the intent of San Joaquin Delta College Police Department to inform students and staff, in a timely manner, of any criminal activity or security problems which may pose a reasonable threat to their physical safety. Such

information will regularly be published and distributed to students, faculty and staff through several campus publications, in house memos or bulletins and electronic mail. Another critical element of a campus safety program is education. The Police Department, in conjunction with the Student Activities Office and the Department of Counseling, sponsor programs of various topics. The Police Department's Crime Prevention Officer is available to speak at public events regarding crime prevention, or other topics as requested.

Safety Presentations

The San Joaquin Delta College Police Department provides informative Safety Presentations to all members of the Delta College community. The presentations range in time from 30 minutes to 80 minutes and can be modified to address a specific topic. Some of the most popular presentations we have done are "Surviving an Active Shooter Event", "Police Department Services", "Crime Prevention and Awareness", and "Identity Theft". Presentations are conducted year round upon request.

Crime Reporting

The San Joaquin Delta College Police Department prides itself on being community oriented in its crime prevention strategies. The most beneficial way of preventing crime is through the tips and watchful eye of an informed public. The following is how to report a crime on campus:

1. Call the Police Department by using an Emergency Blue Phone or any campus phone and dial 911 or 5000 or call 954-5000 by cellular phone or off campus phone.
2. Provide the dispatcher with what happened, where did it happen, and when did it happen
3. Provide the dispatcher with suspect information and description
4. Advise if a weapon was used or displayed
5. Location of the suspect or direction of flight
6. Advise if the suspect drove a car or bicycle or was on foot
7. Advise if there are any injuries
8. Stay on the phone until the dispatcher ends the call

It is extremely important that you give the dispatcher as much information as possible. The Dispatcher relays all of your information to the Police Officers who are "out in the field" responding to your call. It is imperative for the safety of the officers that you put as much detail into your report as possible, so they know exactly what they are responding to. Your assistance is always appreciated. The information that you provide assists in keeping San Joaquin Delta College a beautiful and safe environment for all.

Lost and Found

San Joaquin Delta College Police Department
(209) 954-5000 (Voice/TDD)

Several hundred items of found property are turned in to the Police Department each year, most of which are never claimed by their rightful owners. Property that is marked with a name, address, Delta ID number, phone number, or driver's license number can be returned to the owner if found and turned in to the Police Department. Owners of property with no identification should check with the Police Department in case it has been found.

Found property that is not claimed within ninety days will be disposed of by the Police Department in accordance with the law.

The Police Department is located on the north side of campus, across the street from the Shima 1 parking lot at the corner of District and Service Roads in the Lourn Phelps Police Services Building. Any person who loses property should check with the Police Department to see if it has been recovered.

Found Property will be released to owners between 8:00 a.m. and 10:00 p.m., seven days a week.

Victims of Crime

Students who are victims of a crime, or witness a crime being committed should contact the San Joaquin Delta College Police Department as soon as possible. Time is essential when a crime has been committed or suspicious activity is occurring. The sooner the police are notified, the quicker the response will be. Persons who believe that a crime may be occurring, or who are suspicious that something may be wrong, should contact the Police Department immediately at (209) 954-5000 (Voice/TDD). The Police Department would rather respond to an innocent situation than be notified after an actual crime has been committed. Always be on the safe side and call.

Lockouts

The San Joaquin Delta College Police Department "Lock-out" services are available at no cost to vehicle owners who are locked out of their vehicles while parked on District property.

Puente – Bridge to Success

DeRicco, (209) 954-5151, ext. 6255

Puente (Spanish for "bridge") is a national-award-winning program that has helped thousands of students to reach their dreams of college success. The program is open to all students. Emphasis is placed on the General Educational Curriculum: History, English, Science, Language, Visual and Performing Arts, and core discipline requirements. By using the Student

Success and Support Program Services, students will have access to counseling services, orientation, assessment, advising and other education planning. The Puente community seeks to educate our students by attending educational events to universities, cultural events, leadership opportunities and more. An essential component to the success of the Puente Program is the collaboration between students, parents, faculty and staff of San Joaquin Delta Community College. Puente has expanded to 58 community colleges and 33 high schools throughout California, and tens of thousands of students have been served.

Eligibility Requirements:

- Must be a new or current student with Level 2 assessment in Reading and Composition
- Maintain a 2.0 GPA and be in good standing with the college
- Complete San Joaquin Delta College's online admissions application
- Attend a Puente Information Session
- Make a one year commitment
- Meet regularly with a Puente counselor
- Participate in scheduled Puente activities and Learning Community
- Plan to transfer to a four-year college or university

Pathways Center & ESL Lab

Holt 201, (209) 954-5297 and (209) 954-5352
The Pathways Center offers free tutoring support to students enrolled in ENG 99A/B/C, ENG 78A, or ENG 78B. The ESL Lab provides free tutoring for students enrolled in any Delta College ESL course. Students interested in working as tutors for the Pathway Center or the ESL Lab should go to Holt 201 or call one of the numbers above.

Reentry Services

DeRicco 219, (209) 954-5151, ext. 6338
Reentry Services are designed to ease the transition of students returning to the academic environment after an extended absence. Services include orientation, assistance with registration, counseling referrals, student workshops, career exploration and assessment, child care information, campus and community referrals. For more information, visit our web site, ctc.deltacollege.edu.

Regional Education

Delta College provides education at various regional sites and via the Internet. Regional education offers you the opportunity to complete most or all course work beyond a Stockton campus classroom, in a local community classroom, or in your own home on your own time.

Several modes of instruction are utilized for Regional Education:

- Off Campus Courses (live off-campus)
 - Distance Learning (online classes via the Internet)
- Delta College also offers a selection of classes at the Manteca Center, the South Campus at Mountain House, and other facilities throughout the District. See the Schedule of Classes for offerings at regional sites.

Small Business Development Center

56 S. Lincoln St. Stockton, CA, (209) 954-5089
Through free and confidential business consulting and affordable training, the Small Business Development Center (SBDC) assists existing businesses be competitive in a complex marketplace and helps new entrepreneurs realize their dream of business ownership. Assistance includes business planning and management, financial management, marketing, loan feasibility and preparation, and access to a variety of resources. The SBDC operates an affordable virtual incubator providing home-based businesses, satellite offices, and emerging businesses part-time office use, a business address, mailbox, and access to all SBDC services.

Student Activities

Shima 101C, (209) 954-5100, FAX (209) 954-3743
The Office of Student Activities provides services and activities that support student life and student development at Delta College. The Office of Student Activities works closely with the Associated Students of Delta College (ASDC) to coordinate campus events and leadership opportunities for students. See web site: www.deltacollege.edu/bond/bond/dept/stuactivities/index.html
<http://www.deltacollege.edu/bond/bond/dept/stuactivities/index.html>

Services

- Information and support for clubs
- Locker assignments
- Bicycle locker assignments
- Posting approval
- Club registration
- Facility reservations for clubs
- Campus activities
- Leadership development

Adaptive Learning - Transition to Work

DeRicco Student Services Building, (209) 954-5151, ext. 6272
Adaptive Learning - Transition to Work (ALTW), formerly Special Education, courses are non-credit educational assistance classes designed specifically for students with intellectual disabilities who need survival level academic skills. Courses are limited.

Student Handbook

The Delta College Student Handbook is available on the College web site. It includes important information for students including the College Calendar, policies and regulations, and other important information helpful for student success.

Transfer Center

DeRicco 219, (209) 954-5151, ext. 6219

The Career Transfer Center serves to facilitate a smooth transition to a four-year college or university through various transfer activities. Services include online admissions application workshops, transfer admission agreements, field trips, appointments with visiting university representatives and major preparation advising. The resource library includes a collection of college catalogs for two-year colleges, CSU, UC, and other universities. The Career Transfer Center also hosts the annual Transfer Day and College Night programs each fall. For more information visit our web site, ctc.deltacollege.edu.

Tutor Services

Content Tutoring Center, Goleman Library, 1st Floor
(209) 954-5296

Pathways Center and ESL Lab, Holt 201
(209) 954-5297 and (209) 954-5352

Writing Success Center, Goleman Library 222
(209) 954-5192

Math/Science Learning Center, Science and Math Building 162
(209) 954-5542

For assistance with most academic subjects, students may obtain tutoring services free of charge in one of the campus learning centers. Students interested in serving as tutors should contact the learning centers.

Veterans Resource Center

DeRicco Student Services Building, (209) 954-5151, ext. 6151

The Veterans Resource Center, located in the DeRicco Student Services Building, provides current and former members of the Armed Forces a quiet study area, computers, tutoring, meetings with Veterans Affairs representatives and various workshops. The Resource Center is open Monday through Friday 8:00 a.m. - 5:00 p.m. (Please see department for summer hours).

Veterans Services

DeRicco Student Services Building, (209) 954-5115

Veterans of the armed forces as well as qualifying dependents, reservists and service members in an approved training program may qualify for a variety of benefits, including veterans educational benefits and

financial aid. The Office of Financial Aid, Scholarships and Veterans Services provides informational materials, advice on available educational benefits, and guidance on the special satisfactory academic progress requirements. Students wishing to apply for veterans educational benefits must apply directly through the Office of Financial Aid, Scholarships and Veterans Services by calling or visiting during office hours.

Voter Registration

Voter registration materials are available for students who wish to register to vote in the following offices: Admissions and Records, Financial Aid and Veterans Services, Student Activities, College Bookstore, and the Counseling Center.

Work Experience Program

Applied Science, Business, and Technology Division, Holt 140, (209) 954-5230

The Work Experience Program is designed for students enrolled in a course related to their specific job duties while working at a business, industry, or government work site. The Work Experience Program provides students an opportunity to develop marketable skills, abilities, attitudes, and work habits appropriate to successful employment in a career field. Students acquire sufficient career knowledge to enable them to develop an occupational education plan consistent with their career goals. The college assures the program offers opportunities in occupational areas relating to existing or anticipated employment opportunities. Students enrolled in the Work Experience Program may earn one to four (1-4) units of general elective college credit per semester. Students may earn a total of 16 units from the program. Once the student has reached the 16-unit limit, the student is no longer eligible for the program. For more information contact the Applied Science, Business, and Technology Division office.

Eligibility: Students must be enrolled in a Delta College course or courses and be working as a paid employee or non-paid volunteer at a business, industry, or government work site. Job duties at the work site must be related to at least one of the disciplines listed on the Work Experience web site:
www.deltacollege.edu/org/intern/

WorkNet Center

DeRicco Student Services, Room 208 - (209) 954-5151, ext. 6300

The WorkNet Center provides computers, internet access, telephones, fax machines, copiers, and staff who can assist with job search needs. Hours of operation are Monday through Thursday from 8:00 a.m. to 4:30 p.m. and Friday 8:00 a.m. to 11:30 a.m.

Workshops and Programs for Adults

Locke 107, (209) 954-5045

The Workforce Training Institute offers a wide variety of affordable short-term, not-for-credit, fee-based workshops, seminars, and training programs designed to meet the needs of our community. Workshops and programs are offered during the fall, spring, and summer terms, in the evenings and on weekends. Workshops and programs may be developed by special request for businesses, community groups, or other organizations.

Workshops and Programs for Adults provides a varied array of opportunities for personal growth, health and fitness, professional development, skill improvement, cultural enrichment, and recreational enjoyment. The schedule of Community Education workshops, including Workshops and Programs for Adults, is published each term. For detailed information about Workshops and Programs for Adults, the current workshop schedule, and registration information, call or visit the web site: adults.deltacollege.edu.

Youth Empowerment Strategies for Success (YESS) Program

Budd 205, (209) 954-5836

The Youth Empowerment Strategies for Success (YESS) Program empowers current and former foster youth to successfully transition into self-sufficiency and adulthood. YESS empowers youth by providing access to campus and community resources and services, and addressing the specific concerns foster youth face on their path to independence.

Current and former foster youth 16-21 years of age, who are enrolled in San Joaquin County Human Services Agency's Independent Living Program (ILP) are eligible to attend YESS training modules.

POLICIES AND REGULATIONS

Disclaimer

College Policies and Procedures outlined in the Catalog were accurate at the time of publication. Changes do occur from time to time. The most up-to-date Board

Student Rights and Responsibilities

It is very important for students to know their rights and responsibilities. In addition, it is also important for students to know the rights and responsibilities of Delta College. Students who believe their rights are being violated or the College is not meeting its responsibility in serving them, should contact the Vice President of Student Services. Students may appeal the matriculation requirements for pre- and co-requisites, limitations on enrollment, admissions, orientation, assessment, and counseling and advisement by petition.

Admissions

Student Rights:

- The College will provide equal educational opportunity for all students, regardless of race, religion, color, national origin, ancestry, disability, medical condition, marital status, age (over 40), gender, sexual orientation, or status as a Vietnam era veteran, who have met admission qualifications and course/program prerequisites. (Policy 5060, Sec. A)
- All courses of the District shall be open to enrollment in accordance with a priority system consistent with Administrative Procedure 5055. Enrollment may be limited to students meeting properly validated prerequisites and corequisites, or due to other non-evaluative, practical considerations as determined by the Assistant Superintendent/Vice President of Instructional Services. Students are not required to confer, consult, or receive permission to enroll in any class offered by the District, except as provided for in Administrative Procedure 5055 and District programs that permit restricted enrollment: the A.D.N. program; the L.V.N. program; the Psychiatric Technician program; the Radiologic Technician program; P.O.S.T. Academy; and the Firefighter I Academy. (MR 55532 Exemptions and AP 5052)

Student Responsibilities:

- Each student has the responsibility to select an educational goal in the Application for Admissions, i.e., A.A./A.S. degree, transfer, vocational certificate, personal development, improvement of basic skills, or undecided. (MR 55530 Student Rights)
- The student has the responsibility to meet all course prerequisites. (AP 5052)

Policies and Administrative Procedures are published in the college web site at www.deltacollege.edu/div/trustees/policies.html.

- Each student must assume responsibility for compliance with the instructions and regulations set forth in the College Catalog for selecting courses which will permit achievement of individual educational objective, and for satisfying course prerequisites.
- The student should attend class and study regularly. (MR 55530 (d) (3) Student Rights)
- Withdrawing from a class is the responsibility of the student. The student should drop the class by using the Internet registration system. As a matter of courtesy and to assist the instructor in maintaining accurate class records, the student should also inform the instructor of the decision to drop the course. (MR 58106 AP 5075)

College Rights:

- The College assumes no responsibility for the misinterpretation of policies and procedures as presented in the College Catalog, Schedule of Classes, and Student Handbook.
- The College reserves the right to change the regulations, fees, and other information contained in the College Catalog as required without prior notice.
- The College reserves the right to refund enrollment, non-resident tuition, and differential fees upon request for courses dropped before the end of the first two weeks of instruction for full-term classes or before the end of 10% of the length of the class for short-term classes. Refunds will be made upon request for courses dropped later if the program change is a result of action by the District to cancel or reschedule a class or to drop a student from a class where the student fails to meet a prerequisite. Refund request forms must be received by the Admissions and Records Office no later than after the final date to qualify for refund. Refunds are subject to a \$10.00 processing fee. (AP 5030, Sec. A and B)
- It is the right of an instructor to drop any student "who fails to attend any class session during the first three sessions of the class at the beginning of a term unless the student has advised and obtained an absence approval" from the faculty member. (BP 5075)
- It is the right of the instructor to drop a student from class when absences become excessive. (Policy 5075)

College Responsibilities:

- San Joaquin Delta College is an Equal Opportunity Employer and operates in compliance with Title IX, VII, and VI regulations. San Joaquin Delta College does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, or disability in its criteria for admission, employment, or participation in educational programs and activities. (Policy 5060)

Orientation**Student Rights:**

- All students have the right to enroll in a guidance class which provides an orientation to San Joaquin Delta College. (MR 55520 Required Services)

Student Responsibilities:

- It is the student's responsibility to enroll in a guidance orientation course or attend an appropriate orientation workshop. (GUID 010, 012, 014, 085)

College Rights:

- San Joaquin Delta College has the right to establish appropriate orientation services i.e., video, guidance courses, etc. (MR 55520 Required Services)

College Responsibilities:

- Delta College has the responsibility to provide students with the appropriate guidance based upon the student's need. (MR 55520 Required Services)

Academic Assessment**Student Rights:**

- Students have the right to know their academic skill level. This right is ensured through several mechanisms including the Academic Assessment Program, articulated programs with high schools, holistically scored essays, and transcripts from other colleges.
- Students who believe their reading, writing, or mathematics assessment is not reflective of their skills may challenge the results by taking the Challenge Test in the specific skill area. Students are limited to no more than two Challenge Test attempts per academic term for each of the three subject areas. Students who have exhausted the challenge process may appeal to the Vice President of Student Services.
- Students have the right to career/vocational interest assessment, which is available in the Career Center at a minimal cost to the student. (MR 55520 Required Services)

College Rights:

- In all programs and classes requiring special screening and entrance examination, San Joaquin Delta Community College will make the final selection of students. (Policy 5070, Procedures 5070.1, 5070.2, 5070.4, 5070.6, 5080, 5080.1)
- Academic Assessment is required for all first time Delta College students prior to class registration. Assessment will include reading, writing, and mathematical skills. An alternate to academic assessment may be met by one of the following:
 - Associate or Bachelor Degree (official transcript required);
 - Alternative assessment from other colleges;
 - Transfer students who have completed Delta College's English 1A or above or equivalent and Delta College's Math 82 or above or equivalent, each with a grade of "C" or better as verified by a transcript;
 - One course per semester waiver where appropriate. (AP 5051);
 - Granted scholastic recognition at admission — provide copy of letter from the President to Assessment Office;
 - Decided to enroll in Level I basic skills course(s) in reading, English, and mathematics only.

Guidance and Counseling**Student Rights:**

- All students have the right to receive personal, academic and career guidance. (MR 55520 Required Services and AP 5110)
- A student has the right to repeat once for credit any course in which a grade of D or F has been earned. Upon satisfactory completion of the repeated course, the better grade, grade points and units attempted are included in the computation of all cumulative grade point average. Both original and repeated grades will remain on the student's permanent record; however, duplicate units will not count toward the cumulative grade point calculation. Furthermore, a student may repeat for credit those courses designated repeatable in the College Catalog, regardless of the initial grade earned. (AP 4220.1)
- Students may file a complaint with the Vice President of Student Services if a student service which was advertised in the Schedule of Classes under the section "Services Available to Students" was recommended to the students in the SEP and was not available. (MR 55534 Violations, Waivers & Appeals)

- A student who is exempt from guidance and counseling may elect to file an SEP and/or to meet with a counselor. (AP 5110)

Student Responsibilities:

- The student should declare a specific educational goal or should be working toward determining a goal during the term after which the student has completed 15 semester units of degree-applicable courses. (MR 55530)
- The student should meet with a counselor to develop a Student Education Plan (SEP) - a program of study and services needed by the student to enable the individual to:
- Obtain his/her educational objective. (MR 55525, AP 5110)
- It is the student's responsibility to seek assistance in achieving the declared educational goal i.e., make an appointment for appropriate guidance and counseling. (MR 55530 (d) Student Rights)
- It is the student's responsibility to make progress toward the declared educational goal. (MR 55530)
- It is the student's responsibility to maintain satisfactory academic progress. (MR 55530)

College Rights

- Delta College has the right to establish appropriate student services i.e., guidance services, orientation, academic advisement, etc. (MR 55523 Counseling & Advisement)
- If a non-exempt student fails to cooperate with the District in the development of a Student Educational Plan (SEP) within 90 days after declaring the specific educational goal, or fails to abide by the terms of their specific educational plan, San Joaquin Delta College may suspend or terminate services. (MR 55530)

College Responsibilities

- Delta College has the responsibility to provide staff to facilitate the guidance process. (MR 55523)
- Delta College has the right to recommend the necessary services for students to achieve the stated academic goal. (MR 55523)
- Delta College will make available to all students organized educational, vocational and personal-social counseling. In those instances where there is counseling specialization, individual counselors may be designated for each specific area. A student will be encouraged to request counseling for personal-social problems which might interfere with satisfactory academic progress. (MR 55520 and AP 5110)

Counseling Services will primarily be responsible for:

- Providing guidance in program planning - immediate and long range.

- Administering and interpreting various non-academic tests.
- Counseling students with low scholastic achievement, including the special counseling required by Title V, Section 131, or the California Administrative Code.
- Counseling regarding any academic, career or personal problems that are related to the student's education.
- Providing, directly and by referral, occupational information to students.
- Providing, by referral assistance in the securing of employment.
- Providing referrals for students who are in need of psychological services including emergency mental health counseling and/or long-term therapeutic support.
- Providing special assistance to students who are on academic dismissal status to improve scholastic performance or pursue reinstatement to the College.
- Providing assistance to students who are applying for financial aid requiring an academic progress report or financial aid disqualification appeal. (AP 5110)
- Providing academic instruction in orientation to the College, personal development, self-esteem, career awareness, and job seeking skills.

Student Rights:

- Students have the right to be informed of the procedures to claim equivalency to courses or other requirements. (AP 5052)
- Students have the right to be informed through the Student Handbook, College Catalog, and Schedule of Classes of the definitions of prerequisites, corequisites and limitations on enrollment including the differences among them and the specific prerequisites, corequisites and limitations on enrollment which have been established. (AP 5075, AP 5052)
- Students have the right to be informed through the Student Handbook, College Catalog, and in the Schedule of Classes of the procedures to challenge prerequisites, corequisites, and limitation on enrollment and the grounds for which a student may make such a challenge. The information about challenges will include, at a minimum, the specific process including any deadlines, the various types of challenge that are established in law, and any additional types of challenge permitted by the College. (AP 5052)

Student Responsibilities:

- Students have the responsibility to become informed and to follow established policies and procedures regarding declaration of equivalency process.

- Students have the responsibility to become informed about the definitions of prerequisites, corequisites and limitations on enrollment including the difference among them.
- Students have a responsibility to become informed of the specific prerequisite, corequisites and limitations on enrollment which have been established.
- Students have a responsibility to become informed of the procedures to challenge prerequisites, corequisites, and limitations on enrollment as well as the circumstances to make such challenges.
- Students have the responsibility to follow the prerequisite or corequisite challenge process. (AP 5052)
- Students have the responsibility to provide satisfactory evidence that the challenge should be upheld if such facts are not in the College's own records. (AP 5052)

College Rights:

- The College assumes no responsibility for misinterpretation of policies and procedures as presented in the Student Handbook, College Catalog, or the Schedule of Classes.
- It is the College's right to establish prerequisites, corequisites, and limitations on enrollment per its policies and procedures. (Policy 5043)
- The decision of the Matriculation Appeals Committee shall be final. (AP 5052)

College Responsibilities:

- The College has the responsibility to establish a process to establish prerequisites and corequisites only upon the recommendation of the Academic Senate. Certain limitations on enrollment must be established in the same manner. (AP 4260)
- It is the College's responsibility to enforce prerequisites, corequisites, and limitations on enrollment which have been established per current policies and procedures.
- The College has the responsibility to establish, implement, and publish a prerequisite, corequisite challenge process. (AP 5052)
- The College has the responsibility to provide information, for a specific challenge if said information is in the College's own records. (AP 5052)

(AP 4260 & 4260.1 10/11/12; AP 5052 12/13/12; BPAP 5075 6/19/12, 12/13/12, 4/20/17; Policy 5043 03/06/96)

Student Right to Know (SRTK)

Student Right-to-Know Rates for Fall 2013 Cohort

Completion Rate: 27.32 %

Transfer Rate: 7.70 %

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is

the policy of our college district to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2012, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three-year period. Their completion and transfer rates are listed above. These rates do not represent the success rates of the entire student population at the College nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, a Completer is a student who attained a certificate or degree or became 'transfer prepared' during a three-year period, from Fall 2012 to Spring 2015. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered 'transfer- prepared'. Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five-semester period, from Spring 2013 to Spring 2015, are transfer students.

Campus Security

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act is the landmark federal law, originally known as the Campus Security Act, which requires colleges and universities across the United States to disclose information about crime on and around their campuses. Because the law is tied to participation in federal student financial aid programs it applies to most institutions of higher education both public and private. It is enforced by the U.S. Department of Education.

The "Clery Act" is named in memory of 19-year-old Lehigh University freshman Jeanne Ann Clery who was raped and murdered while asleep in her residence hall room on April 5, 1986. Jeanne's parents, Connie and Howard, discovered that students hadn't been told about 38 violent crimes on the Lehigh campus in the three years before her murder. They joined with other campus crime victims and persuaded Congress to enact this law, which was originally known as the "Crime Awareness and Campus Security Act of 1990."

The law was amended in 1992 to add a requirement that schools afford the victims of campus sexual assault certain basic rights, and was amended again in 1998 to expand the reporting requirements. The 1998 amendments also formally named the law in memory of Jeanne Clery. The law was most recently amended in 2000 to require schools beginning in 2003 to notify the campus community about where public "Megan's Law" information about registered sex offenders on campus could be obtained.

To view this information, visit the San Joaquin Delta College Police Department web site at:

www.deltacollege.edu/dept/police/statistics.html or call (209) 954-5000.

Absences

Absences for medical reasons of less than one week need not be reported to the College. Students who will be absent from class for one week or longer for any reason should notify the Counseling Center office. If medical or personal emergency requires absence of as much as two weeks, the student should notify the Counseling Center office for review of the student's program and the advisability of continuing in classes.

Academic Dishonesty - Definition

Academic Dishonesty/Plagiarism: presenting work, words, ideas, theories, etc., derived in whole or in part from a source external to the student as though they are the student's own efforts. Examples of plagiarism include, but are not limited to the following:

- Failing to use proper citations as acknowledgment of the true source of information found in a paper, written or oral examination, or any other academic exercise.
- Presenting any work completed in whole or in part by any individual or group other than the student, as though the work is the student's own, in any academic exercise.
- Buying, selling, bartering, or in any other fashion obtaining or distributing material to be used fraudulently as part of any academic exercise.
- Disseminating or receiving answers, data, or other information by any means other than those expressly permitted by the professor as part of any academic exercise.
- Copying answers, data, or other information (or allowing others to do so) during an examination, quiz, laboratory experiment, or any other academic exercise in which the student is not expressly permitted to work jointly with others.
- Assuming another individual's identity or allowing another person to do so on one's own behalf for the purpose of fulfilling any academic requirement or in any way enhancing the student's grade or academic standing.
- Using any device, implement, or other form of study aid during an examination, quiz, laboratory experiment, or any other academic exercise without the faculty member's permission. (AP 5500, 03/8/11, 5/15/14).

Academic Freedom and Responsibility

The San Joaquin Delta College Board of Trustees believes that faculty and students have the right to pursue teaching and learning with full freedom of inquiry. In order to assure that this viewpoint is understood by all, the Board has adopted the following policy on Academic Freedom and Responsibility

1. Academic freedom and academic responsibility are inseparable. Academic freedom is the right of the faculty member to interpret findings logically, rationally, and dispassionately and to communicate conclusions without being subjected to any interference, molestation, or penalization because these conclusions are at a variance with those of constituted authorities or organized groups beyond the College.
2. Likewise, the academic freedom of the student is the freedom to express and to defend views or beliefs, the freedom to question and differ, without authoritative repression and without scholastic penalization by the faculty or the College.
3. Academic freedom carries with it corresponding responsibilities. Academic responsibility emphasizes the obligation to study, to investigate, to present and interpret, and to discuss facts and ideas concerning man, human society, and the physical and biological world in all branches and fields of knowledge. Since human knowledge is limited and changeable, the instructor will acknowledge the facts on which controversial views are based and show respect for opinions held by others. While striving to avoid bias, the instructor will, nevertheless, present the conclusions to which he or she believes the evidence points.
4. To ensure for San Joaquin Delta College these principles of academic freedom, the administration of the College and the Board as the governing body of the District, will at all times demonstrate their support by actively and openly working toward a climate which will foster this freedom. Such participation will extend to the point of defending and supporting any faculty member who, while maintaining the high standards of his profession, finds his or her freedom of expression attacked or curtailed. (Policy 6620, 1/21/69)

Academic Renewal

The purpose of academic renewal is to disregard students' previously recorded substandard academic performance, when such work does not reflect their current demonstrated ability. Academic renewal encourages students to continue efforts toward their educational objectives. Therefore, academic renewal allows students the benefits of their current level of ability and performance, and does not permanently penalize them for poor performance in the past.

Students who wish to request academic renewal must petition the Director of Admissions and Records. Academic renewal will be applied only under the following conditions and with the following limitations:

- A. Academic renewal may be requested for up to five courses of previous unsatisfactory course work in which grades of "D," "F," or "NC" or "NP" have been recorded. The course work for which the renewal is requested must be identified in the application.

- B. Prior to the application for academic renewal, a period of at least one year must have elapsed subsequent to the semesters for which renewal is requested, during which period the student must have completed at least 12 units at Delta College (or another regionally accredited college,) with a grade point average of 2.0.
- C. Academic renewal is available only for courses taken at San Joaquin Delta College.
- D. Academic renewal may be granted for a total of five courses only.
- E. Academic renewal is irreversible.
- F. Courses used for awarding of a degree or certificate are not eligible for academic renewal unless another equivalent course replaces the renewed course on the evaluation.

It is highly recommended that currently enrolled students discuss educational objectives with a counselor and develop an appropriate Student Education Plan.

Academic renewal granted by San Joaquin Delta College does not guarantee that special programs or other institutions will approve or honor such actions. The determination will be made by the respective transfer institutions.

Effect of Academic Renewal on the Academic Record

- A. When a student is granted academic renewal for a course, the student's permanent academic record shall be annotated in such a manner that all work remains legible, ensuring a complete and true record of all academic work.
- B. Cumulative grade point average on students' permanent record excludes all course work that has been approved for academic renewal.
- C. No course work approved for academic renewal will apply toward graduation, certificate, or AA degree.
- D. Grade point average computation for graduation with honors and other awards uses all work including course work approved for academic renewal.

See AP 4220.1, Course Repetition and AP 4228, Course Repetition – Significant Lapse of Time (AP 4240, 6/12/14)

Absence from Class

A student who will be absent from any class or classes for three (3) days or longer for health reasons or other personal emergencies are advised to notify the Office of Counseling and Special Services.

If a student knows of a disability-related absence in advance (e.g., previously unanticipated surgery), the student is strongly encouraged to notify the class instructors and Disability Support Programs and Services (DSPS) prior to the absence.

A student may be dropped from a class due to excessive absences. If the excessive absences are disability-related (e.g. surgery, other treatment, an injury, or an

illness that is related to a disability or results in a disability) and the student intends to remain registered for the class, the student may meet promptly with a Disability Support Programs and Services (DSPS) Counselor to request assistance to remain registered for the class.

A student requesting DSPS assistance for disability-related absences is not required to be registered with DSPS prior to requesting such assistance. However, DSPS is authorized to determine whether a student making a request due to disability-related absences qualifies as an individual with a disability at the time of the request. If the individual is not disabled and/or the absences are not disability-related, the College is not required to accommodate the student beyond the legal requirements of Section 504 and Title II.

If the student does not agree with DSPS and the professor's decision, the student may file a grievance (See BP/AP 5530 Student Rights and Grievances). BP/AP 5075, 2/19/13, 12/13/12 and 4/20/17

Adding a Course

Students may add courses online through the registration period. (AP 5075, 12/13/12, 4/27/17).

Associate Degree Honors

Students receiving the Associate in Arts or Associate in Science degree are eligible for scholastic honors based on the cumulative grade point average at the end of the semester in which the student applied and was approved for graduation. Units and grade points from transferable courses taken at colleges other than San Joaquin Delta College will be included in computing the final grade point average for honors determination. Honors at graduation are denoted on the diploma and transcripts as follows:

- 4.00 Highest Honors
- 3.70 – 3.99 High Honors
- 3.30 – 3.69 Honors
- 3.00 – 3.29 Honorable Mention

Attendance Regulation

Regular attendance is necessary for satisfactory academic progress. Attendance in class and laboratory sessions is an obligation assumed by every student at the time of registration. Under no circumstances will a student be allowed to attend a class if he/she is not officially enrolled. Any student who fails to attend a class during the first three sessions may be dropped unless the student has advised and obtained an absence approval from the instructor. An instructor may drop a student from class when absences become excessive. Excessive absenteeism is defined as one more absence than the class meets per week. See the Student Handbook for procedures concerning

attendance irregularities. (BP/AP 5075, 12/2012, 2/13, 12/13/12, and 4/27/17)

Catalog Rights

A student may choose to apply for a degree or certificate under either the completion requirements in effect at the time of application for graduation or the graduation requirements in effect at the time of initial enrollment at the college, provided continuous enrollment is maintained.

Continuous enrollment is the earning of college credit in at least one semester or summer intersession during an academic year without interruption of progress. To retain catalog rights for graduation under the year of initial enrollment, a student is required to maintain continuous enrollment through the completion of the requirements for graduation. An academic year begins with the summer intersession and includes the following fall and spring semesters.

An emergency leave of absence for a term may be granted in those instances where it is warranted. Leaves of absence must be requested and approved in advance of the term for which absence is anticipated. Leaves of absence must be approved by the Vice President of Student Services. (AP 4100, 2/24/09)

The College reserves the right to change program requirements based upon legal mandate and/or accreditation standards at any time.

Change of Address

Students must report a change of address immediately to the Admissions and Records Office. The College assumes no responsibility for mail sent to an incorrect address as a result of the student's failure to report a change of address. Any change in a student's name as a result of marriage or court action should be reported to the Admissions and Records Office. Appropriate documentation; court order, marriage license, etc. must be provided. Students may check the address on file by logging in to Online Registration and selecting the "Records" tab at the top of the page. If the information listed is incorrect, students should submit a "Change of Information Form," which is available online, to the Admissions and Records Office.

Classification of Student

- **Freshman** - a regularly admitted student who has completed fewer than 30 units.
- **Sophomore** - a regularly admitted student who has completed 30 units but fewer than 60.

Continuous Enrollment

Continuous enrollment is the earning of college credit in at least one semester during an academic year without

interruption of progression. To retain catalog rights for graduation under the year of initial enrollment, a student is required to maintain continuous enrollment through the completion of the requirements for graduation. Emergency leave of absence for a term may be granted in those instances where an absence is warranted. Leaves of absence must be requested and approved in advance of the term the leave is taken. Leaves of absence must be approved by the Vice President of Student Services. (AP 4100, 2/24/09)

Course Audit

It is the policy of San Joaquin Delta College that students be permitted to audit courses only in order to address specific or unusual educational circumstances. Information regarding course audit may be obtained in the Office of Admissions and Records. (Policy 5201, 1/20/98, 10/19/99)

Course Repetition

Substandard Grade

- A. Any course in which a grade of "D" or "F" has been received may be repeated once in order to attempt to raise the grade and grade points. The better grade and grade points earned will be counted in computing the grade point average as if it were another new course. Units attempted, grade, and grade points of the substandard grade will be removed from the totals for the semester in which it was earned, but the course will remain listed on the student's permanent record with the appropriate notations. In no case will duplicate units be allowed toward graduation. A course must be repeated before the next advanced course to which it is a prerequisite is attempted.
- B. Any course in which a student has received a grade of "No Credit" or "No Pass" may be repeated once in order to attempt to raise the grade to "Credit" or "Pass" (or to a letter grade of "A, B, C, D, or F," provided the course permits this option). If the student receives the "Credit" or "Pass" grade, units will be awarded. If the student receives a letter grade of "A, B, C, or D," units and grade points will be awarded.
- C. The limitations above notwithstanding, a student may petition Director of Admissions and Records for permission to repeat a course more than once to address a substandard grade with the following limitations:
- D. Student is allowed no more than three enrollments that result in grading symbols of "D," "F," "NC," "NP," and "W."
- E. Students who are allowed to enroll for the third time are not allowed to drop the class on or after the census date—they are required to receive a grade.

- F. Students must request permission from the instructor to add the course once classes have begun.
- G. Student must provide the instructor with a copy of the petition to repeat the approved class.
- H. Student is allowed to enroll only after all other credit-seeking students have been added to the class.
- I. Students are required to seek support services such as tutoring, counseling, etc., as determined by the College Counselor.
- J. Students, who have exceeded the number of repetitions allowed under this procedure and wish to repeat a class, shall not be allowed to re-enroll in the course at Delta College.
- K. The District will not collect apportionment for enrollment in a class after a total of three repetitions resulting in "W"s, grades, or other non-evaluative symbols.

Significant Lapse of Time

A student may petition the Director of Admission and Records for permission to repeat a course when another institution of higher education to which the student seeks transfer has established a recency requirement which the student will not be able to satisfy without repeating the class.

- A. If the Director of Admissions and Records determines that a student needs to repeat an active participatory experience course, as defined in Title 5 Section 55000, in physical education, or visual or performing arts, or an active participatory course that is related in content due to significant lapse of time, that repetition shall be counted in applying the limit set forth in Title 5 Section 55000 (c) except that, if the student has already exhausted the number of repetitions permitted under subdivision (c), and additional repetition due to significant lapse of time may be permitted or required by the District.
- B. When a course is repeated pursuant to a significant lapse of time, the previous grade and credit in computing the student's grade point average will be disregarded. (BP/AP 4220.1, 8/13/02, 5/22/12, 10/24/13, 12/17/13)

Course Substitution

Course substitution for associate degrees for transfer is limited to students transferring from another accredited institution that has an aligned degree in the same discipline. In this circumstance, the student may petition to use courses taken at the sending institution to satisfy the District's degree requirements. A course that does not appear on the District list, but satisfies the same aligned degree at the sending institution may be substituted. (AP 4042, 2/14/12)

Credit by Examination (CBE)

The purpose of credit by examination is to recognize a student's experience(s) and knowledge base for which credit or advanced standing has not been previously granted. Credit may be earned by a student who satisfactorily passes authorized examinations.

1. Credit may be granted to any student who satisfactorily passes an examination approved and conducted by appropriate authorities of the College.
2. CBE may be granted only for a course listed in the current College Catalog. Each division shall maintain a list of courses which may be challenged for CBE.
3. The student's academic record shall be clearly annotated to reflect that credit was earned by examination.
4. CBE courses must be awarded a letter grade (A, B, C, D, or F), except for courses that are offered only as a credit/no credit grading option.
5. Units for which credit is given by examination shall not be counted in determining residency required for the associate degree or certificate.
6. A student may not receive credit for a CBE if the student has already completed a more advanced course in the same subject matter.
7. CBE may not be considered part of the student's program for enrollment verification purposes.
8. A student may not earn more than 12 semester units of academic credit by examination.
9. CBE is not offered during the summer intersession.

The student will initiate a petition no later than the fourth week of the semester to challenge for CBE. The Office of Admissions and Records will verify that the student meets the eligibility criteria. The student must provide written evidence, i.e., transcripts, letters of recommendation, etc., that substantiates the knowledge base or experience that the student has which warrants approving the petition to challenge the course. The student will consult with a Counselor to determine if CBE will assist the student in meeting educational goals. (AP 4235, 5/10/05)

Credit for Advanced Placement Examinations

- A. San Joaquin Delta College will recognize advanced placement validated by Advanced Placement (AP) Examinations.
- B. Results from an AP examination and an application for credit must be submitted to the Registrar before credit is awarded.
- C. Academic Credit may be awarded to satisfy completion of general education areas based on attainment of required scores. In some cases attainment of required scores may be used to meet specific course requirements and/or prerequisites for courses offered by San Joaquin Delta College,

subject to the restrictions outlined below. The listing of course equivalencies will be established by the Assistant Superintendent/Vice President in conjunction with the appropriate faculty discipline group, Curriculum Committee, and Academic Senate. A listing of course equivalencies will be published annually which identifies the AP Examination, Required Score, SJDC Equivalent Course, Units Awarded, SJDC General Education Area, CSU General Education Area, and IGETC General Education Area.

1. AP examinations in which a minimum score of three (3) or higher has been achieved are eligible for advanced placement course credit.
2. AP examination credit may not be used to meet specific course requirements or prerequisites within a student's major. Students requesting AP credit to meet specific course requirements or prerequisites within their selected major must submit a petition to the Director of Admissions and Records that is approved by a College Counselor.

College counselors will make the student aware of transfer issues that may occur as a. (AP 4235.1, 5/11/11).

Credit for Military Experience

To request an evaluation of military experience, a copy of the veteran's separation document (DD-214) and copies of any other certificates documenting special service schools must be filed with the Office of Financial Aid and Veterans Services. Credit granted for schools is based upon recommendations of the American Council on Education in the Guide to the Evaluation of Education Experiences in the Armed Services. In order to qualify for evaluation the school must have been given on a formal, full-time basis (not a correspondence course, with the exception of certain high-level, non-resident courses). To be granted credit for work completed at another institution, the student should request that official copies of all prior college transcripts be mailed to the Office of Financial Aid and Veterans Services at San Joaquin Delta College. Students may receive a maximum of 20.0 elective units.

Distance Education

Definition of Distance Education

Distance Education: Instruction in which the instructor and student are separated by distance and interact through the assistance of communication technology.

- A. Online Courses: The predominant means of distance education delivery. Students are not required to physically visit the campus.
- B. Hybrid Courses: Instruction in which the required number of instructional hours are divided between online coursework and mandated on-ground

instructional activities. Students are required to physically visit the campus.

- C. For clarification, web-enhanced courses are face-to-face courses that require the student to access the internet and/or a learning management system as part of the coursework, but online activities do not replace scheduled classroom seat time. Therefore, web-enhanced courses do not constitute distance education.

Course Quality

- A. All courses to be taught utilizing distance education shall contain the same content, rigor, and course quality as traditional courses as outlined in the policies for the SJDC Curriculum Committee curriculum approval process. As such, all distance education is subject to the general requirements of AP 4020, Curriculum Development Process (Credit, Noncredit, and Not-for-Credit), et al, and must be offered in compliance with the District's Distance Education Plan (DE Plan).
- B. As distinct from correspondence courses, all distance education courses are required to maintain regular effective substantive contact between the professor and students, in accordance with Title V. Regular effective substantive contact is defined as professor-initiated interaction and responsive interaction by the professor to students.
- C. Documentation of distance education specifications will be reviewed whenever the course comes up for regular curricular review. The Distance Education Committee Chair and designees will participate in the curricular review of distance education courses.

District Responsibilities

In order to assure that distance education is characterized by the same quality, integrity, effectiveness, and concern for student learning that apply to more traditional modes of instruction, the District shall integrate distance education into the normal program review process in all areas of the College with a focus of maintaining services to students in distance education courses, including, but not limited to:

- A. Library and Learning Resources
- B. College Support Services for Students
- C. Facilities and Finances

Federal Accessibility Guidelines

Whether students with disabilities are enrolled in them or not, the College shall abide by federal accessibility guidelines in accordance with Government Code Section 508 and the Americans with Disabilities Act for all distance education courses.

Distance Education Faculty Training

Regardless of the Learning Management System (LMS) used, distance education faculty must successfully complete approved training for online instructors through the Professional Development Center before teaching online. Approved, training will include best practices in

regular contact, accessibility, and effective online course design and other aspects.

Verification of Student Identity

- A. In accordance with Title 34 CFR § 602.17, the District requires verification of the identity of a student who participates in class or coursework by using the following methods:
 1. A secure login and pass code;
 2. Proctored examinations; or
 3. New or other technologies and practices that are effective in verifying student identity; and,
 4. Authentication that the online student who registers is the same as the participant
- B. Makes clear in writing that the District uses processes that protect student privacy and notifies students of any projected additional charges associated with the verification of student identity at the time of registration, enrollment, or the Catalog.

Learning Management System (LMS)

The primary LMS used by the District cannot be changed without consulting the Distance Education Committee.

The primary LMS adopted by the District must be used as the initial access point (student portal) for all distance education courses and programs. This does not preclude the use of other LMSs so long as access by authorized administrative personnel is made available.

Measuring the Last Date of Attendance in Distance course

Effective July 2011, the U.S. Department of Education has defined "Last Date of Attendance" as an academically-related activity that is documented. Title 34 CFR § 668.22(c)(3)(i).

For distance education courses, an "academically-related activity" includes but is not limited to: a quiz, test or assignment submission, meaningful participation in an online discussion, and student initiation of contact with the instructor to ask a course-related question via email or chat. Title 34 C.F.R. § 668.22(c)(3)(ii)

The Last Date of Attendance is not defined as the last date of course log in, and is not the same as the drop date.

For the purposes of the procedure, information on the matter can be found in the current Distance Education Plan. (BP/AP 4115 5/20/14, 3/6/14; Renumbered 5/16) (BP/AP 4110 2/12/15)

Drug-Free Campus

The District shall be free from all drugs and from the unlawful possession, use or distribution of illicit drugs and alcohol by students and employees.

The unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in all facilities under the control and use of the District.

Any student or employee who violates this policy will be subject to disciplinary action (consistent with local, state, or federal law), which may include referral to an appropriate rehabilitation program, suspension, demotion, expulsion or dismissal.

The Superintendent/President shall assure that the District distributes annually to each student and employee the information required by the Drug-Free Schools and Communities Act Amendments of 1989 and complies with other requirements of the Act. (BP 3550, 9/8/09)

Educational Privacy Rights of Students

The Family Educational Rights and Privacy Act (Section 438, Public Law 93-380), as amended, requires educational institutions to provide: student access to official educational records directly related to the student; explanation of educational records and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading, or otherwise inappropriate; that the College must obtain the written consent of the student before releasing personally identifiable information about the student other than to a list of persons and agencies specified by the Act; and that these rights extend to present and former students of the College. The act provides that the College may release certain types of directory information, unless the student submits a request in writing to the Admissions and Records Office that certain or all such information shall not be released without the student's consent.

Directory information at Delta College includes the student's name, address, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended by the student. The student may also need his/her parents' consent before financial aid statements on file can be released to the student. The student should confer first with the Admissions and Records Office regarding any inquiries of the student's educational records.

Final Examinations

Instructors shall administer a final examination for each class. Exemptions to this policy may be authorized only by the Assistant Superintendent/Vice President of Instruction. The final examinations should be appropriate to the nature of the course as indicated in the course information sheet on file with the Assistant Superintendent/Vice President for Instruction.

Finals shall be given in accordance with the adopted academic calendar distributed by the Assistant Superintendent/Vice President of Instruction. (BP 4200, 12/1/09)

Fingerprinting Clearances

All prospective employees, volunteers, and student lab aides working at the Child Development Center (CDC) are required to have Department of Justice (DOJ), Federal Bureau of Investigation (FBI), and Child Abuse Index clearances. In the event a student enrolled in a class requiring CDC lab hours does not receive Child Abuse Index clearance, the student shall be dropped from the class requiring the lab hours or assigned activities in the CDC unless other arrangements equivalent to the course requirements can be made with the faculty member in charge of the class. (AP 7337, 1/17/13)

Fire Alarms

During an audible fire alarm activation or when ordered to leave by the police, emergency personnel, or college staff, please take the following actions:

1. ALWAYS EVACUATE A BUILDING IF THE FIRE ALARM IS SOUNDING
2. Inform others in the building who may not have responded to the alarm to leave immediately.
3. The alarm may not sound continuously. If the alarm stops, continue to evacuate the building and warn others who may attempt to enter the building.
4. If time permits, turn off computers, unplug electrical equipment, take your purse or wallet, and close windows and doors before leaving.
5. If you have a mobility impairment, request assistance from those nearest you. If no one is there to render assistance, proceed to the nearest stairway landing, and shout for help. Consultation about these procedures is available from the Police Department.
6. When fire alarms sound, do not use the elevators. An elevator may become a trap. Assist (help carry, if necessary) all disabled persons in using the stairs.
7. If there is a closed door in your exit path, touch the door lightly with the back of your hand to ensure it is not warm. If it is not warm, open slowly. Be prepared to close the door quickly if smoke or flames are present.
8. If there is smoke in your only exit path, crawl on hands and knees, keeping your head as close to the ground as possible to avoid inhaling toxic fumes.
9. Relocate to a nearby parking lot and keep the pathways and roadways clear for responding emergency personnel.
10. Do not return to the building until told to do so by the Police Department or emergency personnel.

Grade Changes to Academic Record

The instructor of a course shall determine the grade to be awarded to each student. The determination of the

student's grade by the instructor is final in the absence of mistake, fraud, bad faith or incompetency.

Students who believe that an error was made in a grade entered on their permanent record may petition the Director of Admissions and Records to correct the record. Petitions for a grade change must be filed no later than one (1) year after the term for which the grade was posted and will be made only after the assigning instructor determines the validity of such a petition and issues a written authorization for the grade change. Grades will not be changed for courses completed more than one (1) year prior to the date of a petition except as noted in paragraph "C" below.

In cases of alleged instructor fraud, bad faith or incompetence, the final determination regarding the removal or change of a grade or adjustment of fees will be made by the Superintendent/President or designee as set forth by Administrative Procedure 5530, (Student Rights and Grievances).

Only one grade change petition per course is allowed.

Students who believe that an error was made in enrollment, non-resident, or class fees charged against their student account based on last date of attendance may petition the Director of Admissions and Records to correct the record. Petitions for a removal of fees must be filed no later than one (1) year after the term for which the fees were charged and will only be made after the instructor of record determines the validity of such a petition based on last date of attendance and issues a written authorization for the correction of the drop date.

Fees will not be changed for courses completed more than one (1) one year prior to the date of a petition except as noted in paragraph "C" above.

Only one request for adjustment of fees petition per course is allowed.

The District will consider petitions for documented special circumstances for 1-1/2 (one and one half) years. (BP 4220, 8/13/02, BP 4231, 12/15/09, AP 4231, 5/31/11 and AP 5530, 5/15/14)

Grading Option

Every course in the College is placed, by the offering department in one of the following grading categories:

- | | |
|---|--|
| 0 | Letter grade only |
| 1 | Pass/No Pass |
| 2 | Letter grade only; No incomplete allowed |
| 3 | Letter grade or Pass/No Pass |
| 4 | [NO GRADE] - Ungraded |
| 5 | Letter grade or Pass/No Pass for out-of-term class |
| 6 | Letter grade only for out-of-term class |
| 7 | Pass/No Pass for out-of-term class |
| 8 | Letter grade only; No incomplete allowed for out-of-term class |

Grading Option - Pass/No Pass

Some credit courses may be approved by the Curriculum Committee and listed in the College Catalog and Schedule of Classes as offered with a Pass/No Pass option. Under the Pass/No Pass option, a student enrolled in a course that normally awards traditional grades (A, B, C, D, or F) may elect to receive only a grade of either "Pass" or "No Pass." The grade of "Pass" will be given if the student's work is judged to be equivalent to the grade of A, B, or C, and the grade of "No Pass" if it is judged equivalent to a D or F.

Students may elect the Pass/No Pass option for only one course per semester except in cases where Pass/No Pass is the only grading option available for courses in which the student enrolls. No more than 15 units of Pass/No Pass may apply to the total units required for a degree. A course taken using the Pass/No Pass grading option may not be applied to satisfy an academic major requirement.

Students desiring to apply the Pass/No Pass grading option to a course are required to declare commitment to the Pass/No Pass status to the instructor prior to completion of 30% of the scheduled class meeting for the term. Once elected by the student, the Pass/No Pass grade option may not be changed back to the traditional grading option. (AP 4230.1, 4/1/09)

Graduation Information

The last day to file an application for summer, fall, or spring graduation is indicated on the Registration Calendar for each term. Students may apply for degrees at the beginning of the term during which the requirements will be completed. Degrees will be awarded at the conclusion of the summer, fall, or spring term. Graduates from summer and fall and candidates for graduation for spring are eligible to participate in the annual commencement ceremony which is held at the conclusion of the spring semester. Information about the annual commencement ceremony may be found on the College web site.

Honors at Commencement

Graduates will be recognized during the Commencement Ceremony for honors designated as follows:

- 3.50 - 4.00 - Gold Tassel
- 3.00 - 3.49 - Silver Tassel

The honor designation for fall and spring graduates is computed using the cumulative grade point average at the end of the previous Fall semester and includes all A.A./A.S. applicable course work, including work from other colleges. A student with a cumulative grade point average from 3.00 - 4.00 will be denoted by an asterisk (*) following his or her name in the program. Graduates

with cumulative grade point averages below 3.00 receive a black tassel.

Program Review

The Program Review process at San Joaquin Delta College has two primary purposes: to maintain, improve, and promote the quality of instruction at the College and to utilize the institution's resources effectively and efficiently. Baseline data collected through program review is used for self-examination for accreditation, assessment of student learning outcomes, and to enhance specific programs and service delivery. The process also serves to integrate program review recommendations with annual budget development for consideration by the College's Planning and Budget Committee and administration.

Each Administrative Services department/unit, Instructional program, and Student Services department/unit will complete a program review every two years. (BP/AP 4015, Program Review 4/7/2015, 2/12/15)

Military Withdrawal

Residence Determinations for Military Personnel and Dependents

A student who is a member of the armed forces of the United States stationed in California on active duty, except a member of the armed forces assigned for educational purposes to a state-supported institution of higher education, is entitled to resident classification. Such students shall retain resident classification in the event that the member of the armed forces is thereafter transferred on military orders to a place outside of California or thereafter retires from active duty, so long as the student remains continuously enrolled in the District.

A student who is a natural or adopted child, stepchild, or spouse who is a dependent of a member of the armed forces of the United States stationed in this state on active duty shall be entitled to resident classification. Such student shall retain resident classification if he/she is thereafter transferred on military orders to a place outside of California, so long as the student remains continuously enrolled in the District.

A student who was a member of the armed forces of the United States stationed in California on active duty for more than one year immediately prior to being discharged from the armed forces is entitled to resident classification for the length of time he or she lives in California after being discharged up to the minimum necessary to become a resident.

A parent who is a federal civil service employee and his or her natural or adopted dependent children are entitled to resident classification if the parent has moved to this state as a result of a military mission realignment action

that involves relocation of at least 100 employees. This classification shall continue until the student is entitled to be classified as a resident, so long as the student continuously attends an institution of public higher education.

A student claiming the residence classifications provided for in this procedure must provide a statement from the student's commanding officer or personnel officer providing evidence of the date of the assignment to California, and that the assignment to active duty in California is not for educational purposes. A student claiming the residence classifications provided for here for dependent of military personnel shall provide a statement from the military person's commanding officer or personnel officer that the military person's duty station is in California on active duty as of the residence determination date, or has been transferred outside of California on active duty after the residence determination date, or that the military person has retired from active duty after the residence determination date. (Title 5, Sections 54041; 54042)

Withdrawal Policies for Members of the Military
A student who is a member of an active or reserve United States military service and who receives orders compelling a withdrawal from courses shall be permitted to withdraw upon verification of such orders. A withdrawal symbol of "MW" may be assigned. Military withdrawal shall not be counted in progress probation, dismissal calculations, or in calculating the permitted number of withdrawals. In no case may a college require a student who is required to report for military duty to withdraw from a course by a specified date in order to receive a full refund of the tuition and fees the student paid to the college for the academic term in which the student was required to report for military service. (AP 5013, 02/28/13)

Non-Discrimination and Harassment Policy

The Board of Trustees of San Joaquin Delta Community College District is committed to equal opportunity in education programs, employment, and all access to institutional programs and activities.

The District and each individual who represents the District shall provide access to its services, classes and programs and shall make all decisions regarding educational opportunities, recruitment, hiring, dismissal, compensation, promotions, and all other terms and conditions of employment without regard to national origin, religion, age, sex, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military and veteran status, or any other legally protected class, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association

with a person or group with one or more of these actual or perceived characteristics.

The Superintendent/President shall establish administrative procedures that ensure all members of the college community can present complaints regarding alleged violations of this policy and have their complaints heard in accordance with the Title 5 regulations (See AP 3435 and 3435.1) and those of other agencies that administer state and federal laws regarding nondiscrimination.

The District is to conduct training programs on cultural awareness and equal employment opportunity, disability awareness, and gender equity for managers, faculty, and staff. Staff involved in employment selection procedures are to be oriented by the Director of Human Resources as to the Board's Equal Employment Opportunity Policy.

The District also assures that the working conditions of all employees will include freedom from discrimination or harassment, and that each employee will have equal access to promotional, transfer, and training/development opportunities. The Chief Human Resources Officer will monitor District policies and practices for evidence of discrimination or harassment. The District will take whatever steps are needed to prevent discriminatory conditions from occurring.

Reasonable accommodation will be made by the District to enable applicants with disabilities to apply for jobs and to assist employees with disabilities in performing their work and in achieving promotion.

No District funds shall ever be used for membership, or for any participation involving financial payment or contribution on behalf of the District or any individual employed by or associated with it, to any private organization whose membership practices are discriminatory on the basis of national origin, religion, religious creed, age, gender, gender identity, gender expression, race or ethnicity, color, medical condition, genetic information, ancestry, sexual orientation, marital status, physical or mental disability, pregnancy, military and veteran status, or any other legally protected class, or because he or she is perceived to have one or more of the foregoing characteristics, or based on association with a person or group with one or more of these actual or perceived characteristics.

(BP/AP 3410 and BP/AP 3430 - 5/17/16, 3/10/16)

No Habra Discriminación

De acuerdo con la legislación de los Derechos Civiles, San Joaquin Delta College provee servicios y beneficios a sus estudiantes sin importar la raza, color, origen nacional, sexo, edad o cualquier incapacidad. La falta del conocimiento de la idioma inglés no sera obstáculo

para ser admitido y participar en los programas de educación vocacional.

(Títulos VI y VII Acta de Derechos Civiles de 1964; Título IX de las Enmiendas de Educación de 1972; las Secciones 503 y 504 del Acta de Rehabilitación de 1973).

Para más información acerca de estas leyes y reglamentos comuníquese con: Coordinadora del ADA/Sec. 50 Directora de Programas y Servicios para Estudiantes Incapacitados edificio DeRicco 104 (209) 954-5151, ext. 6104 (V/TDD) or the Director of Human Resources of Human Resources, (209) 954-5056.

Open Enrollment Access Policy

It is the policy of the San Joaquin Delta Community College District that, unless specifically exempted by statute, every course, course section, or class, the Full-Time Equivalent Student (FTES) enrollment of which is to be reported for state apportionment, and wherever offered and maintained by the District, shall be fully open to enrollment for participation by any person who has been admitted to the College and who meets such prerequisites as may be established pursuant to Chapter II, Division 2, Part VI, Title 5 of the California Administrative Code, commencing with Section 51820. It is further the policy of the District that where health, safety, legal requirements, or the facility is a limiting factor in the conduct of a course/program, fair and equitable admission requirements and procedures will be established to meet such limitation.

Prerequisites

Prerequisites, co-requisites, advisories, and limitations are necessary to ensure that students succeed in their coursework and have access to the courses they require. It is important to have prerequisites in place where they are a vital factor in maintaining academic standards. It is also necessary to ensure that prerequisites, co-requisites, advisories, and limitations do not constitute unjustifiable obstacles to student access and success. Therefore, to foster the appropriate balance between these two concerns, the Education Code requires that prerequisites, co-requisites, advisories, and limitations be established based solely on content review or content review with statistical validation.

Information in the College Catalog, Schedule of Classes, and Student Handbook

The District shall provide the following explanations in the College Catalog, Schedule of Classes, and Student Handbook:

A. Definitions of prerequisites, co-requisites, and limitations on enrollment including the differences among them and the specific prerequisites, co-requisites, and limitations on enrollment that have been established.

- B. Procedures for a student to challenge prerequisites, co-requisites, and limitations on enrollment and circumstances under which a student is encouraged to make such a challenge. The information about challenges must include, at a minimum, the specific process including any deadlines, the various types of challenge that are established in law, and any additional types of challenge permitted by the District.
- C. Definitions of advisories on recommended preparation, the right of a student to choose to take a course without meeting the advisory, and circumstances under which a student is encouraged to exercise that right.
- D. Definitions of contract course, co-requisite, noncredit basic skills course, non-degree-applicable basic skills courses, prerequisite and satisfactory grade.

Challenge Process

- A. Any student who does not meet a prerequisite or co-requisite or who is not permitted to enroll due to a limitation on enrollment but who provides satisfactory evidence may seek entry into the course as follows:
 - 1. If space is available in a course when a student files a challenge to the prerequisite or co-requisite, the District shall reserve a seat for the student and resolve the challenge within five (5) working days. If the challenge is upheld or the District fails to resolve the challenge within the five (5) working-day period, the student shall be allowed to enroll in the course.
 - 2. If no space is available in the course when a challenge is filed, the challenge shall be resolved prior to the beginning of registration for the next term and, if the challenge is upheld, the student shall be permitted to enroll if space is available when the students registers for that subsequent term.
 - 3. The determination of whether a student meets a prerequisite shall be made prior to his or her enrollment in the course requiring the prerequisite, provided, however, that enrollment may be permitted pending verification that the student has met the prerequisite or corequisite. If the verification shows that the student has failed to meet the prerequisite, the student may be involuntarily dropped from the course. If the student is dropped, the applicable enrollment fees shall be promptly refunded.
 - 4. The determination of whether a student meets a prerequisite shall be based on successful completion of an appropriate course or on an assessment using multiple measures, as required by section Title 5 Section 55521(a)(3). Any assessment instrument shall be selected and used in accordance with the provisions of subchapter 6 (commencing with Title 5 Section 55500).

5. No exit test may be required to satisfy a prerequisite or co-requisite unless it is incorporated into the grading for the prerequisite or co-requisite course.
- B. Grounds for challenge shall include the following:
1. Those grounds for challenge specified in Title 5 Section 55201(f).
 2. The student seeks to enroll and has not been allowed to enroll due to a limitation on enrollment established for a course that involves intercollegiate competition or public performance, or one or more of the courses for which enrollment has been limited to a cohort of students. The student shall be allowed to enroll in such a course if otherwise he or she would be delayed by a semester or more in attaining the degree or certificate specified in his or her educational plan.
 3. The student seeks to enroll in a course that has a prerequisite established to protect health and safety, and the student demonstrates that he/she does not pose a threat to himself/herself or others.
 4. The student has the obligation to provide satisfactory evidence that the challenge should be upheld. However, where facts essential to a determination of whether the student's challenge should be upheld are or ought to be in the District's own records, then the District's has the obligation to produce that information.

Curriculum Review Process

The curriculum review process shall at a minimum be in accordance with all of the following:

- A. Establish a Curriculum Committee and its membership in a manner that is mutually agreeable to the college administration and the academic senate.
- B. Establish prerequisites, co-requisites, and advisories on recommended preparation (advisories) only upon the recommendation of the academic senate except that the academic senate may delegate this task to the Curriculum Committee without forfeiting its rights or responsibilities under Title 5 Sections 53200-53204 and within the limits set forth in Title 5 Section 55003. Certain limitations on enrollment must be established in the same manner.
- C. Establish prerequisites, co-requisites, advisories on recommended preparation, and limitations on enrollment only if:
 1. The faculty in the discipline or, if the college has no faculty member in the discipline, the faculty in the department do all of the following:
 - a. Approve the course; and,
 - b. As a separate action, approve any prerequisite or co-requisite, only if:
The prerequisite or co-requisite is an appropriate and rational measure of a student's readiness to enter the course or program as demonstrated by

a content review including, at a minimum, all of the following:

- i. involvement of faculty with appropriate expertise;
 - ii. consideration of course objectives set by relevant department(s). The curriculum review process should be done in a manner that is in accordance with accreditation standards.
 - iii. be based on a detailed course syllabus and outline of record, tests, related instructional materials, course format, type and number of examinations, and grading criteria;
 - iv. specification of the body of knowledge and/or skills which are deemed necessary at entry and/or concurrent with enrollment;
 - v. identification and review of the prerequisite or co-requisite which develops the body of knowledge and/or measures skills identified under
 - vi. matching of the knowledge and skills in the targeted course (identified under iv.) and those developed or measured by the prerequisite or co-requisite (i.e., the course or assessment identified under v.); and
 - vii. maintain documentation that the above steps were taken.
- c. Approve any limitation on enrollment that is being established for an honors course or section, for a course that includes intercollegiate competition or public performance, or so that a cohort of students will be enrolled in two or more courses, and, in a separate action, specify which.
 - d. Approve that the course meets the academic standards required for degree applicable courses, non-degree applicable courses, non-credit courses, or community service respectively.
 - e. Review the course outline to determine if a student would be highly unlikely to receive a satisfactory grade unless the student had knowledge or skills not taught in the course. If the student would need knowledge or skills not taught in the course itself, then the course may be approved for degree applicable credit only if all requirements for establishing the appropriate prerequisite have been met excepting only approval by the Curriculum Committee.
 - f. Review the course outline to determine whether receiving a satisfactory grade is dependent on skills in communication or computation. If receiving a satisfactory grade is sufficiently dependent on such skills, then the course may be approved for degree applicable credit only if all requirements have been met for establishing a prerequisite or co-requisite of not less than eligibility for enrollment to a degree-applicable course in English or mathematics, respectively.
2. A course which should have a prerequisite or co-requisite as provided in (5) or (6) but for which

one or more of the requirements for establishing a prerequisite have not been met may only:

Be reviewed and approved pursuant to the standards for non-degree applicable credit, non-credit, or community service; or

Be revised and reviewed as required to meet the criteria for establishing the necessary prerequisites or co-requisites.

3. The Curriculum Committee also reviews the course and prerequisite in a manner that meets each of the requirements specified above.
- D. Program Review. As a regular part of the program review process or at least every six years, except that the prerequisites and co-requisites for vocational courses or programs shall be reviewed every two years, the college shall review each prerequisite, co-requisite, or advisory to establish that each is still supported by the faculty in the discipline or department and by the Curriculum Committee and is still in compliance with all other provisions of this policy and with the law. Any prerequisite or co-requisite that is still supported shall be reviewed promptly thereafter to assure that it is in compliance with all other provisions of this policy and with the law.
- E. Implementing Prerequisites, Co-requisites, and Limitations on Enrollment. Implementation of prerequisites, co-requisites, and limitations on enrollment must be done in a consistent manner and not left exclusively to the classroom instructor. Every attempt shall be made to enforce all conditions a student must meet to be enrolled in the course through the registration process so that a student is not permitted to enroll unless he/she has met all the conditions or has met all except those for which he/she has a pending challenge or for which further information is needed before final determination is possible of whether the student has met the condition.
- F. Instructor's Formal Agreement to Teach the Course as Described. The District shall establish a procedure so that courses for which prerequisites or co-requisites are established will be taught in accordance with the course outline, particularly those aspects of the course outline that are the basis for justifying the establishment of the prerequisite or co-requisite. The process shall be established by consulting collegially with the local academic senate and, if appropriate, the local bargaining unit.

Review of Individual Courses

If the student's enrollment in a course or program is to be contingent on his or her having met the proposed prerequisite(s) or co-requisite(s), then such a prerequisite or co-requisite must be established as follows. If enrollment is not blocked, then what is being established is not a prerequisite or co-requisite but,

rather, an advisory on recommended preparation and must be identified as such in the schedule and catalog.

Prerequisites or co-requisites may be established only for any of the following purposes:

- A. the prerequisite or co-requisite is expressly required or expressly authorized by statute or regulation; or
- B. the prerequisite will assure, consistent with Title 5 Section 55002, that a student has the skills, concepts, and/or information that is presupposed in terms of the course or program for which it is being established, such that a student who has not met the prerequisite is highly unlikely to receive a satisfactory grade in the course (or at least one course within the program) for which the prerequisite is being established; or
- C. the co-requisite course will assure, consistent with Title 5 Section 55002, that a student acquires the necessary skills, concepts, and/or information, such that a student who has not enrolled in the co-requisite is highly unlikely to receive a satisfactory grade in the course or program for which the corequisite is being established; or
- D. the prerequisite or co-requisite is necessary to protect the health or safety of a student or the health or safety of others.

Establishing advisories does not require all the following steps.

- E. Advisories on Recommended Preparation
The District may recommend that a student meet a standard of readiness at entry only if recommended by the faculty in the discipline or department and by the Curriculum Committee as provided above.
Prerequisites establishing communication or computational skill requirements may not be established across the entire curriculum unless established on a course-by-course basis.
- F. Limitations on Enrollment
The types of limitation on enrollment specified below may only be established through the curriculum review process by the discipline or department faculty and the Curriculum Committee specified above including the requirement to review them again at least every six years; for example, as part of program review. The following requirements must also be met in order to establish these particular limitations on enrollment.
 1. Performance Courses. The District may establish audition or try-out as a limitation on enrollment for courses that include public performance or intercollegiate competition such as but not limited to band, orchestra, theater, competitive speech, chorus, journalism, dance, and intercollegiate athletics provided that:
 - a. For any certificate or associate degree requirement which can be met by taking this course, there is another course or courses which satisfy the same requirement; and

Courses with prerequisites, corequisites, or limitations on enrollment are identified in the Schedule of Classes and in the College Catalog which can be purchased in

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The spirit of the principles of community policy will be applied to all District employees, students, and volunteers. Conduct by employees or students that violate this policy may be addressed in accordance with appropriate disciplinary procedures. (BP 3440, 5/20/14)

Remedial Coursework Limitations

San Joaquin Delta College provides remedial coursework (basic skills classes) designed to prepare students to succeed in degree credit courses. In line with Title 5 of the California Administrative Code, Section 55756.5, Delta College limits units a student may earn in remedial courses to 30 semester units. Basic Skills courses are defined in Section 55502, as courses in reading, writing, computation, learning skills, study skills, and English as a second language, which are designated by a community college district as non-degree credit courses pursuant to Section 55002(b); however, all remedial courses taken by students enrolled in English as a second language course and students identified by the District for learning disabled programs are exempted. The District permits waivers of the 30-unit limit on basic skills courses. The procedure is part of the Satisfactory Academic Progress Guidelines for Financial Aid recipients. (BP/AP 4222, 5/20/08 and AP 5130, 6/11/15)

Scholastic Honors

Students who complete 12 or more graded (A,B,C,D, or F) units in a semester with a grade point average of 3.0 or above will be eligible for scholastic distinction for that semester.

President's Honor List

Eligible students who earn a grade point average of 3.7 or above will receive Presidential Honors for that particular term.

Dean's Honor List

Eligible students who earn a grade point average of not less than 3.0 or greater than 3.69 will receive Dean's Honors for that particular term.

Scholastic Probation and Dismissal

Academic Probation

Academic Probation: A student shall be placed on academic probation if he/she has attempted a minimum of 12 semester units of work and has a cumulative grade point average of less than 2.0.

Progress Probation

Progress Probation: A student shall be placed on progress probation if he/she has enrolled in a total of at least 12 semester units and the percentage of all units in which the student has enrolled, for which entries of "W," "I," "NC," and "NP" were recorded, reaches or exceeds fifty percent (50%).

Notification of Probation Status

1. First Semester Probation: Students who are placed on first semester academic or progress probation shall be notified of their status in writing by Admissions and Records. The notification will inform

them the student of their status, and of the intervention services provided by the College.

2. Second Semester Probation: Students who are placed on second semester academic or progress probation shall be notified of their status in writing by Admissions and Records. The notification will inform them of their status, loss of eligibility for the BOGG Fee Waiver and Priority Registration, and of the intervention services provided by the College.

Reinstatement after Dismissal

- A. Students must meet the following conditions for reinstatement.
 1. Meet with a Counselor before reinstatement to discuss and develop a prescriptive student education plan, success strategies, and the use of available College and community support services.
 2. During the first semester of reinstatement, course enrollment is limited to a maximum of twelve (12) semester units.
- B. Notification of Reinstatement: Students who are reinstated shall be notified by the Director of Admissions and Records.
- C. Reinstatement after Academic Dismissal: The student must complete the semester of reinstatement with a term GPA of at least a 2.0 or he/she will be dismissed. Students will be notified of their dismissal by Admissions and Records.
- D. Reinstatement after Progress Dismissal: The student must complete the semester of reinstatement without grades of "W," "I," "NC," and "NP" or he/she will be dismissed. Students will be notified of their dismissal by Admissions and Records.

(Policy 5203, 5/7/96 - Pending amendments BP/AP 4250 and 4250.1, 5/15/14, 6/12/14)

Scholastic Standards

The academic standards policy of Delta College is based on maintenance of an overall "C" average (GPA 2.0), the minimum standard of progress toward graduation or transfer.

Academic Record Symbols and Grade Point Average: Symbol Definition & Grade Points

A	Excellent – 4.0
B	Good – 3.0
C	Satisfactory – 2.0
D	Less than Satisfactory – 1.0
F	Failing – 0
P	Passing (At least satisfactory - units awarded not counted in GPA. Has the same meaning as "CR" as that symbol was defined prior to August 14, 2008.)

- MW** Withdrawal from a class or classes due to a call to active service in a United States military unit as set forth in AP 5075, Course Registration, Adds and Drops.
- Notations shall be prescribed on the academic record of the student who withdraws for military reasons within the guidelines of AP 5075, Course Registration, Adds and Drops.
- NP** No Pass (Less than satisfactory, or failing – units not counted in GPA. NP has the same meaning as “NC” as that symbol was defined prior to August 2008.)
- I** Incomplete
- Incomplete academic work for unforeseeable, emergency, and justifiable reasons at the end of the term may result in an "I" symbol being entered in the student's record. The condition for removal of the "I" shall be stated by the professor in a written record. This record shall contain the conditions for removal of the "I" and the grade assigned in lieu of its removal. This record must be given to the student with a copy on file with the Assistant Superintendent/Vice President of Student Services until the "I" is made up or the time limit has passed. A final grade shall be assigned when the work stipulated has been completed and evaluated, or when the time limit for completing the work has passed. The "I" may be made up no later than one semester following the end of the term in which it was assigned. The "I" symbol shall not be used in calculating units attempted nor for grade points. The student, under extenuating circumstances, may request an extension of the time limit for making up the "I" by submitting a General Petition for consideration.

- IP** In Progress
- The "IP" symbol shall be used only in those courses which extend beyond the normal end of an academic term. It indicates that work is "in progress," but that assignment of an evaluative symbol (grade) must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative symbol (grade) and unit credit shall be assigned and appear on the student's permanent record for the term in which the course is completed. The "IP" shall not be used in calculating grade point averages. If a student enrolled in an "open-entry, open-exit" course is assigned an "IP" at the end of an attendance period and does not re-enroll in that course during the subsequent attendance period, the appropriate faculty will assign an evaluative symbol (grade) in accordance with subsection "A" of this policy to be recorded on the student's permanent record for the course.
- RD** Report Delayed
- The "RD" symbol may be assigned only by the Assistant Superintendent/Vice President of Student Services. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages.
- X** Credit by Examination
- The "X" shall be added to the evaluative symbol recorded when a course is challenged by examination.
- W** Withdrawal (Authorized)
- Withdrawal from a class or classes shall be authorized by conditions set forth in AP 5075, Course, Registration Adds, and Drops.
- Notations shall be prescribed on the academic record of the student who withdraws within the guidelines of AP 5075, Course, Registration Adds, and Drops.

*Non-degree applicable courses are not included in the GPA. (BP/AP 4230, 03/21/13 - AP 5075, 12/13/12)

Sexual Harassment Policy

All forms of harassment are contrary to basic standards of conduct between individuals and are prohibited by state and federal law, as well as this policy, and will not be tolerated. The District is committed to providing an academic and work environment that respects the dignity of individuals and groups. The District shall be free of sexual harassment and all forms of sexual intimidation and exploitation. It shall also be free of other unlawful harassment, including that which is based on any of the following statuses: national origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because he or she is perceived to have one or more of the foregoing characteristics.

The District seeks to foster an environment in which all employees and students feel free to report incidents of harassment without fear of retaliation or reprisal. Therefore, the District also strictly prohibits retaliation against any individual for filing a complaint of harassment or for participating in a harassment investigation. Such conduct is illegal and constitutes a violation of this policy.

All allegations of retaliation will be swiftly and thoroughly investigated. If the district determines that retaliation has occurred, it will take all reasonable steps within its power to stop such conduct. Individuals who engage in retaliatory conduct are subject to disciplinary action, up to and including termination or expulsion. Any student or employee who believes that he or she has been harassed or retaliated against in violation of this policy should immediately report such incidents as prescribed in the District's Administrative Procedures (See AP 3435, Unlawful Discrimination and Harassment Complaint Procedure and Investigative Process).

Supervisors are mandated to report all incidents of harassment and retaliation that come to their attention. This policy applies to all aspects of the academic environment, including but not limited to classroom conditions, grades, academic standing, employment opportunities, scholarships, recommendations, disciplinary actions, and participation in any community college activity. In addition, this policy applies to all terms and conditions of employment, including but not limited to hiring, placement, promotion, disciplinary action, layoff, recall, transfer, leave of absence, training opportunities and compensation. (BP 3430 6/21/05, 05/17/16)

Definition of Sexual Harassment

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal, visual, or physical conduct of a sexual nature made by someone from or in the work or educational setting, under any of the following conditions:

- submission to the conduct is made a term or condition of an individual's employment, academic status, or progress;
- submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual;
- the conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile or offensive work or educational environment; or
- submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through the community college.

For the purpose of further clarification, sexual harassment includes many forms of offensive behavior and includes gender based harassment of a person of the same sex as the harasser. The following is a partial list:

1. Making unsolicited written, verbal, physical, and/or visual contacts with sexual overtones. (Examples of possible sexual harassment that appear in a written form include, but are not limited to: suggestive or obscene letters, notes, and invitations.) (Examples of possible verbal sexual harassment include, but are not limited to: leering, gestures, display of sexually aggressive objects or pictures, cartoons, or posters.)
2. Continuing to express sexual interest after being informed that the interest is unwelcome.
3. Making reprisals, threats of reprisal, or implied threats of reprisal following a rebuff of harassing behavior. The following are examples of conduct in an academic environment that might be found to be sexual harassment: implying or actually withholding grades earned or deserved; suggesting a poor performance evaluation will be prepared; or suggesting a scholarship recommendation or college application will be denied.
4. Engaging in explicit or implicit coercive sexual behavior within the work environment which is used to control, influence, or affect the employee's career, salary, and/or work environment.
5. Engaging in explicit or implicit coercive sexual behavior within the educational environment that is used to control, influence, or affect the educational opportunities, grades and/or learning environment of a student.
6. Offering favors or educational or employment benefits, such as grades or promotions, favorable performance evaluations, favorable assignments, favorable duties or shifts, recommendations, reclassifications, etc., in exchange for sexual favors. (AP 3430, 12/7/09, 3/10/16, and AP 3435, 9/13/11, 5/21/13, 3/10/16)

Complaint Procedures

Any individual who believes that he or she has been sexually harassed and wishes to file a complaint or has questions about the College's harassment policy should contact the Office of Human Resources and Employee Relations at (209) 954-5059. Every effort will be made to ensure that confidentiality is maintained and that due process is followed with respect to both parties. If evidence indicates that a complainant intentionally made false allegations, or made them maliciously, or that vexatious or otherwise unwarranted use of the complaint procedures took place, the District shall take appropriate disciplinary action. Procedures for filing a complaint of sexual harassment are described in Administrative Procedure 3430 and 3435. Copies of this procedure, any necessary forms, and the policy may be obtained from the Student Advocate or the Office of Human Resources. (BP 3430, 5/17/2016, AP 3430, 3/10/16, AP 3435, 9/13/11, and AP 3435.1, 12/7/09)

Smoking Policy

Smoking and the use or sale of tobacco products are prohibited on all District property. Smoking is also prohibited in all District owned and leased vehicles.

To enforce smoking and tobacco control regulations and procedures, the Superintendent/President is authorized to:

- Set enforcement standards for all District facilities and campuses.
- Impose a fine for first, second, third, and subsequent violations. The amount of the fines as outlined in Administrative Procedure 3570 (AP 3750) shall be approved by the Board of Trustees and cannot exceed one hundred dollars (\$100.00). Funds shall be allocated to include, but not limited to, the designated enforcement agency, education and promotion of the policy, and tobacco cessation treatment options.
- Direct that the District post signage stating its tobacco use policy on campus Inform employees and students of the tobacco use policy and enforcement measures.

(AP 3570 Smoking on Campus; BP/AP 3570, 10/20/09, 12/17/13)

Student Affirmative Action

The College will provide equal educational opportunity for all students, regardless of race, religion, color, national origin, ancestry, disability, medical condition, marital status, age (over 40), gender, sexual orientation, or status as a Vietnam-era veteran, who have met admission qualifications and course/program prerequisites.

The College will aggressively pursue affirmative action goals and objectives by continuing leadership and programs to provide the educational opportunities

available to all historically under-represented groups in all areas of instruction.

Through adoption of a Student Equity Plan, the College will establish and continually revise goals for recruitment of historically under-represented groups.

The California Community Colleges Board of Governors has determined that, on a state-wide basis, ethnic minorities, women, and persons with disabilities are historically under-represented groups. (Title 5 section 53001) (Policy 5060, 2/6/96)

Student Conduct

A student enrolled at San Joaquin Delta Community College District assumes an obligation to conduct him/herself in a manner compatible with the District's function as an educational institution. This includes the obligation to act with honesty and integrity. Students are expected to treat members of the campus community, District property, and personal property of members of the campus community with respect and to take care not to cause harm to others or their property. Students are expected to obey all federal and state laws as well as all campus rules and regulations. Students are obligated to treat all campus activities with respect so as not to disturb the opportunity for faculty and staff to perform their duties and for students to gain the full benefits of participation in their classes and other campus programs. For the purpose of this regulation, the term "student" includes applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. (BP 5500 6/17/14; AP 5500, 5/15/14)

Student Conduct Standards

For the purpose of this procedure, the term "student" includes applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending.

Students are expected to obey all federal and state laws as well as all District policies and procedures. Students are obligated to treat all District activities with respect so as not to disturb the opportunity for faculty and staff to perform their duties and for students to gain the full benefits of participation in their classes and other District programs.

A student may be disciplined, and sanctions imposed, in accordance with the procedures set forth in Administrative Procedure 5520, Student Discipline, relating to attendance or District activity. Student misconduct constituting good cause for imposition of discipline includes, but is not limited to, the following:

1. Academic Misconduct – Plagiarism (including plagiarism in a student publication), cheating, or other forms of academic dishonesty, intended to gain unfair academic advantage. The following list of offenses is not intended to be fully exhaustive of all potential instances of academic dishonesty, cheating, plagiarism or falsification. Faculty and administrators may identify other acts constituting any of said types of student misconduct.
 - a. Academic Dishonesty/Plagiarism: presenting work, words, ideas, theories, etc., derived in whole or in part from a source external to the student as though they are the student's own efforts. Examples of plagiarism include, but are not limited to the following:
 1. Failing to use proper citations as acknowledgment of the true source of information found in a paper, written or oral examination, or any other academic exercise.
 2. Presenting any work completed in whole or in part by any individual or group other than the student, as though the work is the student's own, in any academic exercise.
 3. Buying, selling, bartering, or in any other fashion obtaining or distributing material to be used fraudulently as part of any academic exercise.
 4. Disseminating or receiving answers, data, or other information by any means other than those expressly permitted by the professor as part of any academic exercise.
 5. Copying answers, data, or other information (or allowing others to do so) during an examination, quiz, laboratory experiment, or any other academic exercise in which the student is not expressly permitted to work jointly with others.
 6. Assuming another individual's identity or allowing another person to do so on one's own behalf for the purpose of fulfilling any academic requirement or in any way enhancing the student's grade or academic standing.
 7. Using any device, implement, or other form of study aid during an examination, quiz, laboratory experiment, or any other academic exercise without the faculty member's permission.
 - b. Other Academic Misconduct: Alteration, distortion, forgery, falsification, or fabrication of data, records, or any information relevant to the student's participation in any course or academic exercise or tampering with such information as collected or distributed by the faculty member.
 1. Falsifying, or attempting to falsify, attendance records, graded exercises of any kind, or any information or document intended to excuse the student from participation in any academic exercise.
2. Inventing, fabricating, or falsifying data as part of the completion of any academic exercise.
3. Knowingly furnishing false information (or facilitating the furnishing of false information) to a District official, faculty member, or staff member or campus office.
4. Forgery, alteration, or misuse of a District document, key, or identification instrument.
5. Misrepresenting one's self to be an authorized agent of the District or one of its auxiliaries.
2. Other Misconduct (Non-Academic):
 - a. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of others participating in District activities, to property within the District community or poses a significant threat of disruption or interference with District operations.
 - b. Dishonesty (Non-academic dishonesty), lying, corruption, deceit, fraud or deception.
 - c. Unauthorized entry into, presence in, use of, or misuse of District property.
 - d. Willful, material and substantial disruption or obstruction of a District-related activity, or any on-campus activity.
 - e. Participating in an activity that substantially and materially disrupts the normal operations of the District, or infringes on the rights of others participating in District activities.
 - f. Willful, material and substantial obstruction that impedes the flow of pedestrian or other traffic, on or leading to District property or at a District-activity held at a remote location.
 - g. Disorderly, lewd, indecent, or obscene behavior on District property or at a District activity, or directed toward a others participating in District activities.
 - h. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, open and persistent defiance of the authority of, or persistent abuse of, District personnel.
 - i. Encouraging, permitting, or assisting another person to do any act that could subject him or her to discipline.
 - j. Engaging in expression which is obscene; libelous or slanderous; or which incites students so as to create a clear and present danger of the commission of unlawful acts on the District premises, or the violation of lawful District administrative procedures, or the substantial disruption of the orderly operation of the District.
 - k. Conduct that threatens, endangers, or harms the health or safety of any person within the District community; including communicable disease and the failure to address or treat communicable disease, infection or infestation (including insects), strong body odor of alcohol or

marijuana emanating from one's person, spitting, physical abuse, physical injury, threats, intimidation, harassment, stalking, sexual harassment, indecent exposure, sexual battery, rape or other types of sexual misconduct.

- l. Engaging in harassing or discriminatory behavior based on religion, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation of any person, or status as a veteran or other status protected by law.
- m. Hazing or conspiracy to haze is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of a college (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of a College. The term "hazing" does not include customary athletic events or District sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
- n. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and District procedures) or the misuse of legal pharmaceutical drugs (BP/AP 3550).
- o. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and District procedures), or public intoxication while on District property and/or at a District activity (BP/AP 3560) at a remote location.
- p. Smoking, use or sale of tobacco-related products in any area prohibited by law or by regulation of the District (BP/AP 3570).
- q. Theft or extortion of property or services from the District or others participating in District activities, misappropriation of District resources, or knowing receipt of any stolen property including that of the District or private property while on District property and/or at a District activity at a remote location.
- r. Unauthorized destruction or damage to District or property under the use of the District (BP/AP 6520).
- s. Possessing, selling, using or misusing, or furnishing, firearms or guns, replicas, BB, pellet or soft air guns, ammunition, explosives, fireworks, knives, swords, tasers, stun guns or other weapons, dangerous chemicals, or other dangerous objects (without the prior authorization of the District Superintendent/President or designee) on District property or at a District activity at a remote location.
- t. Unauthorized recording, photographing, dissemination, or publication of academic presentations (including handwritten notes) for any purpose.
- u. Possessing, selling, using or misusing, or furnishing pornographic materials or items.
- v. Misuse of District computer facilities, its network, or resources including:
 1. Unauthorized entry into a file for any purpose; including electronic sabotage, i.e., downloading virus software or any other method of sabotaging District computers.
 2. Unauthorized transfer of a file.
 3. Use of the identification or password of other individuals.
 4. Interference with the work of a member of the District community, interference with normal District operations, or violation of copyright laws.
 5. Sending obscene or intimidating and abusive messages through the District's network services.
 6. Accessing, viewing or downloading any type of lewd, obscene or pornographic materials, and/or sharing or sale of said materials.
 7. Violation of the District's computer use policy.
- w. Violation of any published District policy, rule, regulation or Superintendent/President's or designee's directive.
- x. Failure to comply with directions of, or interference with, any District official or any public safety officer while acting in the performance of his/her duties.
- y. Falsification, distortion, or misrepresentation of information related to a student discipline matter.
- z. Initiation of a student discipline proceeding in bad faith.
- aa. Disruption or interference with the orderly progress of a student discipline proceeding:
 1. Attempting to discourage another from participating in the student discipline matter.
 2. Attempting to influence the impartiality of any participant in a student discipline matter.
 3. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
 4. Failure to comply with the sanction(s) imposed under a student discipline proceeding.

Any other conduct that threatens the health, safety or security of the campus community, or substantially disrupts the functions or operation of the District is within the jurisdiction of this Article, regardless of whether it occurs on or off campus, and whether or not it is specifically described above.

Nothing in this procedure may conflict with Education Code Section 66301, which prohibits disciplinary action against students based on behavior protected by the First Amendment. Students who engage in misconduct as described herein are subject to the procedures outlined in Administrative Procedure, AP 5520 Student Discipline, for determination of misconduct and imposition of sanctions. Violations must be reported on Form 5510 Student Misconduct Report (available on the District's Student Services Division Web page). (AP 5500 5/14/14)

Student Discipline and Appeal Procedure

The purpose of this procedure is to provide a prompt, fair and equitable means to address student misconduct. The procedure shall be implemented in a manner providing students with all due process rights to which they are entitled under state and federal law, and not for the purpose of retaliation. Students alleged to be guilty of misconduct may also be subject to civil proceedings in a court of law that may be initiated by the District, other agencies or individuals. Students alleged to have violated state or federal law may also be subject to criminal procedures by agencies with jurisdiction.

This administrative procedure shall not be implemented in a manner that will infringe in any way on the rights of students to engage in free expression as protected by the state and federal constitutions, and by Education Code Section 76120, and will not be used to punish expression that is protected.

A. Definition of Terms:

1. Administrative Warning: A warning issued to a student by the Discipline Officer or designee, that further violation of District policy will result in serious consequences.
2. Administrative Withdrawal: Withdrawal from a course or courses by order of an administrator of the District, usually as a result of violation of District policy.
3. Board: The Board of Trustees of the San Joaquin Delta Community College District.
4. Day: A day during which the District is in session and regular classes are held, excluding Saturdays, Sundays and holidays.
5. Discipline Officer: The Superintendent/President's appointee to administer discipline for student behavior that violates the Student Code of Conduct in accordance with the requirements for due process under federal and state laws and regulations (BP/AP 5500 Standards of Student Conduct). Discipline Officer Behavioral Misconduct, Assistant Superintendent/Vice President of Student Services, or his/her designee (Dean of Enrollment Services and Student Development). Academic Misconduct, Assistant Superintendent/Vice President of Instruction, or his/her designee (Dean of Student Learning and Assessment).
6. District: The San Joaquin Delta Community College District.
7. Expulsion: Permanent dismissal or exclusion of the student by the Board of Trustees from all classes and activities of the District. Any student expelled pursuant to this procedure shall be permanently prohibited from being enrolled in any community college facility in the District or participating in any class, program, extra-curricular activity, or any event on or off campus that is affiliated with the District. (Education 37 Code Section A.7., A.11. and A.12.)
8. Hearing Officer: The Superintendent/President shall appoint a Hearing Officer to assist students with the disciplinary appeal process and/or grievance process, coordinate hearings for appeals to disciplinary suspensions and/or student grievances (BP/AP 5530), and train Hearing Panel members to facilitate fair and efficient hearings. The Hearing Officer shall remain neutral. This person may be the Assistant Superintendent/Vice President of Student Services, or designee, usually the Dean of Counseling and Special Services.
9. Notice of Intended Discipline: Written Notice to a student that a misconduct report has been received by the Discipline Officer.
10. Notice of Disciplinary Decision: Written Notice to a student that a decision has been made on the type of sanction that will be imposed for violation of the Student Code of Conduct. In cases of long-term suspension or expulsion, the student will receive notification from the Superintendent/President.
11. Probation (Misconduct): Misconduct Probation is a period of provisional attendance for violations of District policy and procedures (BP/AP 5500), during which, any additional misconduct will likely result in more serious sanctions and possible suspension from the District. A specific period of time is designated and may include specific restrictions and extra requirements on the student that vary with each case. 56
12. Probation (Academic): Academic or Progress Probation, (See BP/AP 5055), which relates to satisfactory educational progress; i.e., grades or coursework.
13. Professor/Faculty: An academic employee of the District, in whose class a student is enrolled, or Counselor who is providing or has provided services to a student, or other academic employee who has responsibility for a student's educational program.
14. Removal from Class: Exclusion of a student, by a professor/faculty member, barring student from class for the day of the removal and the next class

meeting, equal to two (2) class sessions. (Education Code A.7., B.5.)

15. **Removal from the District Property:** The action of the professor, administrator, or classified staff of the District to discipline a student by removal/exclusion from classrooms, offices, and other areas of the campus.
16. **Student Advocate:** A student appointed by the Associated Student Body Government (ASBG), who may assist the student in advisement on discipline policy and organization of documents, presentations and related materials for a disciplinary appeal hearing or grievance claim.
17. **Student:** Applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending.
18. **Superintendent/President:** The Superintendent/President of the San Joaquin Delta Community College District.
19. **Suspension, Types of:**
 - a. **Immediate Suspension/Withdrawal of Consent to Remain on Campus:** Withdrawal of consent by the Superintendent/President or designee, usually the Assistant Superintendent/Vice President of Student Services (AS/VPSS), for any person to remain on campus in accordance with California Penal Code Section 626.4, where the Superintendent/President or designee, has reasonable cause to believe that such person presents a threat to the safety of the campus community or has willfully disrupted the orderly operation of the campus. 85
 - b. **Short-term Suspension:** Exclusion of the student for good cause from one or more classes for a period of up to ten (10) consecutive days of instruction by the Superintendent/President or designee. Any student suspended pursuant to this procedure shall be prohibited from participating in any class, program, extra-curricular activity, or any event, on or off campus that is affiliated with the District. 91
 - c. **Long-term Suspension:** Exclusion of the student for good cause from one or more classes for the remainder of the school term, or from all classes and activities of the College for one or more terms by the Superintendent/President or designee, either the Dean of Enrollment Services and Student Development, or the Dean of Student Learning and Assessment, depending upon the type of infraction. Any student suspended pursuant to this procedure shall be prohibited from being enrolled in the District or participating in any class, program, extra-curricular activity, or any event, on or off campus that is affiliated with the District (Education Code A.5., A.10., A.11.).

20. **Time Limits:** Any times specified in this procedure may be shortened or lengthened on a case-by-case basis.
21. **Written or Verbal Reprimand:** An admonition to the student to cease and desist from conduct determined to violate the standards of Student Conduct. A record of the fact that a verbal or written reprimand has been given may become part of a student's permanent record at the College.

B. Disciplinary Reporting Process:

1. **Removal (Dismissal) from Class or Other Area:**
 - a. A professor, administrator, or classified staff of the District may discipline a student by Removal from Class or other areas of the District. Such decision shall be at the sole discretion and professional judgment of the District employee. All such decisions shall be final. Decisions by professors, administrators, or classified staff of the District to impose removal from class or other areas on a student shall not limit the District from imposing further discipline as described herein.
 - b. Professors, administrators, or classified staff of the District imposing Removal from Class or other areas of the District for a two day removal or more consecutive days on a student shall file a written report, Form 5510 Student Misconduct Report (available on the District's Student Services Division Web page), and submit it to the appropriate Discipline Officer, documenting the reasons the discipline was imposed.
2. **Reporting Violations:**
 - a. **Academic Dishonesty Violations:** Plagiarism, cheating, falsifying information for an academic exercise, and other forms of academic misconduct. Faculty, administrators, or classified staff must complete a Misconduct Reporting Form (Form 5510 available on the District's Student Services Division Web page), and submit it to the Dean of Student Learning and Assessment.
 - b. **Behavioral Violations:** Furnishing false information to a District official, forgery, willful disruption. Faculty, administrators, or classified staff must a Misconduct Reporting Form (Form 5510 available on the District's Student Services Division Web page), and submit it to the Dean of Enrollment Services and Student Development.
 - c. **Safety Concerns or Extremely Disruptive Behavior:** Disorderly, lewd, or indecent conduct, dangerous or illegal activities, theft, drugs, alcohol or tobacco issues. Faculty, administrators, or classified staff should contact District Police Services, as well as complete a Misconduct Reporting Form (Form 5510 available on the District's Student Services Division Web page), and submit to the Dean of Enrollment Services and Student Development. When Police Services are included, a District Police Report will be generated and submitted

Assistant Superintendent/Vice President of Student Services, as well as the Dean of Enrollment Services and Student Development.

3. Notice to Student:

- a. When a Misconduct Reporting Form or District Police Report is received by the Discipline Officer, a Notice of Intended Discipline will be generated and sent to the student by postal mail at the address on record, as well as to the student's Delta email address.
- b. The Notice of Intended Discipline shall include a specific description of the misconduct; a short statement of the facts supporting a determination of misconduct; type of possible disciplinary action; the right of the student to meet with the Discipline Officer to discuss the matter or to respond in writing, and must be provided to the student within ten (10) days of the date on which the conduct took place, was reported to the Discipline Officer, or the District reasonably learned of the conduct.
- c. The student has ten (10) business days from the date of the Notice of Intended Discipline to schedule an appointment and/or respond in writing. This does not mean that the student has to "meet" within ten (10) days. The student must "respond" to the Notice within this timeframe.
- d. The meeting must occur no sooner than five (5) days after the Notice of Intended Discipline (Section C.1) is provided. At the meeting, the student must again be told the facts leading to determination that discipline is warranted. The student will be given an opportunity to respond verbally, in writing, or provide information to dispute the report. If the student chooses not to meet, or fails to attend a meeting with the Discipline Officer, or fails to submit a written response after being given a reasonable opportunity to do so, the student waives their right to provide input or rebuttal. The Discipline Officer may move forward to take disciplinary action, which may be an Administrative Warning, Misconduct Probation, or Suspension, depending on the severity of the violation.
- e. The Notice of Disciplinary Decision will be generated and sent to the student by postal mail at the address on record, as well as to the student's Delta email address, and must be provided to the student within ten (10) days of the date of the student's meeting; or, if the student fails to meet with the Discipline Officer during the allotted time, the Discipline Officer may issue the Notice of Disciplinary Decision.
- f. The Notice shall include a specific description of the misconduct, a short summary of the determination, and type of disciplinary action taken. The Discipline Officer shall provide the student with his or her decision to impose an administrative warning, misconduct probation, or short-term suspension, or no further action. When discipline is imposed, the Notice of

Disciplinary Decision will include the length of time of the probation, suspension or the nature of the lesser disciplinary action. The decision of the Discipline Officer on a short-term suspension shall be final. In cases of Long-Term Suspension or Expulsion, the Notice of Disciplinary Decision will include the right to appeal the Discipline Officer's decision (Section F).

C. Suspension or Expulsion:

Before any disciplinary action to impose a short-term or long-term suspension or expulsion on a student, the following will apply:

1. Short-term Suspension: Within ten (10) days after meeting with the Discipline Officer, as described in Section B.3., or if no meeting is held, after ten (10) days have passed since the Notice of Intended Discipline was served, the Discipline Officer shall provide the student with his or her decision to impose a short-term suspension. Where short-term suspension is imposed, the Notice will include the length of time of the suspension or the nature of the lesser disciplinary action. The decision of the Discipline Officer on a short-term suspension shall be final.
2. Long-term Suspension: If the decision is to impose a long-term suspension, before a long-term suspension is imposed the Notice of Disciplinary Decision will include the right of the student to request a formal appeal hearing and a copy of this policy describing the procedure for an appeal hearing.
3. Expulsion: Within ten (10) days after the meeting described in Section B.3., or if no meeting is held, within ten (10) days of serving the Notice of Intended Discipline in Section C.1., the Discipline Officer will review the evidence with the Assistant Superintendent/Vice President of Student Services to decide whether to recommend expulsion to the Superintendent/President. The Assistant Superintendent/Vice President of Student Services will notify the Superintendent/President of his/her Recommendation of Expulsion, and the Superintendent/President will provide his or her recommendation to the Board of Trustees. Written Notice of Disciplinary Decision to recommend expulsion shall be provided to the student by the Discipline Officer. The Notice will include the right of the student to request a formal disciplinary appeal hearing before expulsion is recommended to the Board of Trustees, and shall include a copy of this policy describing the procedure for an appeal hearing.

D. Immediate Suspension/Withdrawal of Consent to Remain on Campus

Ordered by the Superintendent/President, or designee (in most cases the Assistant Superintendent/Vice President of Student Services) when he or she concludes that immediate suspension is required to

protect lives or property and to ensure the maintenance of order.

1. The Superintendent/President or designee, usually the Assistant Superintendent/Vice President of Student Services, or his/her designee, will make reasonable attempt to notify any person for whom there is a reasonable belief that the person has willfully disrupted the orderly operation of the campus, that Consent to Remain on Campus has been withdrawn, and that he or she must promptly leave or be escorted off campus. If consent is withdrawn by the Assistant Superintendent/Vice President of Student Services, a written report must be promptly made to the Superintendent/President.
2. Any person as to whom Consent to Remain on Campus has been withdrawn, who knowingly reenters the campus during the period in which consent has been withdrawn, except to come for a pre-arranged meeting or hearing, is subject to arrest [Penal Code Section 626.4].
3. In cases where an immediate suspension has been ordered, the time limits contained in this procedure shall not apply, and, where a long-term suspension or expulsion is recommended, reasonable opportunity for a formal hearing shall be afforded to the student within ten (10) days. Nothing shall prohibit immediate suspension, where immediate suspension is required, provided a reasonable opportunity for a hearing is afforded the student within ten (10) days.
4. The disciplinary action may include, but need not be limited to, suspension, dismissal, or expulsion [Education Code Section 66017]. The hearing will be conducted in accordance with the provisions of this procedure related to immediate suspensions.

E. Hearing Panel Appointments:

At the beginning of the academic year, the Superintendent/President, the presidents of the Academic Senate, Management Senate, Classified Senate, and Associated Student Body Government (ASBG) shall each establish a list of at least five (5) persons who will serve on Disciplinary Appeal Hearing Panels and/or Student Grievance Hearing Panels. Persons who accept appointment to one of these hearing panels, agree to make themselves available when a hearing panel must be convened.

1. Hearing Panels for any Disciplinary Appeal action shall be composed of one (1) Superintendent/President appointee, one (1) administrator, one (1) faculty member, one (1) classified staff member, and one (1) student. The Superintendent/President or designee, usually the Dean of Counseling and Special Services, shall serve as the Hearing Officer, and shall compose Disciplinary Appeal Hearing Panels from the names on these lists.
2. Hearing Panels for any Student Grievance action shall be composed of one (1)

Superintendent/President appointee, one (1) administrator, one (1) faculty member, and one (1) student. When a Student Grievance is related to academic, grade-related issues, classified staff will not participate on the Student Grievance Hearing Panel. The Superintendent/President or designee, usually the Dean of Counseling and Special Services, shall serve as the Hearing Officer, and shall compose Student Grievance Hearing Panels from the names on these lists.

3. Any District employee or student who has any personal involvement in the matter to be decided, who is a necessary witness, or who could not otherwise act in a neutral manner, shall not serve on that hearing panel, and must recuse him or herself from the Hearing Panel.
4. Hearing Panel Chair(s): The Superintendent/President or designee, usually the Hearing Officer, shall appoint one (1) member of the panel to serve as the Chair. The decision of the Hearing Panel Chair shall be final on all matters relating to the conduct of the hearing, unless there is a vote by a majority of the other members of the panel to the contrary.
5. Hearing Panel Training: Annually, members appointed to serve on Disciplinary Appeal or Student Grievance Hearing Panels shall be trained on responsibilities; including, the requirements of Board Policy and Administrative Procedures in the area of student discipline, student grievances, effective hearing protocol, roles and responsibilities of panel members and the chair, and other issues bearing upon the integrity and effectiveness of these Hearing Panels.

F. Request and Scheduling of Disciplinary Appeal Hearing

1. Request for Disciplinary Appeal Hearing (for long-term suspension or expulsion only): Within five (5) days after the Notice of Disciplinary Decision by the Discipline Officer or designee, the student may request a formal appeal hearing. The request must be made in writing to the District's Hearing Officer on a Request for Disciplinary Appeal Hearing Form (Form 5525), which is available from the Hearing Officer.
2. When a student is removed by Immediate Suspension/Withdrawal of Consent to Remain on Campus, the Superintendent/President or designee, usually the Assistant Superintendent/Vice President of Student Services, shall notify the Hearing Officer that a reasonable opportunity for a hearing must be afforded the student within ten (10) days of the date of removal. The Hearing Officer shall be responsible for notifying and organizing the Disciplinary Appeal Hearing Panel. (Section A.15.a., D.3.)
3. Notice and Schedule of Disciplinary Appeal Hearing: The Hearing Officer will be responsible for notifying the student of the appeal hearing date, time and

location at least two (2) days in advance of the hearing. The formal hearing shall be held within thirty (30) days after a formal request for an appeal hearing is received.

4. Evidence/Hearing Materials: The student shall have access to all disciplinary evidence materials at least three (3) days in advance of the appeal hearing. In addition, the student must submit all rebuttal evidence materials three (3) days in advance of the appeal hearing. Any/all evidence submitted by the student less than three (3) days in advance of the hearing shall not be accepted.

G. Conducting the Disciplinary Appeal Hearing

1. The members of the Disciplinary Appeal Hearing Panel shall be provided with a copy of the Notice of Intended Discipline, Notice of Disciplinary Decision, evidence, written reports or statements, and any written response provided by the student before the hearing begins.
2. Evidence regarding the conduct described in the Notice of Intended Discipline, Notice of Disciplinary Decision, evidence, written reports or statements shall be presented by the District's Discipline Officer, or designee, or the District's General Counsel.
3. The District representative and the student may call witnesses and introduce oral and written testimony relevant to the issues of the matter. Witnesses may include administrators, faculty, classified staff members, or other students who have direct knowledge of the issues leading the recommendation for disciplinary action. District employees who have referred students for disciplinary action shall have the right to make a statement at the hearing in support of their referral and recommendations.
4. Formal rules of evidence shall not apply. Any relevant evidence shall be admitted if it is the sort of evidence upon which responsible persons are accustomed to rely in the conduct of serious affairs regardless of the existence of any common law or statutory rule which might otherwise exclude such evidence.
5. Unless the Disciplinary Appeal Hearing Panel determines to proceed otherwise, the District representative and the student shall each be permitted to make an opening statement. Thereafter, the District representative shall make the first presentation of evidence, followed by the student. The District representative may present a rebuttal statement and/or evidence after the student completes his or her evidence. The burden shall be on the District representative to prove by substantial evidence that the facts alleged are true.
6. The student may represent him or herself, and may also have the right to be represented by a person of his or her choice. The Disciplinary Hearing Panel may also request legal assistance. Any legal advisor provided to the hearing panel may sit with the panel in an advisory capacity to provide legal counsel, but shall not be a member of the panel.
7. Hearings shall be closed and confidential unless the student requests that it be open to the public. Any such request must be submitted in writing to, and received by, the Hearing Officer no less than five (5) days prior to the date of the hearing.
8. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the Hearing Panel agree otherwise. For purposes of this section, faculty, administrators, classified staff members, and students who referred the matter for disciplinary action shall not be considered witnesses and shall be allowed to be present within the closed hearing.
9. The District shall record the hearing either by audio or stenographic recording, which shall be the only recording made of the hearing. No witness who refuses to be recorded may be permitted to give testimony. In the event the hearing is audio-recorded, the Disciplinary Hearing Panel chair shall, at the beginning of the hearing, ask each person present to identify them by name; and, thereafter, shall ask witnesses to identify themselves by name. The recording shall remain in the custody of the District at all times, unless released to a professional transcribing or copying service. The student may request a copy of the recording. If the District causes the recording to be transcribed, the District shall provide a copy of the transcription to the student within one business day after receipt of the completed transcription by the District. However, the District is under no obligation to cause the recording to be transcribed.
10. All testimony shall be taken under oath. The Disciplinary Hearing Panel Chair, or court reporter, shall administer the oath. Written statements of witnesses, under penalty of perjury, shall not be used unless the witness is unavailable to testify. A witness who refuses to be audio-recorded is not considered to be unavailable. In other words, mere refusal by a witness to be recorded is not an acceptable excuse for submitting written testimony in lieu of verbal testimony.
11. Within five (5) days following the close of the hearing, the Disciplinary Hearing Panel Chair shall prepare and submit a Hearing Summary to the Superintendent/President. The Hearing Summary shall state whether or not the Hearing Panel recommends upholding or overturning the disciplinary action imposed upon the student. The Hearing Summary shall include specific factual findings regarding the accusation, specific conclusions regarding any student conduct found to constitute good cause for imposition of discipline, and shall be based only on the record of the hearing, and not on matters or evidence outside of that record. The record consists of the Notice of Intended Discipline, Notice of Disciplinary Decisions, evidence, written reports, the written response of the

student, if any, and the oral and written evidence produced at the hearing.

H. Final Decision on Suspension or Expulsion Matters

1. Within five (5) days following receipt of the Hearing Panel's recommended decision, the Superintendent/President shall render a written final decision. The Superintendent/ President may accept, modify or reject the factual findings and/or recommended discipline of the Hearing Panel. However, in no event may the Superintendent/ President impose discipline that is more severe than the discipline set forth in the Notice of Disciplinary Decision. If the Superintendent/President modifies or rejects the Hearing Panel's findings and/or recommended discipline, the Superintendent/President shall review the record of the hearing and prepare a new written decision which contains specific factual findings and conclusions. The Superintendent/President is entitled to determine and impose all forms of discipline, except for expulsion. The decision of the Superintendent/President shall be final with respect to all discipline that the Superintendent/President is authorized to impose.
2. Expulsion: If the Superintendent/President determines that expulsion is the appropriate discipline, the Superintendent/President shall make that recommendation to the Board of Trustees. Expulsion may be decided upon and imposed only by the Board of Trustees. (Education Code Section 72122).
3. The Board of Trustees shall consider any recommendation from the Superintendent/ President for expulsion at the next regularly scheduled meeting of the Board of Trustees after receipt of the recommended decision. The Board of Trustees shall consider an expulsion recommendation in Closed Session, unless the student has requested that the matter be considered in a public meeting in accordance with this procedure (Education Code Section 72122).
4. The student shall be notified of the date, time, and place of the Board of Trustees meeting in writing, by registered or certified mail or by personal service, at least three (3) days prior to the meeting. The student may, within forty-eight (48) hours after receipt of the Notice of Intended Discipline, request that the hearing be held as a public meeting. However, even if the student has requested that the Board of Trustees consider an expulsion recommendation in a public meeting, only consideration of the factual findings shall be conducted in Open Session. Deliberation on the appropriate discipline shall always be conducted in Closed Session. Further, the Board of Trustees will hold any discussion that might be in conflict with the right to privacy of any other student in Closed Session.

5. The Board of Trustees may accept, modify, or reject the findings, decisions and recommendations of the Superintendent/President. If the Board of Trustees modifies or rejects the decision, the Board of Trustees shall review the record of the hearing and prepare a new written decision which contains specific factual findings and conclusions. The decision of the Board of Trustees shall be final.

The final action of the Board of Trustees on the expulsion shall be taken at a public meeting, and the result of the action shall be a public record of the District. (AP 5520 5/15/14)

Student Rights, Grievances, and Grade Disputes

A. Purpose

The purpose of this procedure is to provide a prompt and equitable means of for resolving student grievances, a District decision or action has adversely affected his or her status, rights or privileges as a student. The procedures shall:

1. The exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120.
2. Infringement of any right specifically granted to the student by a duly established District rule or regulation.
3. Academic Grade Dispute Procedures, which are only allowed to the extent permitted by Education Code Section 76224(a), which provides, "When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the professor of the course and the determination of the student's grade by the professor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final."
 - Mistake - an unintentional errors or omissions made by a professor in calculating a student's grade, and/or clerical errors.
 - Fraud - the deliberate misrepresentation, of the truth to secure an unfair or unlawful gain.
 - Bad Faith - an intentional or malicious act that infringes on the rights of another.
 - Incompetence - Lack of ability, legal qualification, or fitness to discharge a required duty.

Prior to filing a grievance to dispute a grade, students shall request a grade change by completing a petition for Change to Academic Record within one year from the end of the term in which the grade was received (Refer to AP 4231, Education Code 76224, Title 5 Section 55025 for further details.)

B. Exclusions

This procedure does not apply to:

1. Student disciplinary actions, which are covered under separate Board Policy BP 5500 Standards of Student Conduct and Administrative Procedures, AP 5500 Standards of Student Conduct, Student Misconduct Report Form (Form 5510 available on the District's Student Services Webpage), and 5520 Student Discipline Procedures;
2. Challenges of Course or Program pre-requisites or co-requisites, which must be resolved through policies and procedures of the applicable academic department; and/or the, Matriculation Appeals Committee.
3. Financial Aid eligibility which must be appealed through the online appeal process on the District's Financial Aid, Scholarships & Veterans Services web page.
4. Parking Citations which must be appealed through the online appeal process on the District's Police Department webpage.
5. Police Citations (i.e., "tickets" for moving violations, alcohol, etc.) which must be directed to the criminal justice system (court) in the same way as any traffic violation.
6. Students with concerns regarding professional, clinical, standards or training issues within specialized programs must follow the specialized grievance procedures listed in the specific program handbook:
 - a. Law Enforcement Police Academy (Peace Officers Standards & Training - POST)
 - b. Nursing Program - Associate Degree and Vocational (Health Sciences Division)
 - c. Psychiatric Technician Program (Health Sciences Division)
 - d. Radiologic Technology Program (Health Sciences Division)
7. Unlawful Discrimination and Harassment complaints which must be handled through the District's Administrative Procedures (See AP 3535/AP 3535.1). Discrimination and Harassment Complaint Procedure and Investigative Process, available from the District's Human Resource and Employee Relations Office or on the College's web site.

C. Definition of Terms

1. Academic Grade Dispute/Grade Grievance: A claim by a student that his/her final grade was given by the professor in violation of Education Code Section 76224(a).
2. Day: Unless otherwise provided, day shall mean a day during which the District is in session and regular classes are held, excluding Saturdays and Sundays.
3. Grievance: A complaint related to the exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120; infringement of any right specifically granted to the student by a duly established District rule or regulation; or grade dispute that qualifies under

Education Code Section 76224(a). No other issues qualify as a grievance.

4. Grievant: The student who is filing a grievance.
5. Hearing Officer: The Superintendent/President shall appoint a Hearing Officer to assist students with the grievance process, coordinate hearings and/or student grievances (other than academic grade dispute grievance, AP 5530), and train Hearing Panel members to facilitate fair and efficient hearings. The Hearing Officer shall remain neutral. This person may be the Assistant Superintendent/ Vice President of Student Services, or designee, usually the Dean of Counseling and Special Services.
6. Hearing Panel: A panel that is composed of members appointed in accordance with this procedure.
7. Non-Participant: A non-participant is any person invited to attend the hearing by either party to the grievance, who may not participate in hearing discussions and only attends as an observer.
8. Party: The student or any person or persons named as responsible for the student's alleged grievance together with their representatives. "Party" shall not include the Hearing Panel, the District Hearing Officer or Non-Participants.
9. Respondent: Any person claimed by a grievant to be responsible for the alleged grievance.
10. Senator for Student Advocacy: A student appointed by the Associated Student Body Government (ASBG), who may assist the student a grievance policy and in organization of documents, grievance hearing presentation and related materials.
11. Student: A currently enrolled student, a person who has filed an application for admission, or a former student. A grievance by a non-student applicant (for admission to the College) shall be limited to a complaint regarding denial of admission. Former students shall be limited to grievances relating to course grades to the extent permitted by Education Code Section 76224(a).
12. Superintendent/President: The Superintendent/President of the San Joaquin Delta Community College District.
13. Time Limits: For good cause, the Hearing Officer or Panel may adjust time limits described in this procedure.

D. Informal Resolution (Other than Academic Grade Disputes)

1. A student, believed to have been adversely affected by the act of a professor, administrator or other staff of the District, must make a reasonable, good faith attempt to resolve the matter within ten (10) days of the alleged act. To this end, the student shall complete a Grievance Mediation Form (Form 5535, available on the District's Student Services Webpage) and then attempt to discuss the matter with the staff member involved, or with the staff

member's immediate supervisor, or the District administrator in charge of the program or department, usually a Dean or Director. Note: unless the student timely files a Grievance Mediation Form, the student shall be precluded from pursuing a formal resolution of the grievance as provided below.

2. An equitable solution should be attempted before persons directly involved in the case have stated official positions that might tend to polarize the dispute and render a solution more difficult. At no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a grievance has been filed, or the character of the informal discussion to strengthen the case for or against persons directly involved in the dispute, or for any purpose other than the settlement of the informal grievance
3. In the case of grievances related to Section A.1. Violation of the exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120, and/or Section A.2. Infringement of any right specifically granted to the student by a duly established District rule or regulation:
4. The District's Hearing Officer shall facilitate informal meetings and discussion between persons directly involved in a grievance at the outset of a dispute. In an attempt to resolve a grievance informally, the student may seek the assistance of the Associated Student Body Government's (ASBG's) Senator of Student Advocacy.
5. In the case of grievances related to Section A.3., Academic Grade Disputes, the student must first request a grade change by completing a Petition for Change to Academic Record (AP 4231) within one year from the end of the term in which the grade was received. (Refer to AP 4231, Education Code 76224, Title 5 Section 55052 for further details.) If the student has completed this process, see Section J. of this procedure.

E. Formal Resolution (Other than Academic Grade Disputes)

1. The burden shall be upon the grievant to prove by a preponderance of the evidence that the facts alleged are true and that a grievance has been established as specified in this procedure.
2. A Grievance Mediation Form (Form 5535 available on the District's Student Services Webpage) shall be filed by the student with the Hearing Officer within ten (10) days of the date that the student knew or should have known of the basis of the grievance. Failure of the student to file the completed grievance form within the specified time period shall constitute a waiver of any right to further proceedings.
3. Within ten (10) days following receipt of the Grievance Mediation Form, the Hearing Officer shall advise the student of his or her rights and responsibilities under these procedures.

4. If, at the end of five (5) days following the student's first meeting with the Hearing Officer, there is no resolution of the complaint which is satisfactory to the student, the student shall have the right to request a grievance hearing, by completing a Request for Grievance Hearing Form (Form 5540 available on the District's Student Services Webpage) and submit it to the Hearing Officer.
5. The Hearing Officer will perform a preliminary review of the Request for a Grievance Hearing to determine if the student has met the conditions to pursue a formal hearing.
6. If the Hearing Officer determines that any of the grounds for a grievance have not been satisfied, the Hearing Officer will notify the student in writing that the request for a grievance hearing has been rejected, and state the specific reason(s) for the rejection.
7. If the Hearing Officer determines that all the conditions for a grievance hearing have been met, the Hearing Officer shall notify the student of the hearing date, time and location at least two (2) days in advance of the hearing. At this time, the person(s) against whom the grievance is filed shall be notified of the status of the grievance, and shall be given a copy of the Grievance Mediation and Request for Grievance Hearing forms, along with any other documentation that has been provided.

F. Determination to Grant or Deny a Request for Grievance Hearing (Other than Academic Grade Disputes)

1. The formal hearing shall be held within fifteen (15) days after a formal request for a hearing is received. Within ten (10) days following receipt of the Request for Grievance Hearing, the Hearing Officer shall notify the Hearing Panel members.
2. At a regularly scheduled meeting of the Hearing Panel, the panel shall first meet in private, without the parties present, to review the Request for Grievance Hearing form, and determine if there are sufficient grounds for a hearing based on the following:
 - a. The grievant is a student as defined in these procedures, which include applicants and former students;
 - b. The statement contains facts which, if true, would constitute a grievance under these procedures;
 - c. The grievant is personally and directly affected by the alleged grievance;
 - d. The grievance was filed in a timely manner;
 - e. The grievance clearly is not without foundation and has not been filed for purposes of harassment.
3. If the Hearing Panel finds that the request satisfies each of the requirements, the Hearing Panel Chair shall notify the parties that the Grievance Hearing will proceed.

4. If the grievance does not meet each of the requirements, the Hearing Panel Chair shall notify the parties present that the hearing will not proceed. The Hearing Panel Chair will notify the student in writing of the rejection of the Request for a Grievance Hearing, together with the specific reasons for the rejection, and provide the procedures for appeal to the Superintendent/President. This notice will be provided within two (2) days of the date the decision is made by the Grievance Hearing Panel.
5. Any appeal relating to a Grievance Hearing Panel's decision that the Statement of Grievance does not present a grievance as defined in these procedures, shall be made in writing to the Superintendent/President within five (5) days of that decision. The Superintendent/President shall review the Statement of Grievance and Request for Grievance Hearing in accordance with the requirements for a grievance provided in these procedures, but shall not consider any other matters. The Superintendent/President's decision whether or not to grant a grievance hearing shall be final and not subject to further appeal.

G. Request for Hearing Panel (Other than Academic Grade Grievance)

1. At the beginning of the academic year, the Superintendent/President, the presidents of the Academic Senate, Management Senate, Classified Senate, and Associated Student Body Government (ASBG) shall each establish a list of at least five (5) persons who will serve on Disciplinary Appeal Hearing Panels (AP 5520) and/or Student Grievance Hearing Panels (AP 5530), (other than an Academic Grade Grievances). Those who accept appointment to serve on hearing panels, agree to be available when a hearing panel is convened. Members will serve a term of two years.
2. Hearing Panels for a Grievance (other than an Academic Grade grievance) shall be composed of one (1) Superintendent/President appointee, one (1) administrator, one (1) faculty member, one (1) classified staff member, and one (1) student. The Hearing Officer shall compose (5) five-member Hearing Panels from the names on these lists described above and shall designate who shall act as chair of the panel.
3. When a student's grievance is related to an Academic grade dispute the Hearing Panel will be formed per Section J. of this procedure.
 - a. No administrator, faculty, classified member or student shall serve on any hearing panel who has any personal involvement in the matter to be decided, who is a necessary witness, or who could not otherwise act in a neutral manner. Any party to the grievance may challenge for cause any member of the Grievance Hearing Panel prior to the beginning of the hearing by addressing a written challenge to the Hearing

- Officer, who shall determine whether cause for disqualification has been shown.
- b. If the Hearing Officer finds that sufficient grounds for removal of a member of the panel have been presented, the panel member shall be removed and a new member designated.
- c. The Hearing Officer shall coordinate scheduling of hearings; and shall assist all parties and the Hearing Panel to facilitate a fair and efficient resolution of the grievance. The Hearing Officer will not participate in the hearing, but will be available for questions and clarification of process.
- d. The District Hearing Officer shall remain neutral.
4. Hearing Panel Training: Members appointed to serve on Disciplinary Appeal or Student Grievance Hearing Panels shall be regularly trained on responsibilities; including the requirements of Board Policy and Administrative Procedures in the area of student discipline, student grievances, effective hearing protocol, roles and responsibilities of panel members and the chair, and other issues bearing upon the integrity and effectiveness of these Hearing Panels.

H. Grievance Hearing Procedure (Other than Academic Grade Disputes)

- The Hearing Panel Chair shall maintain an orderly meeting and permit no person to be subjected to abusive treatment. In this regard, the Hearing Panel Chair may eject or exclude any person who refuses to be orderly. The decision of the Hearing Panel Chair shall be final on all matters relating to the conduct of the hearing unless there is a vote of a majority of the other members of the panel to the contrary.
1. The members of the Hearing Panel shall be provided with a copy of the Statement of Grievance and Request for Grievance Hearing Form, all evidence, statements, reports, and any written response provided by the respondent before the hearing begins.
 2. Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.
 3. Formal rules of evidence shall not apply. Any relevant evidence may be admitted if it is the sort of evidence upon which reasonable persons are accustomed to rely in the conduct of serious affairs regardless of the existence of any common law or statutory rule which might otherwise exclude such evidence.
 4. Unless the Hearing Panel determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant shall make the first presentation followed by the respondent(s). The grievant may present rebuttal evidence after the respondent(s)' evidence. The burden shall be on the grievant to prove by a preponderance of the

evidence that the facts alleged are true and that a grievance has been established as specified above.

5. Each party to the grievance may represent him or herself, and may be represented by a person of his or her choice. The Hearing Panel may also request legal assistance through the Superintendent/President's office. Any legal advisor provided to the Hearing Panel may sit with the panel in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.
6. Grievance Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request shall be made no less than five (5) days prior to the date of the hearing. The Grievance Hearing Panel may approve or deny such a request.
7. Non-party witnesses shall not be present at the hearing when not testifying unless all parties and the Grievance Hearing Panel agree to the contrary.
8. The District shall record the hearing either by audio or stenographic recording. This shall be the only official recording made of the hearing. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by audio recording, the Hearing Panel Chair shall, at the beginning of the hearing, ask each person present to identify themselves by name and, thereafter, ask witnesses to identify themselves by name. The audio recording shall remain in the custody of the District at all times, unless released to a professional transcribing or copying service. The student may request a copy of the recording. If the District causes the recording to be transcribed, the District shall provide a copy of the transcription to the student after receipt of the completed transcription by the District. However, the District is under no obligation to cause the recording to be transcribed.
9. All testimony shall be taken under oath. The oath shall be administered by the Hearing Panel Chair or court reporter. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify, as determined by the Hearing Panel Chair. A witness who refuses to be audio recorded shall not be considered to be unavailable. In other words, mere refusal by a witness to be recorded is not an acceptable excuse for submitting written testimony.
10. Within ten (10) days following the close of the hearing, the Hearing Panel Chair shall prepare and send to the Superintendent/President a written recommendation by the Panel. The recommendation shall include specific factual findings regarding the grievance and include specific conclusions regarding whether a grievance has been established as defined above, and shall include a specific recommendation regarding the relief to be afforded the grievant, if any. The recommendation shall be based only on the record of the hearing and not on matters outside of that record. The record

consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

I. Superintendent/President's Decision (Other than Academic Grade Disputes)

1. Within ten (10) days following receipt of the Grievance Hearing Panel's recommendation(s), the Superintendent/President shall send to all parties his or her written decision, together with the Hearing Panel's recommendations. The Superintendent/President may accept or reject the recommendation(s) of the Hearing Panel. The factual findings of the Hearing Panel shall be accorded great weight. If the Superintendent/President does not accept the recommendation(s) of the Hearing Panel, the Superintendent/President shall review the record of the hearing and prepare a new written decision which contains specific factual findings and conclusions. The Superintendent/President's decision shall be final.

J. Academic Grade Dispute Grievance - Informal Resolution.

1. A student shall first challenge a grade by completing a Petition for Change to Academic Record (AP 4231) and provide documentation to support the request. The petition will be sent to the professor for review and input. Once the professor responds, the student will be notified via student email by the Director of Admissions, Records and Registration. Only one Petition for Change to Academic Record (grade change petition) is allowed per course (AP 4231, EC 76224, Title 5 Section 55025) and must be submitted within one year from the end of the term in which the grade was received. (Refer to AP 4231, EC 76224, Title 5 Section 55025 for further details.)
2. A student who believes a final course grade was assigned due to mistake, fraud, bad faith, or incompetence, EC 76224(a), must meet first with the faculty member to resolve his or her concern.
 - a. If meeting with the professor does not resolve the issue, the student may obtain a Grievance Mediation Form (Form 5535) from the Division Dean of the course of study. The student will return the completed Grievance Mediation Form to the applicable Division Dean with a specific statement of the alleged wrong-doing, the name of the faculty member, name of the course, and the nature of relief sought by the grievant. The burden shall be upon the grievant to prove by a preponderance of the evidence that the facts alleged are true and that a grievance has been established.
 - b. The Division Dean may schedule a meeting of all parties concerned, if appropriate. The Division Dean shall make a recommendation to the parties within ten (10) instructional days.

K. Academic Grade Dispute Grievance - Formal Resolution

1. If either party is dissatisfied with the recommendation of the Division Dean, he or she may appeal the matter to the Assistant Superintendent/Vice President of Instruction, or designee, within ten (10) days of the Division Dean's recommendation by submitting a Request for Grievance Hearing Form (Form 5540, available on the District's Student Services Webpage). The burden shall be upon the grievant to prove by a preponderance of the evidence that the facts alleged are true and that a grievance has been established.
2. Upon receiving the student's request for a formal Grade Dispute Grievance Hearing, the Assistant Superintendent/Vice President of Instruction or designee will review the request to determine whether the Request for a Grievance Hearing presents sufficient grounds for a hearing. Grade grievances are only allowed to the extent permitted by Education Code Section 76224(a) which provides, When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the professor of the course and the determination of the student's grade by the professor, in the absence of mistake, fraud, bad faith, or incompetency, shall be final.
 - a. Mistake may include, but is not limited to, unintentional errors or omissions made by a professor in calculating a student's grade, and/or clerical errors.
 - b. Fraud An intentional perversion of the truth for the purpose of inducing another to part with something valuable or to surrender a legal right.
 - c. Bad Faith Synonymous with fraud, neglect, or refusal to fulfill some duty or contractual obligation, not prompted by an honest mistake as to one's rights or duties.
 - d. Incompetence Lack of ability, legal qualification, or fitness to discharge a required duty.
3. If the Assistant Superintendent/Vice President of Instruction or designee determines that the grounds for a Grade Dispute Grievance have not been satisfied, the Assistant Superintendent/Vice President of Instruction or designee will notify the student in writing within then (10) days of the determination that the grievance has been rejected, and state the specific reason(s) for the rejection.
4. If it is determined that there are sufficient grounds, the Assistant Superintendent/Vice President of Instruction or designee shall notify the student in writing and convene a Hearing Panel within fifteen (15) days of the determination, in accordance with the following:
 - a. California Teachers' Association (CTA) contract language states in Article XVI- Evaluation of Faculty, 16.1.3 Definitions, 16.1.1., Authorized evaluators include Division Deans, Directors, Immediate Supervisors, Deans, Assistant Superintendent/Vice President of Student Services, Assistant Superintendent/Vice President of Instruction, and outside evaluators.
 - b. Therefore, only the administrative positions listed above shall have authority to evaluate whether or not a faculty member made a mistake, committed fraud, bad faith, or was incompetent in assigning a grade. Thus, the Hearing Panel for Academic Grade Dispute Grievance hearings shall be composed of the Assistant Superintendent/Vice President of Instruction, the Assistant Superintendent/Vice President of Student Services, an Instructional Dean and the Division Dean/immediate supervisor of the faculty member.
5. Within five (5) days following the close of the hearing, the Assistant Superintendent/Vice President of Instruction or designee shall prepare and send a written recommendation of the Panel to the Superintendent/President. The recommendation shall include specific factual findings regarding the grade dispute, and include specific conclusions regarding whether a grade dispute has been established, and include a specific recommendation regarding the relief to be afforded the grievant, if any. The recommendation shall be based only on the record of the hearing and not on matters outside of that record. The record consists of the original grade dispute consisting of the Grievance Mediation Form, the Request for Grievance Hearing Form, any written response, and the oral and written evidence produced at the hearing.
6. The Superintendent/President shall review the recommendation of the panel. The Superintendent/President shall make a written decision within ten (10) instructional days and notify the parties involved.
7. The Superintendent/President's decision shall be final.

(AP 5530 5/14/14)

Transcripts

Official transcripts of courses taken at San Joaquin Delta College are prepared by the Office of Admissions and Records and issued according to the following regulations:

- Each transcript request must be submitted via the College web site, or in writing by the student to the Admissions and Records Office.
- Pursuant to CA Education Code Section 76223, "that no charge shall be made for furnishing up to two transcripts of students' records..." Therefore, students are entitled to receive two free transcripts only if requested by mail or in person. Important Note: "two free transcripts" does not apply to orders requested through the Online process.
- After the first two complimentary copies, copies are available for a fee payable in advance.
- Each transcript will include the student's entire record of courses completed at Delta College.

- Official transcripts or records earned at other institutions which have been presented for admission or evaluation become part of the student's permanent record and are not issued or copied for distribution.
- To expedite the forwarding of transcripts, all financial obligations to the College and administrative holds must be cleared.
- Due to the large number of transcripts requested at the end of each term, a minimum of two weeks should be allowed for requests to be filled during those periods. Transcripts verifying degrees may take longer.

(AP 5030 11/12/15)

Transcripts from Other Schools

All records submitted become the property of Delta College and cannot be duplicated or returned to the applicant. A student who presents an official transcript of previous college or university work in courses parallel to those of Delta College may receive credit towards the A.A./A.S. degree from San Joaquin Delta College. The previous college or university must be a U.S. regionally-accredited institution and listed in the Accredited Institutions of Higher Education.

Unit Limitations

Regular Semester

Students who have been unconditionally admitted may register for not more than twenty-one (21) units prior to the beginning of each semester. Students may enroll for an additional six (6) units after the semester has begun for a total unit limitation of twenty-seven (27) units per semester.

Inter-Session

Students who have been unconditionally admitted may be allowed to register for not more than twelve (12) units prior to the beginning of summer session. Students may add an additional three (3) units after the summer session has begun for a total unit limitation of fifteen (15) units per intersession.

Students who have been conditionally admitted will be allowed to register for the number of units prescribed on the basis of their conditional admission to the College by the Assistant Superintendent/Vice President of Student Services or designee. Students enrolled under Conditional Admission will not be permitted to add additional units without the written authorization of the Assistant Superintendent/Vice President of Student Services or designee. (AP 5075 4/10/12, 4/27/17)

***See AP 5075 for new unit limitations and requirements, effective with the publication of the 2018-19 College Catalog**

Other Limitations:

International Student Program - not less than 12 units per semester. (Policy 5500 7/18/95)

Varsity Athletes - not less than 12 units per semester

Student Financial Aid - At least 12 units per semester are required to assure eligibility for all aid programs

(AP 5130, 6/11/15)

Withdrawal from Class

A. Withdrawal from Full-Term Census Course:

1. Students who withdraw from one or more courses through the last day before the census day or date will have no entries made on their transcripts for the courses enrolled in at the time of withdrawal.
2. Students who withdraw from one or more courses on or after the census day or date through the last day of the eighth week of instruction or 50 % of the term, whichever occurs earlier, of the fall/spring semesters or 50% of the term for Interessions, will have "W's" entered on their transcripts for those courses in which they were enrolled at the time of withdrawal from the College.
3. Students who remain enrolled in withdraw from one or more courses after the last day of the eighth week of instruction or 50% of the term, whichever occurs earlier of the fall/spring semester or the last day of the 50%fourth week for 50% of Interession, will have a grading symbol other than a "W" as prescribed in Administrative Procedure 4230, i.e., A, A-, B+, B, B-,C+, C, D, F, FW, CR, NC, P, NP, IP, RD, or I, entered on their transcripts. for those courses in which they were enrolled at the time of the withdrawal.
4. Notwithstanding the above, students who are members of an active or reserve United States military service and who receive orders compelling withdrawal from courses at any time on or after the census day or date shall have the notation "MW" entered on their transcripts in accord with the provisions of Administrative Procedure 4230.

B. Withdrawal from Courses not Cotermious with the Term and Actual Hours of Attendance Courses:

1. Students who withdraw from one or more courses on or before the last day before the census day or date of the course will have no entries made on their transcripts for the courses enrolled in at the time of withdrawal.
2. Students who withdraw from one or more courses in the period between census day or date and 50% of the course will have a "W" entered on their transcripts for the courses in which they were enrolled at the time of withdrawal from the College.

3. The academic record of a student who remains enrolled in a course beyond the time allowed by district policy. Students who withdraw from one or more courses during the final 50% of the course will have a grading symbol other than a "W" as prescribed in Administrative Procedure 4230, i.e., A, A-, B+, B, B-, C+, C, D, F, FW, CR, NC, P, NP, IP, RD, or I entered on their transcripts for those courses in which they were enrolled at the time of withdrawal.

4. Notwithstanding the above, students who are members of an active or reserve United States military service and who receive orders compelling withdrawal from courses after the census day or date of the first 20 percent of the course shall have the notation "MW" entered on their transcript in accord with the provisions of Administrative Procedure 4230.

C. Withdrawal from College or from a Course:

1. Student Initiated

Students should drop courses using the Internet via the online registration system.

Withdrawing from the College or from a course is the responsibility of the student. When a student withdraws from the College or withdraws from a course, the drop will be reflected on the electronic class list provided through the District's electronic data system.

2. Instructor Initiated

Mandatory:

A student who violates the District's attendance policy within the first census period will be dropped by the instructor.

Discretionary:

A student who violates the District's attendance policy after the first census date may be dropped by the instructor prior to the last date for withdrawal specified above. Faculty members are strongly encouraged to notify a student before dropping the student from class by utilizing the Academic Alert Roster System to notify a student concerning an impending drop. (AP 5075, 12/13/12)

Withdrawal from Class - Short term, Irregularly Scheduled Classes, and Actual Hours of Attendance Classes

Students who withdraw from one or more courses on or before the last business day before the census day or date of the course will have no entries made on their transcripts for the courses enrolled in at the time of withdrawal.

Students who withdraw from one or more courses in the period between census day or date and 50% of the course will have a "W" entered on their transcripts for the courses in which they were enrolled at the time of withdrawal from the College.

Students who remain enrolled in one or more courses after the last day of the eighth week of instruction or 50% of the term, whichever occurs earlier of the fall/spring semester or 50% of Intersession, will have a grading symbol other than a "W" as prescribed in Administrative Procedure 4230, i.e., A, A-, B+, B, B-, C+, C, D, F, FW, CR, NC, P, NP, IP, RD, or I, entered on their transcripts.

Notwithstanding the above, students who are members of an active or reserve United States military service and who receive orders compelling withdrawal from courses at any time on or after the census day or date shall have the notation "MW" entered on their transcripts in accord with the provisions of Administrative Procedure 4230. (AP 5075, 12/13/12, 4/27/17)

Withdrawal Procedures

It is the student's responsibility to manage their enrollment. This includes dropping classes for which the student has registered but no longer wishes to attend and classes the student is no longer attending. Classes must be dropped by the published drop dates by using the online registration system.

Withholding of Student Records

The Vice President of Student Services may withhold grades, transcripts, diplomas, certificates, and registration privileges from any student or former student who fails to pay a proper financial objection to the District. The student shall be given written notification and the opportunity to explain if the financial obligation is in error.

The definition of proper financial obligation shall include, but is not limited to: student fees; obligations incurred through the use of facilities; equipment or materials; library fines; unreturned library books; materials remaining improperly in the possession of the student; and/or any other unpaid obligation a student or former student owes to the District. A proper financial obligation does not include any unpaid obligation to a student organization. Procedures for Notification Process

The Vice President of Student Services or designee shall notify the student or former student that records are being withheld and the reason therefore, including a statement of the amounts owed the College.

Release of Records

Records will be provided:

- A. During a period when facts are in dispute.
- B. When it is demonstrated to the Vice President of Student Services that reasonable progress is being made to pay the amount owed or that there exists a reasonable justification for delay in repayment.
- C. Upon payment of amounts owed.

Appeal Procedure

A student whose records have been withheld may appeal the action through the Student Grievance (AP 5035 6/18/02)

DEGREE AND PROGRAM REQUIREMENTS

Associate Degree Programs

Agriculture, Science, and Mathematics Division

- Agriculture Business, Associate in Science
- Agriculture Business, Associate in Science for Transfer
- Computer Information Systems, Associate in Science
- Computer Science, Associate in Science
- Computer Science, Associate in Science for Transfer
- Geology, Associate in Science for Transfer
- Horticulture, Associate in Science
- Interdisciplinary Studies - Mathematics and Science Option, Associate in Science
- Mathematics, Associate in Science
- Mathematics, Associate in Science for Transfer
- Physics, Associate in Science for Transfer

Applied Science, Business, and Technology Division

- Accounting, Associate in Science
- Architectural Drafting, Associate in Science
- Automation Technology - Mechatronics, Associate in Science
- Automotive Technology, Associate in Science
- Business, Associate in Science
- Business Administration, Associate in Science for Transfer
- Caterpillar Dealer Service Technician Apprenticeship, Associate in Science
- Computer Network Security Technician, Associate in Science
- Computer Network Technician, Associate in Science
- Diesel Equipment Technician, Associate in Science
- Electrical Technology, Associate in Science
- Electron Microscopy - Biological, Associate in Science
- Electron Microscopy - Materials, Associate in Science
- *Engineering - Civil, Associate in Science
- *Engineering - Computer, Associate in Science
- *Engineering - Electrical, Associate in Science
- Engineering - Mechanical, Aeronautical, and Manufacturing, Associate in Science
- Engineering Computer-Aided Drafting, Associate in Science
- Engineering Technology, Associate in Science
- Fluid Power and Automation Technology, Associate in Science
- Heating and Air Conditioning - Refrigeration, Associate in Science
- Heavy Equipment Technician, Associate in Science
- Interdisciplinary Studies - Business Option, Associate in Arts
- Logistics and Transportation, Associate in Science
- Machining Technology, Associate in Science
- Office Management, Associate in Science
- Real Estate, Associate in Science

- Retail Management and Merchandising, Associate in Science

Arts and Communication Division

- Apparel Design, Associate in Arts
- Art, Associate in Arts
- Art History, Associate in Arts for Transfer
- Baking and Pastry, Associate in Science
- Communication Studies, Associate in Arts
- Communication Studies, Associate in Arts for Transfer
- Culinary Arts, Associate in Arts
- Culinary Arts - Advanced, Associate in Science
- Dance, Associate in Arts
- Fashion Merchandising, Associate in Science
- Graphic Arts, Associate in Arts
- Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts
- Interior Design, Associate in Arts
- Journalism, Associate in Arts for Transfer
- *Multimedia, Associate in Arts
- Music, Associate in Arts
- Music, Associate in Arts for Transfer
- Photography, Associate in Arts
- Radio/Television, Associate in Arts
- Studio Art, Associate in Arts for Transfer
- Theatre Arts - Acting, Associate in Arts
- Theatre Arts - Technical Theatre, Associate in Arts
- Theatre Arts, Associate in Arts for Transfer

Health Sciences Division

- Family and Consumer Sciences, Associate in Science
- Health Science, Associate in Science
- Nursing, Associate in Science
- Psychiatric Technology, Associate in Science
- Speech Language Pathology Assistant, Associate in Science

Humanities, Social Science, Education, Kinesiology, and Athletics Division

- Administration of Justice, Associate in Science for Transfer
- Anthropology, Associate in Arts for Transfer
- Correctional Science, Associate in Science
- Early Childhood Education, Associate in Arts
- Early Childhood Education, Associate in Science for Transfer
- Elementary Teacher Education, Associate in Arts for Transfer
- History, Associate in Arts
- History, Associate in Arts for Transfer
- Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts
- Kinesiology, Associate in Arts for Transfer
- Law Enforcement, Associate in Science
- Physical Education, Associate in Science
- Police Science, Associate in Science
- Political Science, Associate in Arts for Transfer

- Psychology, Associate in Arts
- Psychology, Associate in Arts for Transfer

Languages, Library, and Learning Resources Division

- Chinese Language, Associate in Arts
- English, Associate in Arts
- English, Associate in Arts for Transfer
- French Language, Associate in Arts
- German Language, Associate in Arts
- Interdisciplinary Studies: Arts, Humanities, and Social Sciences Option, Associate in Arts
- Italian Language, Associate in Arts
- Japanese Language, Associate in Arts
- Spanish Language, Associate in Arts
- Spanish, Associate in Arts for Transfer

* - Pending Approval

Certificate Programs

General Education

- California State University General Education Pattern
- Intersegmental General Education Transfer Curriculum - CSU Version
- Intersegmental General Education Transfer Curriculum - UC Version

Agriculture, Science, and Mathematics Division

- Agriculture Business
- Agriculture Business - Animal Science
- Agriculture Business - Plant Science
- Computer Networking - Competence
- Computer Networking - Essentials
- Computer Networking Software
- Computer Operations
- Computer Programming
- Computer Programming - Competence
- Computer Programming - Essentials
- Computer Science
- Computer Support
- Computer Support Technician
- Computer Web Developer
- Computer Web Developer Technician
- Horticulture - Landscape Basics
- Horticulture - Landscape Management
- Horticulture - Nursery Management
- Horticulture - Turf Grass

Applied Science, Business, and Technology Division

- Accounting
- Administrative Assistant
- Agriculture Mechanics
- Architectural Drafting
- Automation Technician - Mechatronics
- Automotive Body Basic Repair and Restoration
- Automotive Body Intermediate Repair and Restoration
- Automotive Body Advanced Repair and Restoration
- Automotive Dealer Technician
- Automotive Electric Technology
- Automotive Lubrication Technician

- Automotive Master Technician
- Automotive Mechanics Technology
- Basic Business
- Bookkeeping
- Computer Network Security Technician
- Computer Networking Technician
- Computer Numerical Control Operator/Programmer
- Diesel Automotive Equipment Technician
- Diesel Equipment Technician
- Electrical Technology
- Electrical Technology - Apprenticeship
- Electrical Technology - General Electrician Trainee
- Electron Microscopy - Biological
- Electron Microscopy - Crystalline Material
- Electronics Technology
- Engineering Fundamentals
- Engineering - Computer-Aided Drafter
- Engineering Technology
- *Entrepreneurship
- Fluid Power and Automation Technology
- General Office
- Heating and Air Conditioning
- Heavy Equipment Mechanic
- Heavy Equipment Technician
- Industrial Technology
- Industrial Technology - Electrical Apprenticeship
- Industrial Technology - Maintenance Apprenticeship
- Industrial Technology - Mechanical Apprenticeship
- Industrial Technology - Operations Apprenticeship
- International Business
- Logistics and Transportation Supervisor
- Machinist: Entry-Level
- Medical Office Assistant
- Merchandising
- Municipal Clerk
- Office Assistant
- Office Management
- Real Estate
- Refrigeration
- Retail Management
- *Small Business
- Solar Photovoltaic Installation Technician
- Supervision and Management
- Tax Preparation
- Traffic Shipping and Receiving Technician
- Welding Technology

Arts and Communication Division

- *Apparel Industry Sewing
- Baking and Pastry
- Culinary Arts
- Fashion Design
- Fashion Merchandising
- Graphic Arts
- Interior Design
- Media Studies - Radio
- Media Studies - Television
- Multimedia
- *Photography
- Stagecraft

Health Sciences Division

- Psychiatric Technician
- Radiological Technician

Humanities, Social Science, Education, Kinesiology, and Athletics Division

- Basic Peace Officer Academy
- Correctional Science
- Early Childhood Education Associate Teacher
- Early Childhood Education Master Teacher
- Early Childhood Education Site Supervisor
- Early Childhood Education Teacher
- Fitness Specialist
- Law Enforcement
- Mental Health Specialist
- Substance Abuse Counselor

Languages, Library, and Learning Resources Division

- American Sign Language

* - Pending Approval

Defining Educational Goals

The educational goal is defined as the student's purpose for attending San Joaquin Delta College and includes the major field of academic specialization such as Business, Biological Sciences, Art, or Engineering. A major includes an organized set of required courses that prepares students for further study or employment.

Student Options**1. Transfer**

At San Joaquin Delta College, students may complete the first two years of course work required for a Bachelor's Degree and transfer as a junior to a baccalaureate-granting institution. Students may transfer with or without an Associate's Degree, but earning the Associate in Arts for Transfer or the Associate in Science for Transfer degree will facilitate transfer to California State University campuses.

2. Associate in Arts (A.A.) or Associate in Science (A.S.) Degree

An Associate's Degree is the first college degree a student may earn. It signifies the completion of at least 60 semester units of college-level work in a major or area of emphasis and includes completion of general education (G.E.) courses. Some students require developmental course work to prepare for college-level study and, thus, may be required to complete more than 60 units to earn the Associate's Degree.

How long will it take to complete a certificate or degree?

The time it takes to complete a certificate or degree is dependent on how many units are taken each semester. Refer to the chart below to determine how the average number of courses completed per semester will affect the time it will take to complete a certificate or degree.

If you take...	Certificate	Associate's Degree	Bachelor's Degree
One Class per Semester (3 units)	5 years	7-10 years	13-20 years

3. Certificate of Achievement

A Certificate of Achievement is a short-term program, usually two to four semesters for a full-time student. Certificate programs focus on preparing students for a specific goal or area of employment.

4. Other Educational Goals

If a student does not plan to complete a Certificate or Associate's degree, or transfer to a four-year college or university, courses are offered for personal development. In this case, the educational goal may be to:

- Learn new job skills
- Improve basic skills (i.e., English, mathematics)
- Pursue a personal interest
- Update current job skills
- Explore career interests

Counselors are available to assist students in defining their educational goals.

Planning Your Schedule**The unit: a working definition**

The number of course units is generally the number of lecture hours per week a class meets. Classes that include a laboratory component meet additional hours. Students should expect a minimum of two hours of outside study per week for each enrolled unit. The student's ability to successfully complete college course work must be carefully considered to include time for class, study, employment, and other personal responsibilities.

How many units should you take?

Delta College's suggested guidelines:

If you work:	Take no more than:
40 hours per week	6 units
30 hours per week	9 units
20 hours per week	12 units
5 to 15 hours per week	14 - 16 units
"Full-time" Student Status	12 or more units

Two Classes Per Semester (6 Units)
 Three Classes Per Semester (9 Units)
 Four Classes Per Semester (12 units)
 Five Classes Per Semester (15 units)

2-3 years
 1.5-3 years
 1-2 years
 1 year

5 years
 3 years
 2.5 years
 2 years

10 years
 6-7 years
 5 years
 4 years

These times may be shortened by enrolling in summer session courses.

Degree Requirements

Reading, English, ESL, and Math Assessment Levels and Course Sequencing

Students are strongly encouraged to enroll in the appropriate English and mathematics class as soon as possible. Students who believe their initial assessment levels are incorrect may request to retake the assessment examination or apply for review through the Matriculation Appeal Process. Appointments for retake examinations may be arranged through the Academic Assessment Center website. Appeals may be submitted through the Office of Admissions and Records.

Reading Course Sequence (fulfills the Reading requirement)

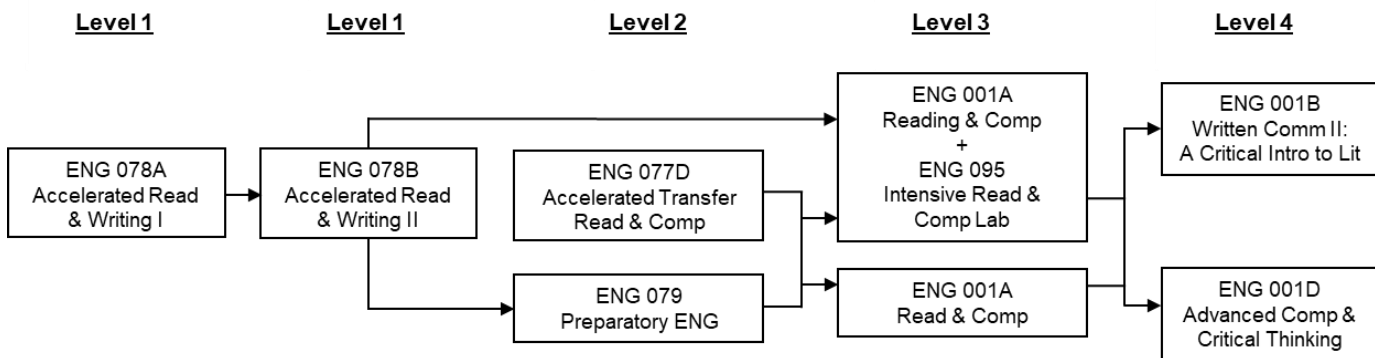
Students who place at Level I in reading and wish to enroll in a course with a co/prerequisite of reading must enroll in Reading 99A/B/C/D, English 78A, and/or English 78B, based on their reading assessment score. Students who score Level I in reading and wish to enroll in a course with a prerequisite of reading Level II must reach Level II by successfully completing English 78B with a grade of C or better, before they will be allowed to enroll.

Level I Reading 99A/B/C/ or D, and
 English 78A, and/or
 English 78B

English Composition Course Sequence

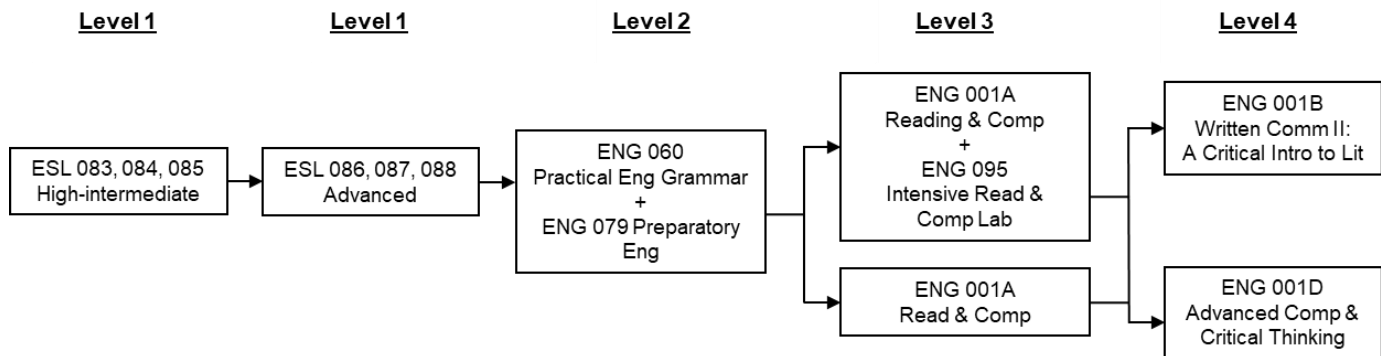
Level I courses are two or more levels below College-level English and may not be used to meet Associate Degree requirements. Level II courses are one level below College-level English and Associate Degree applicable. Level III and Level IV courses are College-level, Associate Degree applicable, and transferrable.

English Composition Course Sequence



English as a Second Language (ESL) Course Sequence (fulfills the Reading requirement)

ESL students who do not have a U.S. high school diploma and foreign students will be placed based upon an ESL assessment. ESL students who do have a U.S. high school diploma may either use the ESL assessment or the reading section of the assessment/placement assessment and the reading requirements.



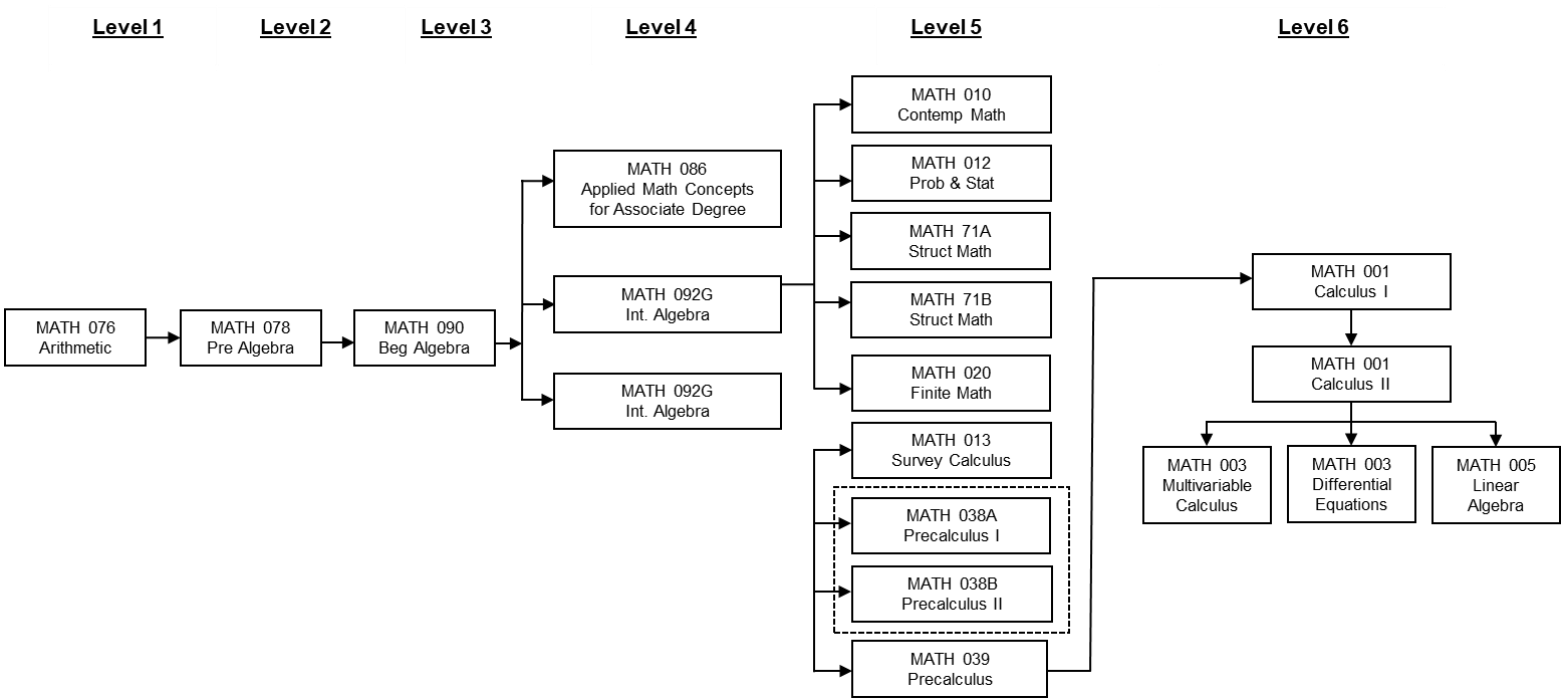
Math Skills Requisite Levels

MATH ASSESSMENT LEVEL PLACEMENT

MATH LEVEL	COURSE	
1	MATH 076	Review of Arithmetic
2	MATH 078	Pre Algebra
3	MATH 090	Beginning Algebra
4	MATH 092G/92S	Intermediate Algebra
	MATH 86	Applied Math Concepts
5	Any math course that lists MATH 092G or MATH 92S as a prerequisite	
6	MATH 001	Calculus I
6	Any math course that lists MATH 038A, MATH 038B, or MATH 039 as a prerequisite	

Students are encouraged to consult with a Professor of Mathematics or Counselor regarding placement in mathematics classes.

Math Course Sequence



Associate in Arts and Associate in Science Degree Requirements

1. Unit Requirement

Completion of not fewer than sixty (60) associate degree applicable semester units of course work with a cumulative grade point average of 2.0 or higher.

2. General Education

Students must complete one of the following General Education patterns:

- San Joaquin Delta College Associate Degree General Education pattern with a minimum of twenty-four (24) semester units.
OR
- California State University General Education pattern.
OR
- Intersegmental General Education Transfer Curriculum (CSU Version) General Education pattern.

3. An Approved Major, or Area of Emphasis

- Completion of the requirements of an approved Major which will require an approved program of study with a minimum of 18 units of course work as specified in the College Catalog.
OR
- Completion of the requirements of an approved Area of Emphasis which will require an approved program of study with a minimum of 18 units of course work as specified in the College Catalog,

4. Competency Requirement

A minimum competency must be demonstrated by a grade of "C" or better in courses offered in satisfaction of Written Communication, Oral Communication, and Quantitative Reasoning (Area I. Language and Rationality).

5. Residence Requirement

Of the minimum sixty (60) semester units required, the student must complete:

- The last twelve (12) semester units and attend during the semester of qualification for graduation at San Joaquin Delta College.
OR
- A total of at least twelve (12) units at San Joaquin Delta College.
Units earned through Credit by Examination do not apply to the residency requirement.

Students planning to transfer should see a counselor to choose the appropriate courses to complete the entire CSU or IGETC General Education pattern.

Associate Degree for Transfer to California State University (AA-T/AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Note: Course substitution for associate degrees for transfer is limited to students transferring from another accredited institution that has an aligned degree in the same discipline (AP 4042, 2/14/12). Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated "high-unit" major). This degree may not be the best option for students intending to transfer to a particular CSU campus or university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

The table below lists the Associate Degrees for Transfer to CSU offered at Delta College and the Academic Divisions in which you will find them:

Degree	Division
Administration of Justice	Humanities, Social Science, Education, Kinesiology and Athletics
Agriculture Business	Agriculture, Science and Mathematics
Anthropology	Humanities, Social Science, Education, Kinesiology and Athletics
Art History	Arts and Communication
Business Administration	Applied Science, Business and Technology
Communication Studies	Arts and Communication
Computer Science	Agriculture, Science and Mathematics
Early Childhood Education	Humanities, Social Science, Education, Kinesiology and Athletics
Elementary Teacher Education	Humanities, Social Science, Education, Kinesiology and Athletics
English	Languages, Library and Learning Resources
Geology	Agriculture, Science and Mathematics
History	Humanities, Social Science, Education, Kinesiology and Athletics
Journalism	Arts and Communication
Kinesiology	Humanities, Social Science, Education, Kinesiology and Athletics
Mathematics	Agriculture, Science and Mathematics
Music	Arts and Communication
Physics	Agriculture, Science and Mathematics
Political Science	Humanities, Social Science, Education, Kinesiology and Athletics
Psychology	Humanities, Social Science, Education, Kinesiology and Athletics
Spanish	Languages, Library and Learning Resources
Studio Arts	Arts and Communication
Theatre Arts	Arts and Communication

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an AA-T or AS-T major as defined in the Delta College Catalog. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (Title 5 § 55063).
4. Completion of the California State University General Education Requirements Certificate of Achievement (CSU GE); OR the Intersegmental General Education Transfer Curriculum-CSU Version Certificate of Achievement (IGETC-CSU).

Philosophy and Criteria for Associate Degree and General Education

General education is an integrated curriculum designed to prepare the student for better self-understanding and for the responsibilities of living in a global society. Essential elements of general education include critical thinking, effective communication, and knowledge of the multiple dimensions of the modern world. General education provides a core of knowledge which enables the student to:

- A. develop new insights about the complex forces in the modern world.
- B. develop the ability to think and communicate clearly and effectively through the use of oral, written, and mathematical skills, and to apply critical thinking and the modes of inquiry of major disciplines.
- C. become aware of other cultures and times.
- D. achieve a deeper understanding about ethical choices individuals face in contemporary society.
- E. develop the capacity for self-understanding.
- F. examine the values inherent in proposed solutions to major social problems.

(BP 4025, 4/20/10)

Criteria for determining General Education courses

- A. Courses appropriate for general education will include the following criteria:
 1. Course Integrity and Breadth - The course exposes the student to a wide spectrum of principles, theories, beliefs, and knowledge within individual academic disciplines and is not primarily a part of a sequence of courses.
 2. Critical Thinking - The course requires the student to critically analyze principles, theories, beliefs, and knowledge included in the course.
- B. In addition, courses will also include at least four of the following criteria:
 1. Individual Perspectives - The course uses the methods of each discipline to develop the student's ability to examine, evaluate, and express individual perspectives.
 2. Integration of Knowledge - The course aims at integrating the major concepts of the course with knowledge from other general education areas.
 3. Culture and Heritage - The course examines culture and heritage and their role in understanding and shaping society.
 4. Application of Knowledge - The course prepares the student to apply the principles and content of a particular discipline to understand, analyze, and evaluate information to solve problems.
 5. Communication of Knowledge - The course prepares the student to communicate information in a variety of ways.
 6. Discipline Exploration - The course provides a foundation of knowledge and technique from which the student can continue learning in the general discipline area.

Criteria for judging courses as appropriate for the required general education areas include:

- A. Language and Rationality
 1. Courses fulfilling the English composition requirement shall be designed to include both expository and argumentative writing. Courses offered in fulfillment of this requirement shall be at the level typically known as Freshman Composition.
 2. Courses fulfilling the mathematics requirement shall be at the level typically known as Intermediate Algebra, (either intermediate algebra or another mathematics course at the same level, with the same rigor and with Intermediate Algebra as a prerequisite). This requirement may also be met by a mathematics course taught in or on behalf of other departments and which, as determined by the local governing board, require entrance skills at a level equivalent to those necessary for Intermediate Algebra. Mathematics courses with a prerequisite of Intermediate Algebra may also be used to satisfy this requirement.
 3. Courses fulfilling the oral communication requirement will develop knowledge and understanding of the form, content, context and effectiveness of communication. Students will develop proficiency in oral communication, examining communication from the rhetorical perspective and practicing reasoning and advocacy, organization and accuracy. Coursework must include active participation and practice in oral communication in the physical presence of faculty and other listeners.
- B. Natural Sciences
 1. Courses in the natural sciences are those which examine the physical universe, its life forms, and its natural phenomena. This category would include introductory or integrative courses in astronomy, biology, chemistry, general physical science, geology, meteorology, oceanography, physical geography, physical anthropology, physics and other scientific disciplines.
 2. To satisfy the General Education Requirement in natural sciences, a course shall be designed to help the student develop an appreciation and understanding of the scientific method, and encourage an understanding of the relationships between science and other human activities.

C. Humanities

1. Courses in the humanities are those which study the cultural activities and artistic expressions of human beings. Such courses could include introductory or integrative courses in the arts, foreign languages, literature, philosophy, and religion.
2. To satisfy the general education requirement in the humanities, a course shall be designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural creation and help the student develop aesthetic understanding and ability to make value judgments.

D. American Institutions

1. Courses fulfilling the American Institutions requirement focus study in three areas: the historical development of American institutions and ideals, the Constitution of the United States and the operation of representative democratic government under the Constitution, and the process of California State and local government.
2. Courses in American History will cover significant events from U.S. history, as follows: cover a minimum time span of approximately one hundred years occurring in the entire area now included in the United States of America including the relationships of regions within that area and with external regions and powers, the role of major ethnic and social groups, the "continuity of the American experience" (i.e., not a string of isolated events) and its derivation from others cultures, including study of politics, economics, social movements, and/or geography (at least three of the four).
3. Courses examining the U.S. Constitution will include the political philosophies of the framers of the Constitution, the operation of United States political process and institutions under the U.S. Constitution, and the rights and obligations of individual citizens in the political system established under the Constitution.
4. Courses in the area of California state and local government will address the Constitution of the State of California and the nature and processes of California state and local government.
5. Courses accepted in satisfaction of this requirement must have been approved for satisfaction of the CSU "American Institutions: U.S. History, Constitution, and American Ideals" requirement. See CSU Executive Order 405 for further clarification. It is unlikely that a single course would include sufficient breadth and depth to rigorously satisfy all of the above requirements.

E. Social and Behavioral Sciences

1. Courses in the social and behavioral sciences are those which focus on people as members of society. This category would include introductory or integrative survey courses in cultural anthropology, cultural geography, economics, history, political science, psychology, sociology, and related disciplines.
2. To satisfy the general education requirement in social and behavioral sciences, a course shall be designed to develop an awareness of the methods of inquiry used by the social and behavioral sciences. It shall be designed to stimulate critical thinking about the ways people act and have acted in response to their societies and should promote appreciation of how societies and social subgroups operate.

F. Awareness of Self and Society

1. Courses which contain a breadth of subject matter essential for awareness of self and society.
2. This category should reflect the needs of a dynamic society; therefore, courses may be added, deleted, or changed as the future needs of society may dictate.

G. Ethnic Studies

1. Designated Ethnic Studies courses will be offered in at least one of the areas outlined in Section B above.
2. Ethnic Studies courses must focus on one or more ethnic groups in the U. S.
3. Courses approved for Ethnic Studies designation will satisfy CSU General Education Breadth Area D-3.

(AP 4025, 5/11/10)

Associate Degree General Education Requirements

The Chancellor's Office for the California Community Colleges deems that the governing board of community colleges shall establish a general education program which symbolizes a successful attempt on the part of the college to lead students through patterns of learning experiences designed to develop certain capabilities and insights. Among these are the ability to think and to communicate clearly and effectively both orally and in writing; to use mathematics; to understand the modes of inquiry of the major disciplines; to be aware of other cultures and times; to achieve insight gained through experience in thinking about ethical problems; and to develop the capacity for self-understanding. In addition to these accomplishments, the student shall possess sufficient depth in one field of knowledge to contribute to lifetime interest.

General education is designed to introduce students to the variety of means through which people comprehend the modern world. It reflects the conviction of colleges that those who receive their degrees must possess in common certain basic principles, concepts and

methodologies both unique to and shared by the various disciplines. College educated persons must be able to use this knowledge when evaluating and appreciating the physical environment, the culture and the society in which they live.

Each candidate for the San Joaquin Delta College Associate in Arts or Associate in Science degree shall:

- Complete a minimum of twenty-four (24) semester units of general education coursework as indicated in categories I through VI below with a cumulative grade point average of 2.0 or higher.
- Complete courses in satisfaction of Area I, Language and Rationality, with a grade of "C" or better in each course.
- Complete a minimum of eighteen (18) semester units in a major or area of emphasis with a grade of "C" or better in each course.
- Complete a minimum of sixty (60) degree applicable units with a cumulative grade point average of 2.0 or higher.

A course may be used to satisfy both a general education requirement and a major or area of emphasis requirement. Students planning to transfer should see a counselor for assistance in determining if the CSU-GE or IGETC general education pattern is more appropriate for their selected major.

Program Learning Outcomes

I. Language and Rationality

A. English Composition

Students will demonstrate clear and precise written expression and critical evaluation of communication in the English language.

B. Mathematics

Students will demonstrate the ability to use mathematical concepts and principles in real-world contexts.

C. Oral Communication

Students will demonstrate clear and precise oral expression and critical evaluation of communication in the English language.

II. Natural Sciences

Students will demonstrate an understanding of the scientific method and the relationship between science and human activities.

III. Humanities

Students will recognize the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural forms.

IV. American Institutions

Students will demonstrate an understanding of the historical development of American institutions and ideals, the Constitution, and the representative forms of

government that exist at the national, state and local level.

V. Social and Behavioral Science

Students will demonstrate knowledge of the modes of inquiry and theories that are used to think critically about the ways people act and have acted in response to their societies.

VI. Awareness of Self and Society

Students will demonstrate individual competencies and personal responsibility through exploration and analysis of their role in society.

Area 1 - Language and Rationality

Complete 9 units with at least one course each from 1A-English Composition, 1B-Mathematics, and 1C-Oral Communication. Courses in this area must be completed with a grade of "C" or better.

1A: English Communication

ENG 001A

1B: Mathematics

MATH 001, 002, 003, 004, 005, 010, 012, 013, 017A, 020, 038A, 038B, 039, 086*, 92G, 92S
PSYCH 002

1C: Oral Communication

COM ST 001A

* This course satisfies the Language and Rationality Group 1B requirement in the General Education pattern for the Associate Degrees, but it is not appropriate for students planning to transfer to a four-year college. It will not satisfy the prerequisite for a higher level math course

Area 2 - Natural Sciences

Complete a minimum of 3 units.

AH SC 010

ANTHRO 002

ASTRO 001

BIOL 001, 002, 003, 010, 011, 012, 031, 032, 033

CHEM 001A, 001B, 003A, 003B, 010, 012A, 012B

FCS 006

GEOG 001

GEOL 001A, 001B, 005, 005A, 010, 015, 15A, 016, 16A

NR 002

PHSCI 001

PHYSC 002A, 004A, 010

PLANT 010, 014

Area 3 - Humanities

Complete a minimum of 3 units.

ANTHR 004/HUM 004

ART 001A, 001B, 001C, 002, 003, 004, 006, 007A, 012, 020A, 033A, 040A, 064A

CHIN 001, 002, 003, 004

CIVIL 003/HUM 003

COM ST 002, 013
 CUL ART 016
 DANCE 035A, 037A
 DRAMA 010, 016A, 016B
 ENG 030, 035, 037, 038, 042A, 042B, 043C, 043D,
 44D, 045, 046A, 046B, 047, 049A, 049C, 052, 055A,
 055B, 055C, 057
 FASHION 008, 009, 010
 FREN 001, 002, 003, 004, 005
 GERM 001, 002, 003, 004
 HIST 007
 HORT 004
 HUM 003/CIVIL 003, 004/ANTHRO 004
 ID 008
 ITAL 001, 002, 003, 004
 JAPAN 001, 002, 003, 004
 MUSIC 001, 002A, 002B, 004, 007, 008
 PHILO 006, 045, 050
 PHOTO 001A
 RELGN 014A, 014B
 SL 001, 002, 003, 004
 SPAN 001, 002, 003, 003A, 004, 004A, 005, 006

Area 4 - American Institutions

Complete a minimum of 3 units.

HIST 017A^, 017B^, 027, 030A^, 030B^, 031^, 034^
 POLSC 001, 004

Area 5 - Social and Behavioral Science

Complete a minimum of 3 units.

AGBUS 012
 ANTHRO 001, 006, 010
 BUS 026
 CDEV 021, 026
 ECON 001A, 001B, 013
 GEOG 002, 003, 010
 HIST 002A, 002B, 004A, 004B, 006A^, 006B^, 006C,
 037
 PETHEORY 041
 POLSC 002, 003, 006
 PSYCH, 001, 003, 004
 SOCIO 001A, 020^

Area 6 - Awareness of Self and Society

Complete a minimum of 3 units

AJ 021
 BIOL 030
 PSYCH 030
 BUS 008, 020
 COM ST 003, 005, 007^, 008, 011^, 012
 CS 011
 EDUC 010
 ENG 034
 FCS 002, 003, 019, 023
 GUID 008
 H ED 001
 HS 019/FCS 019
 LIBRY 001, 002, 003, 010
 MCOM 001, 004
 PEACTION 001D, 012A
 PHILO 030, 040

POLSC 005
 PSYCH 030/BIOL 030
 SOCIO 001B, 005, 027, 033

^ Indicates Designated Ethnic Studies Course

Minimum Units Required: 24**NOTICE TO STUDENTS**

Selection of courses from this list may be affected by one or more factors, including choice of major, university transfer requirements, or prerequisite or sequencing requirements. Failure to plan appropriately WILL adversely affect timely graduation and/or transfer. Students are encouraged to consult with a counselor to develop an individualized education plan. Counseling appointments may be scheduled online by selecting "Counseling" under "Student Resources" on the Delta College web site, or by calling the Guidance and Counseling Office.

California State University General Education Requirements, Certificate of Achievement

This certificate is designed for the student who intends to transfer to a California State University. Certification of completion of this certificate of achievement will fulfill lower division General Education Requirements at all CSU campuses and eliminate the need to complete additional lower division general education requirements at the transfer campus. Each candidate for the bachelor's degree from a California State University (CSU) institution shall complete a pattern of forty-eight (48) semester units of general education courses in addition to courses in American History and Institutions. A student may complete a maximum of thirty-nine (39) of the forty-eight (48) units at San Joaquin Delta College. The San Joaquin Delta College forty-three (43) unit requirement allows students to meet both the CSU General Education pattern and the CSU's 40404 requirement for American History and Institutions. Students completing the CSU general education pattern will meet the general education requirements of San Joaquin Delta College's Associate Degree.

Students must file an application for CSU-GE certification and are urged to apply for the CSU-GE Certificate of Achievement with Evaluators at the end of the semester in which all courses have been completed. Contact evaluators from the Delta College homepage, www.deltacollege.edu by selecting "Student Services" and "Evaluations".

Students are encouraged to consult with a counselor to develop a Student Education Plan. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other Counseling and support services.

Failure to consult with a counselor may unnecessarily delay progress toward transfer.

Program Learning Outcomes

The student will have successfully completed all required CSU lower division general education breadth pattern coursework.

Courses shall be selected from Areas A - E below:

Area A - Communication in the English Language and Critical Thinking

Complete 9 units with at least one course each from A1-Oral Communication, A2-Written Communication, and A3-Critical Thinking.

A1: Oral Communication^

COM ST 001A

A2: Written Communication^

ENG 001A

A3: Critical Thinking^

COM ST 005

ENG 001B, 001D

PHILO 030

Area B - Physical Universe and its Life Forms

Complete a minimum of 10 units with at least one course each from B1-Physical Science, B2-Life Science (at least one to include a B3-Laboratory Activity component), and B4-Mathematics/Quantitative Reasoning.

B1: Physical Science

ASTRO 001, 001L*

CHEM 001A*, 001B*, 003A*, 003B*, 012A*, 012B*

GEOG 001, 001L*

GEOL 001A*, 001B*, 005, 005A*, 005L*, 010, 015,

15A*, 016, 16A*

PHSCI 001

PHYSC 002A*, 004A*, 010*

PLANT 014*

B2: Life Science

AH SC 010, 010L*

ANTHR 002, 002L*

BIOL 001*, 002*, 003*, 010*, 011*, 031*, 032*, 033*

N R 002

PLANT 010, 010L*

B3: Laboratory Activity

This requirement will be satisfied by completion of any laboratory course in Area B1 or B2. Laboratory courses are indicated with an asterisk (*).

B4: Mathematics/Quantitative Reasoning^

MATH 001, 002, 003, 004, 005, 010, 012, 013, 017A, 020, 038A, 038B, 039

PSYCH 002

Area C - Arts, Literature, Philosophy, and Languages Other Than English

Complete a minimum of 9 units with at least one course each from C1-Arts and C2-Humanities.

C1: Arts

ART 001A, 001B, 001C, 002, 002A, 003, 004, 006, 007A, 012, 020A, 033A, 040A, 064A

DANCE 029

DRAMA 010, 016A, 016B

ENG 030

FASHION 008

HORT 004

ID 008

MUSIC 001, 002A, 002B, 004, 007, 008

PHOTO 001A

C2: Humanities

CHIN 002, 003, 004

CIVIL 003

ENG 035, 037, 038, 040A, 040B, 042A, 042B, 043C, 043D, 045, 046A, 046B, 049A, 052, 055A, 055B, 055C

FASHION 009, 010

FREN 002, 003, 004, 005

GERM 002, 003, 004

HIST 006C+, 007

HUM 003

ITAL 002, 003, 004

JAPAN 002, 003, 004

PHILO 006, 040, 045, 050

RELGN 014A, 014B

SL 002, 003, 003A, 004, 004A

SPAN 002, 003, 003A, 004, 004A, 005, 006

Area D - Social, Political, and Economic Institutions

Complete a minimum of 9 units from at least two discipline groups.

D0: Sociology and Criminology

AJ 021

SOCIO 001A, 001B, 005, 020, 027, 033

D1: Anthropology and Archeology

ANTHR 001, 006, 010

HIST 004A, 004B

POLSC 001

D2: Economics

AJ 021

AGBUS 012

BUS 026

ECON 001A, 001B, 013

POLSC 005, 006

D3: Ethnic Studies

HIST 006A, 006B, 017A, 017B, 030A, 030B, 031,
034,
SOCIO 020**, 033**

D4: Gender Studies

HIST 017A, 017B, 027, 030A, 030B, 031
PSYCH 001
SOCIO 027

D5: Geography

GEOG 002, 003, 010
HIST 004A, 004B

D6: History

AGBUS 012
HIST 002A, 002B, 004A, 004B, 006A, 006B, 006C+,
017A, 017B, 027, 030A, 030B, 031, 034, 037

D7: Interdisciplinary, Social, or Behavioral Science

ANTHR 006
COM ST 007**, 011**
PETHEORY 041
PSYCH 001

D8: Political Science, Government, and Legal Institutions

BUS 008
HIST 017A, 017B, 030A, 030B, 031
POLSC 001, 002, 003, 004, 005, 006

D9: Psychology

BIOL 030
CDEV 021+
PSYCH 001, 003+, 004, 030+

Area E - Life-Long Learning and Self-Development

Complete a minimum of 3 units, not all in PEACTIV.

ANTHR 004
BIOL 030+
CDEV 021+, 026
COM ST 003
FCS 002, 003, 006, 023
GUID 008
H ED 001, 030
HUM 004
PEACTIV 001D, 009A
PSYCH 003+, 024, 030+

Minimum Units Required: 40

Although not required for certification, students may satisfy the California State University American Institutions requirement through coursework in CSU-GE Area D. This requirement may be met before or after transfer to CSU; however students are advised to meet this requirement prior to transfer and while completing the CSU General Education certification.

At Delta College, students will fulfill the United States History, Constitution, and American Ideals Requirement by completing coursework in one of the following combinations:

HIST 017A and one of the following: HIST 027, HIST 030, HIST 034

OR

POLSC 001 and one of the following: HIST 017A, HIST 017B, HIST 027, HIST 030A, HIST 030B, HIST 031

Course that meet the CSU American Institutions Requirement may also be used to satisfy CSU-GE Area D requirements.

Courses used to satisfy this certificate must have been CSU-GE approved during the semester in which the course was completed.

For a complete listing of courses and approval dates log on to www.assist.org or see a counselor or evaluator for a list of course approval dates.

NOTES:

- ^ Course in this area must be completed with a grade of "C" or better
- + Course may be listed in more than one area but may not be used to certify more than one area.
- * Indicates Laboratory Activity course
- ** Course satisfies CSU Sacramento "Race and Ethnicity in American Society" general education requirement

California State University American Institutions Requirement

Students satisfy the American Institutions requirement of the California State University through coursework in three areas.

- US-1: Historical Development of American institutions and ideals
- US-2: U.S. Constitution and government
- US-3: California state and local government

This requirement may be met before or after transfer to CSU however students are advised to meet this requirement prior to transfer and while completing the CSU General Education certification. If a course is approved for more than one U.S. Area below, a student may use the course to satisfy all areas listed. US-1 may be completed with a score of 3 or higher on Advanced Placement U.S. History. US-2 (but not US-3) may be completed with a score of 3 or higher on Advanced Placement U.S. Government and Politics.

At Delta College, qualifications of these courses to fulfill the United States History, Constitution, and American Ideals requirement is restricted to the following combinations:

HIST 017A and one of the following: HIST 027, HIST 030B, HIST 034, POLSC 004

OR

POLSC 001 and one of the following: HIST 017A, HIST 017B, HIST 027, HIST 030A, HIST 030B, HIST 031

Courses that meet the CSU American Institutions requirement may also be used to satisfy CSU-GE Area D requirements.

Intersegmental General Education Transfer Curriculum - CSU Version, Certificate of Achievement

This certificate is designed for the student who intends to transfer to the California State University (CSU) System and chooses to complete IGETC to satisfy lower division general education requirements. Completion and certification of the Intersegmental General Education Transfer Curriculum (IGETC) CSU version, permits students to transfer from San Joaquin Delta College to a campus of the California State University (CSU) without the need to take additional courses after transfer to satisfy the lower division general education requirements.

The California State University has an American Institutions (AI) requirement that is separate from IGETC requirements. Courses indicated by *** will satisfy the AI requirement. Courses used to satisfy this requirement are listed in IGETC Area 3 and 4. CSU campuses have the discretion whether to allow courses used to satisfy the CSU AI graduation requirement to count in both IGETC areas and to also meet the AI graduation requirement. Students are strongly advised to consult with a counselor or visit assist.org to determine which courses to complete to satisfy the CSU AI requirement. Failure to do so may lead to incorrect course selection and may delay transfer.

Students must file an application for IGETC certification and are urged to also request evaluation for the IGETC CSU Version, Certificate of Achievement with evaluators in the Admissions and Records Office immediately upon completion of IGETC coursework. The Evaluators may be reached by selecting "Student Services" at www.deltacollege.edu and then selecting "Evaluations".

Selection of courses from this list may be affected by one or more factors, including choice of major, university transfer requirements, or prerequisite or sequencing requirements. Failure to plan appropriately will adversely affect timely graduation and/or transfer. Students are encouraged to consult with a counselor to develop an Student Education Plan. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other Counseling and support services.

Program Learning Outcomes

The student will have successfully completed all required IGETC (CSU) lower division general education pattern coursework.

Area 1 - Communication

Complete 9 units with at least one course each from 1A-English Composition, 1B-Critical Thinking, and 1C-Oral Communication.

1A: English Composition

ENG 001A

1B: Critical Thinking - English Composition

ENG 001B, 001D

1C: Oral Communication

COM ST 001A

Area 2 - Mathematical Concepts and Quantitative Reasoning

Complete a minimum of 3 units.

MATH 001+, 002, 003, 004, 012, 013+, 020, 022, 038A+, 038B+, 039+
PSYCH 002

Area 3 - Arts and Humanities

Complete a minimum of 9 units with at least one course each from 3A-Arts, and 3B Humanities.

3A: Arts:

ART 001A, 001B, 001C, 002, 003+

DANCE 29

DRAMA 010, 016A, 016B

ENG 030

MUSIC 001+, 002A, 002B, 004, 007, 008

3B: Humanities:

ANTHR 004

CHIN 003, 004

CIVIL 003

ENG 035, 037, 038, 042A, 042B, 043C, 043D, 045,

046A, 046B, 052, 055A, 055B, 055C

FREN 003, 004, 005

GERM 003, 004

HIST 002A, 002B, 004A, 004B, 006A, 006B, 006C,

007, 017A***, 017B***, 027***, 030A***, 030B***,

031***, 034, 037

HUM 003, 004

JAPAN 003, 004

PHILO 006, 040, 045, 050

RELGN 014A, 014B

SL 003

SPAN 003, 003A, 004

Area 4 - Social and Behavioral Sciences

Complete a minimum of 9 units from at least two disciplines or an interdisciplinary sequence.

4A: Anthropology and Archeology:

ANTHR 001, 006, 010

4B: Economics:

BUS 026

ECON 001A, 001B, 12

POLSC 006

4E: Geography

GEOG 002, 010

4G: Interdisciplinary, Social and Behavioral Sciences

COM ST 007
 PETHEORY 041
 SOCIO 020

4H: Political Science, Government, and Legal Institutions

BUS 008
 POLSC 001***, 002, 003, 004, 005, 006

4I: Psychology

BIOL 030
 CDEV 021+
 PSYCH 001, 003, 004, 030

4J: Sociology and Criminology

SOCIO 001A, 001B, 027, 033

Area 5 Physical And Biological Sciences

Complete a minimum of 7 units with at least one course each from 5A-Physical Science, and 5B-Biological Science. At least one course must include a laboratory component as indicated in Area 5C. Asterisk (*) indicates a Lab course.

5A: Physical Science:

ASTRO 001, 001L*
 CHEM 001A*, 001B*, 003A*+, 003B*#, 012A*#, 012B*
 GEOG 001, 001L*
 GEOL 001A*, 001B*, 005, 005A*, 005L*, 010+, 015, 015A*, 016, 016A*
 PHSCI 001+
 PHYSC 002A*+, 004A*+, 010*+
 PLANT 014*

5B: Biological Science:

ANTHRO 002, 002L*
 BIOL 001*, 002*, 003*, 010+, 011*, 031*+, 032*+, 033*+
 PLANT 010, 010L*

5C: Science Laboratory:

This requirement will be satisfied by completion of any laboratory course in Area 5A or 5B. Laboratory courses are indicated with an asterisk (*).

Minimum Units Required: 37

All courses must be completed with a grade of "C" or better.

NOTICE TO STUDENTS

Courses used to satisfy this certificate must have been IGETC approved during the semester in which the course was completed. For a complete listing of courses and approval dates log on to www.assist.org or see a counselor or evaluator for a list of course approval dates.

IGETC may not be the best choice to satisfy general education requirements for majors that require extensive lower division major preparation. See a counselor or consult www.assist.org for additional IGETC considerations.

NOTES:

- # CHEM 003B and CHEM 012A combined: Maximum credit, one course.
- * Indicates Science Laboratory course
- *** Courses which satisfy the American Institutions Requirement. These courses may not also be used to satisfy IGETC area.
- + Transfer credit may be limited by UC. Students should consult counselor or visit www.assist.org for additional information.

Intersegmental General Education Transfer**Curriculum - UC Version, Certificate of Achievement**

This certificate is designed for the student who intends to transfer to the University of California (UC) System and chooses to complete IGETC to satisfy lower division general education requirements. Completion and certification of the Intersegmental General Education Transfer Curriculum (IGETC) permits students to transfer from San Joaquin Delta College to a campus of the University of California without the need to take additional courses after transfer to satisfy the lower division general education requirements.

The University of California has an American Institutions (AI) requirement that is separate from IGETC requirements. Courses indicated by *** will satisfy the AI requirement but may not also satisfy the area in which it is listed. An additional course must be completed to satisfy the general education requirement for that area. See ** below for additional instructions on completing the AI requirement.

Students must file an application for IGETC certification and are urged to apply for the IGETC UC Version Certificate of Achievement with evaluators in the Admissions and Records Office immediately upon completion of IGETC coursework. Evaluators may be reached by selecting "Student Services on the college home page, www.deltacollege.edu and selecting "Evaluators".

Selection of courses from this list may be affected by one or more factors, including choice of major, university transfer requirements, or prerequisite or sequencing requirements. Failure to plan appropriately will adversely affect timely graduation and/or transfer. Students are encouraged to consult with a counselor to develop an Student Education Plan. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other Counseling and support services.

Program Learning Outcomes

The student will have successfully completed all required IGETC (UC) lower division general education pattern coursework.

Area 1 - Communication

Complete 6 units with at least one course each from 1A-English Composition, 1B-Critical Thinking, and 1C-Oral Communication.

1A: English Composition
ENG 001A

1B: Critical Thinking - English Composition
ENG 001B, 001D

Area 2 - Mathematical Concepts and Quantitative Reasoning

Complete a minimum of 3 units.

MATH 001+, 002, 003, 004, 012, 013+, 020, 022,
038A+, 038B+, 039+
PSYCH 002

Area 3 - Arts and Humanities

Complete a minimum of 9 units with at least one course each from 3A-Arts, and 3B Humanities.

3A: Arts:

ART 001A, 001B, 001C, 002, 003+
DANCE 029
DRAMA 010, 016A, 016B
ENG 030
MUSIC 001+, 002A, 002B, 004, 007, 008

3B: Humanities:

ANTHR 004
CHIN 003, 004
CIVIL 003
ENG 035, 037, 038, 042A, 042B, 043C, 043D, 045,
046A, 046B, 052, 055A, 055B, 055C
FREN 003^, 004^, 005^
GERM 003^, 004^
HIST 002A, 002B, 004A, 004B, 006A, 006B, 006C,
007, 017A***, 017B***, 027***, 030A***, 030B***,
031***, 034, 037
HUM 003, 004
JAPAN 003^, 004^
PHILO 006, 040, 045, 050
RELGN 014A, 014B
SL 003^
SPAN 003^, 003A, 004^

Area 4 - Social and Behavioral Sciences

Complete a minimum of 9 units from at least two disciplines or an interdisciplinary sequence.

4A: Anthropology and Archeology:
ANTHR 001, 006, 010

4B: Economics:
BUS 026
ECON 001A, 001B, 012
POLSC 006

4E: Geography
GEOG 002, 010

4G: Interdisciplinary, Social and Behavioral Sciences
COM ST 007

PETHEORY 041
SOCIO 020

4H: Political Science, Government, and Legal Institutions
BUS 008
POLSC 001***, 002, 003, 004, 005, 006

4I: Psychology
BIOL 030
CDEV 021+
PSYCH 001, 003, 004, 030

4J: Sociology and Criminology
SOCIO 001A, 001B, 027, 033

Area 5 Physical and Biological Sciences

Complete a minimum of 7 units with at least one course each from 5A-Physical Science, and 5B-Biological Science. At least one course must include a laboratory component as indicated with an asterisk (*).

5A: Physical Science:

ASTRO 001, 001L*
CHEM 001A*, 001B*, 003A*+, 003B*#, 012A*#, 012B*
GEOG 001, 001L*
GEOL 001A*, 001B*, 005, 005A*, 005L*, 010+, 015,
015A*, 016, 016A*
PHSCI 001+
PHYSC 002A*+, 004A*+, 010*+
PLANT 014*

5B: Biological Science:

ANTHRO 002, 002L*
BIOL 001*, 002*, 003*, 010+, 011*, 031*+, 032*+,
033*+
PLANT 010, 010L*

5C: Science Laboratory:

This requirement will be satisfied by completion of any laboratory course in Area 5A or 5B. Laboratory courses are indicated with an asterisk (*).

Area 6 - Language Other Than English

Proficiency equivalent to two years of high school study in the same language.

The following course(s) at Delta College fulfill this UC requirement:

CHIN 002, 003^, 004^
FREN 002, 003^, 004^
GERM 002, 003^, 004^
ITAL 002, 003^, 004^
JAPAN 002, 003^, 004^
SL 002, 003^, 004^
SPAN 002, 003^, 003A^, 004^, 004A, 005, 006

Minimum Units Required: 34

All courses must be completed with a grade of "C" or better.

NOTICE TO STUDENTS

Courses used to satisfy this certificate must have been IGETC approved during the semester in which the course was completed. For a complete listing of courses and approval dates log on to www.assist.org or

see a counselor or evaluator for a list of course approval dates.

IGETC may not be the best choice to satisfy general education requirements for majors that require extensive lower division major preparation. See a counselor or consult www.universityofcalifornia.edu/admissions/ or <http://www.universityofcalifornia.edu/admissions/> or www.assist.org for additional IGETC considerations.

NOTES:

- ^ Courses listed in multiple areas shall not be certified in more than one area except for courses in Languages Other Than English, which can be certified in both Area 3 and Area 6.
- * Indicates Science Laboratory course
- ** Students using the IGETC pattern for transfer to a UC campus may have satisfied the American Institutions requirement through high school coursework. Satisfactory completion in high school of a one-year course in U.S. History, or a half-year course in American Government, satisfies this requirement at all UC campuses except UC Santa Barbara, which requires a college level course. UCLA requires that the student must have earned a "B" average in these high school courses. Students who did not satisfy the AI requirement through high school coursework may do so by taking any course indicated by *** on the IGETC. Students must take an additional course in the same IGETC area as the AI requirement to satisfy the area general education requirement. It is highly recommended that you consult a Counselor to ensure successful transfer.
- *** Courses which satisfy the American Institutions Requirement. These courses may not also be used to satisfy IGETC area.
- + Transfer credit may be limited by UC. Students should consult counselor or visit www.assist.org for additional information.
- # CHEM 003B and 012A combined: Maximum credit, one course

Advanced Placement Examination Credit

Students may complete general education (GE) area requirements on the SJDC-GE Pattern, CSU-GE Pattern, or IGETC pattern by earning a satisfactory score on the Advanced Placement (AP), International Baccalaureate (IB), or College Level Examination Program (CLEP) Examinations. College units are awarded and GE areas are cleared as indicated in the chart below.

A satisfactory score in AP English Literature, AP English Language, IB Language A1 (English), or CLEP English Composition with Essay may be used to meet the prerequisite for courses that require ENG 001A.

Students should meet with a counselor to discuss options regarding the use of AP/IB/CLEP examinations to meet specific course requirements or prerequisites within their selected major.

Students who have earned a satisfactory score may receive units, but not a letter grade towards the Associate Degree.

Units and course equivalencies granted by Delta College are not identical to units and course equivalencies granted by other institutions. Each institution has its own policy for determining units and equivalencies awarded. Transfer students should refer to the advanced placement policy at the college or university they are considering transferring to as the application of examination credit is left to the discretion of individual institutions.

An advanced placement examination may duplicate content in certain college courses. In such cases, the student will not receive credit for both the examination and the course. Students are advised to consult with a college counselor, university official, the college catalog, and the advanced placement policy at the transfer institution.

College Board Advanced Placement Tests	Passing Score	Units Awarded	SJDC GE Area	CSU GE Area	IGETC Area	Amer. Inst.
AP Art History	3	3	3	C1 or C2	3A or 3B	
AP Biology	3	4	2	B2+B3	5B w/Lab	
AP Calculus AB (4)	3	3	1B	B4	2A	
AP Calculus BC (4)	3	3	1B	B4	2A	
AP Calculus BC/ AB Subscore (4)	3	3	1B	B4	2A	
AP Chemistry	3	4	2	B1+B3	5A w/Lab	
AP Chinese Language and Culture	3	3	3	C2	3B+6A	
AP Comparative Government & Politics	3	3	5	D8	4H	
AP Computer Science A (4)	3	3	6			
AP Computer Science AB (4)	3	3	6			
AP English Language and Composition	3	3	1A	A2	1A	
AP English Literature and Composition	3	3	1A+3	A2+C2	1A or 3B	
AP Environmental Science (5)	3	4	2	B1+B3	5A w/Lab	
AP European History	3	3	5	C2 or D6	3B	
AP French Language and Culture	3	3	3	C2	3B+6A	
AP French Literature	3	3	3		3B+6A	
AP German Language and Culture	3	3	3	C2	3B+6A	
AP Human Geography	3	3	2	D5	4E	
AP Italian Language and Culture	3	3	3	C2	3B+6A	
AP Japanese Language and Culture	3	3	3	C2	3B+6A	
AP Latin	3	3	3		3B+6A	
AP Latin: Vergil	3	3		C2	3B+6A	
AP Macroeconomics	3	3	5	D2	4B	
AP Microeconomics	3	3	5	D2	4B	
AP Music	3	3	3			
AP Physics 1 (6)	3	4	2	B1+B3	5A w/Lab	
AP Physics 2 (6)	3	4	2	B1+B3	5A w/Lab	
AP Physics C (electricity/magnetism) (6)	3	4	2	B1+B3	5A w/Lab	
AP Physics C (mechanics) (6)	3	4	2	B1+B3	5A w/Lab	
AP Psychology	3	3	5	D9	4I	
AP Spanish Language and Culture	3	6	3	C2	3B+6A	

DEGREE AND PROGRAM REQUIREMENTS

College Board Advanced Placement Tests	Passing Score	Units Awarded	SJDC GE Area	CSU GE Area	IGETC Area	Amer. Inst.
AP Spanish Literature and Culture	3	6	3	C2	3B+6A	
AP Statistics	3	3	1B	B4	2A	
AP Studio Art - 2D Design	3	3	3			
AP Studio Art - 3D Design	3	3	3			
AP Studio Art - Drawing	3	3	3			
AP U.S. Government & Politics	3	3	4	D8+US-2	4H+US2	X
AP U.S. History	3	6	4	(C2 or D6)+US-1	3B+US1	X
AP World History	3	6	5	C2 or D6	3B OR 4F	

International Baccalaureate	Passing Score	Units Awarded	SJDC GE Area	CSU GE Area	IGETC Area
IB Biology HL	5	3	2	B2	5B w/o Lab
IB Chemistry HL	5	3	2	B1	5A w/o Lab
IB Economics HL	5	3	5	D2	4B
IB Geography HL	5	3	2	D5	4E
IB History (any region) HL	5	3	5	C2 or D6	3B
IB Language A Literature HL	4	3	3	C2	3B
IB Language A Language and Literature HL	4	3	3	C2	3B+6A
IB Language B (any language) HL (8)	4	3	3		6A
IB Mathematics HL	4	3	1B	B4	2A
IB Physics HL	5	3	2	B1	5A w/o Lab
IB Psychology HL	5	3	5	D9	4I
IB Theatre HL	4	3	3	C1	3A

College-Level Examination Program	Passing Score	Units Awarded	SJDC GE Area	CSU GE Area	IGETC Area	Amer. Inst.
CLEP American Government	50	3	4	D8		
CLEP American Literature	50	3	3	C2		
CLEP Analyzing and Interpreting Literature	50	3	3	C2		
CLEP Biology	50	3	2	B2		
CLEP Calculus	50	3	1B	B4		
CLEP Chemistry	50	3	2	B1		
CLEP College Algebra	50	3	1B	B4		
CLEP College Algebra - Trigonometry	50	3	1B	B4		
CLEP College Mathematics	50	0				
CLEP English Composition	50	0				
CLEP English Composition Modular	50	0				
CLEP English Literature	50	3				
CLEP Financial Accounting	50	3				
CLEP French (7) Level I	50	3				
CLEP French (7) Level II	59	3	3	C2		
CLEP Freshman College Composition	50	0				
CLEP German (7) Level I	50	6	3			
CLEP German (7) Level II	60	3	3	C2		
CLEP History, United States I	50	3	4	D6+US-1		X
CLEP History, United States II	50	3	4	D6+US-1		X
CLEP Human Growth and Development	50	3	5	E		

College-Level Examination Program	Passing Score	Units Awarded	SJDC GE Area	CSU GE Area	IGETC Area	Amer. Inst.
CLEP Humanities	50	3	3	C2		
CLEP Information Systems and Computer Applications	50	3				
CLEP Introduction to Educational Psychology	50	0				
CLEP Introductory Business Law	50	0				
CLEP Introductory Psychology	50	3	5	D9		
CLEP Introductory Sociology	50	3	5	D0		
CLEP Natural Sciences	50	3	2	B1 OR B2		
CLEP Pre-Calculus	50	3	1B	B4		
CLEP Principles of Accounting	50	0				
CLEP Principles of Macroeconomics	50	3	5	D2		
CLEP Principles of Management	50	0				
CLEP Principles of Marketing	50	0				
CLEP Principles of Microeconomics	50	3	5	D2		
CLEP Social Sciences and History	50	0				
CLEP Spanish (7) Level I	50	3	3			
CLEP Spanish (7) Level II	63	3	3	C2		
CLEP Trigonometry	50	3	1B	B4		
CLEP Western Civilization I	50	3	3	C2 or D6		
CLEP Western Civilization II	50	3	3	D6		

Footnotes

1. These units count toward eligibility for admission. The units may not all apply toward certification of the corresponding GE-Breadth area. See Executive Orders 1036 and 1100 for details.
2. Areas of GE Breadth (A1 through E) are defined in EO 1100. Areas of American Institutions (US-1 through US-3) are set forth in Sections IA and IB of EO 1061, and at assist.org.
3. Students seeking certification in GE Breadth prior to transfer must have passed the test before this date.
4. If a student passes more than one AP exam in calculus or computer science, only one examination may be applied to the baccalaureate.
5. Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of GE Breadth. Fall of 09 or later, those credits may only apply to B1+B3.
6. If a student passes more than one AP exam in physics, only six units of credit may be applied to the baccalaureate, and only four units of credit may be applied to a certification in GE Breadth.
7. If a student passes more than one CLEP test in the same language other than English (e.g., two exams in French), then only one examination may be applied to the baccalaureate. For each test in a language other than English, a passing score of 50 is considered "Level I" and earns six units of baccalaureate credit; the higher score listed for each test is considered "Level II" and earns additional units of credit and placement in Area C2 of GE Breadth, as noted.
8. The IB curriculum offers language at various levels for native and non-native speakers. Language B courses are offered at the intermediate level for non-natives. Language A1 and A2 are advanced courses in literature for native and non-native speakers, respectively.

Transferring to a Four-Year Institution

Students planning to transfer to a four-year institution from San Joaquin Delta College should consult with a Delta College counselor, a representative of the campus to which you plan to transfer, and/or refer to the college catalog and web site for that campus in order to obtain the most current information. There are four areas to research when planning the courses needed to transfer:

1. Admission requirements for the planned college or university.

2. Major preparation courses, which meet prerequisites for upper division course work, should be completed at Delta College before transfer. Information for UC/CSU major preparation can be found at: www.assist.org.
3. Lower division general education requirements.
4. Other requirements that can be completed at Delta College, such as foreign language or diversity classes.

Associate Degree for Transfer to California State University (AA-T/AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an “associate degree for transfer”, a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system but not to a particular campus or major. In order to earn one of these degrees, students must complete a minimum of 60 required semester units of CSU-transferable coursework with a minimum GPA of 2.0. Note: Course substitution for associate degrees for transfer is limited to students transferring from another accredited institution that has an aligned degree in the same discipline (AP 4042, 2/14/12). Students transferring to a CSU campus that does accept the AA-T or AS-T will be required to complete no more than 60 units after transfer to earn a bachelor's degree (unless the major is a designated “high-unit” major). This degree may not be the best option for students intending to transfer to a particular CSU campus or university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

The table below lists the Associate Degrees for Transfer to CSU offered at Delta College and the Academic Divisions in which you will find them:

Degree	Division
Administration of Justice	Humanities, Social Science, Education, Kinesiology and Athletics
Agriculture Business	Agriculture, Science and Mathematics
Anthropology	Humanities, Social Science, Education, Kinesiology and Athletics
Art History	Arts and Communication
Business Administration	Applied Science, Business and Technology
Communication Studies	Arts and Communication
Computer Science	Agriculture, Science and Mathematics
Early Childhood Education	Humanities, Social Science, Education, Kinesiology and Athletics
Elementary Teacher Education	Humanities, Social Science, Education, Kinesiology and Athletics
English	Languages, Library and Learning Resources
Geology	Agriculture, Science and Mathematics
History	Humanities, Social Science, Education, Kinesiology and Athletics
Journalism	Arts and Communication
Kinesiology	Humanities, Social Science, Education, Kinesiology and Athletics
Mathematics	Agriculture, Science and Mathematics
Music	Arts and Communication
Physics	Agriculture, Science and Mathematics
Political Science	Humanities, Social Science, Education, Kinesiology and Athletics
Psychology	Humanities, Social Science, Education, Kinesiology and Athletics
Spanish	Languages, Library and Learning Resources
Studio Arts	Arts and Communication
Theatre Arts	Arts and Communication

The following is required for all AA-T or AS-T degrees:

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.
3. Completion of a minimum of 18 semester units in an AA-T or AS-T major as defined in the Delta College Catalog. All courses in the major must be completed with a grade of C or better or a "P" if the course is taken on a "pass-no pass" basis (Title 5 § 55063).

4. Completion of the California State University General Education Requirements Certificate of Achievement (CSU GE); OR the Intersegmental General Education Transfer Curriculum-CSU Version Certificate of Achievement (IGETC-CSU).

Minimum Admission Requirements

Transfer to a California State University (CSU):

Admission requirements for students who have completed fewer than 60 transferable units at the time of entry to the CSU:

- have a college grade point average of 2.0 or better in all transferable college units attempted;
- be in good standing at the last college or university attended (eligible to re-enroll);
- meet the admission requirements as a first-time freshman or successfully complete necessary courses to make up the deficiencies;
- meet the eligibility index required of freshman: students may need SAT or ACT test scores, depending on grade point average and the requirements for the intended campus;
- contact the planned campus to determine whether there are limits on admission as a lower division transfer student. Some campuses may require completion of English composition and general education mathematics. Many campuses require junior status to transfer.

Admission requirements for students who have completed 60 or more transferable units at the time of entry to the CSU:

- have a college grade point average of 2.0 or better in all transferable college units attempted;
- be in good standing at the last college or university attended (eligible to re-enroll);
- complete 30 semester units of courses equivalent to general education requirements with a grade of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course in college level mathematics.

Admission requirements for the Associate Degree for Transfer (AA-T/AS-T)

- Complete an AA-T or AS-T degree that includes:
- 60 CSU transferable units with a grade point average of 2.0 or higher.
- Complete either the CSU-General Education Breadth Pattern (CSU-GEB) or the Intersegmental General Education Transfer Pattern, CSU version (IGETC-CSU).
- A minimum of 18 units in the major.

Transfer to a University of California (UC):

Admission requirements for students who have completed fewer than 60 transferable units at the time of entry to the UC:

- meet the admission requirements for a first-time freshman (A-G subjects, grades, and test requirements), or successfully complete courses to make up any subject deficiencies;
- have a college grade point average of 2.0 or better in all transferable college units attempted; and,
- the planned campus should be contacted to determine whether there are limits on admission as a lower division transfer student. Many campuses require junior status for transfer.

Admission requirements for students who have completed 60 transferable units at the time of entry to the UC:

- have a college grade point average of at least a 2.4 (while this is the minimum GPA, a student should have a higher GPA to be competitive at admission);
- complete two transferable college courses in English composition, one transferable college course in mathematical concepts and quantitative reasoning, and four UC transferable courses chosen from at least two of the following subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences.

*NOTE: UC limits transferability of physical education courses to four units of combined activity (PEACTIV) courses and eight units of combined theory (PETHEORY) courses. Students are advised to see a counselor for additional information. For more information, visit (www.ucop.edu/pathways), or obtain printed materials in the Career Transfer Center.

Transfer to a California Independent College or University:

Each of these campuses maintain different admission requirements. To begin exploring and identifying the campus suited to ones needs, students should:

1. Visit www.aiccmmentor.org. This web site provides information about California's independent colleges and universities. Visit specific campus web sites for additional admissions information.
2. Visit the planned campuses.
3. Learn how to apply for financial aid in California.

General Education Transfer Requirements

Each of the California State University (CSU) and the University of California (UC) campuses have different general education requirements. Depending on the chosen campus and major, the student may be advised to complete minimum general education courses or an entire general education pattern while at Delta College. The minimum general education pattern is called the campus-specific general education breadth pattern. There are three complete general education patterns. For transfer to CSU only, the student may complete the CSU-GE pattern, depending upon the major. For transfer to UC and CSU, the student may complete the Intersegmental General Education Transfer Curriculum (IGETC), UC or CSU Version, depending upon the major. Students are advised to consult with a counselor, university representative, or university web site to determine which GE pattern will satisfy the general education requirements needed at the planned transfer institution. Students completing an AA-T or AS-T degree for transfer to CSU should complete the entire CSU-GE or IGETC (CSU) GE patterns unless otherwise specified. CSU-GE and IGETC patterns must be certified prior to transfer. Students completing a AA-T or AS-T degree do not need to have GE certified but should apply for the CSU-GE or IGETC Certificate of Achievement. Visit the Evaluations Office for additional information by selecting "Student Services" from the

Delta College home page and then selecting "Evaluations".

Major Preparation

Each four-year institution has a specific list of courses required to prepare a student for a major. Students should:

1. Complete a AA-T or AS-T degree if available for transferring to a CSU.
2. Meet with a counselor to discuss which courses are appropriate for the major they plan to pursue at a particular school. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other Counseling and support services.
3. Visit the web site, www.assist.org, to learn more about preparation for the major at the UC/CSU to which the student intends to transfer.
4. Visit the web site for the school to which the student intends to transfer.
5. Visit the campus of the school which the student intends to transfer and speak with an advisor in the major department to learn more about the specific preparation that is required.
6. Meet with a representative from the transfer institution in the Delta College Career and Transfer Center. Check with Transfer Center staff to determine if or when the preferred transfer institution representative will be available for appointments.

Other Requirements

Students may be able to satisfy additional campus-specific requirements of the transfer institution prior to transfer. These requirements may include foreign language, diversity, ethnic studies, or courses used to satisfy writing competencies at the receiving institution. Students are advised to consult with a counselor to determine if the transfer campus has such requirements. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other Counseling and support services.

Satisfying the American Institutions Requirement When Using IGETC-CSU Version

Students using the IGETC-CSU Version General Education Pattern to transfer to a CSU campus should complete the CSU American Institutions Graduation

Requirement outlined following the CSU General Education Pattern in this Catalog. This is not a requirement for transfer, but it is highly recommended that it be completed prior to transfer.

University of California, (UC)

Students using the IGETC-UC Version General Education Pattern for transfer to a UC campus may have satisfied the American History and Institutions requirement through high school course work. Satisfactory completion of a one-year course in U.S. History, or a half-year course in U.S. History, and a half-year course in American government in high school, satisfies this requirement at all UC campuses except at UC Santa Barbara, which requires a college-level course. UCLA requires that the student must have earned a "B" average in these high school courses. Students who did not satisfy the American History and Institutions requirement through high school coursework may do so by completing indicated courses on the IGETC Pattern. Students are advised to consult with a Counselor to ensure successful transfer.

General Education Certification

Following admission to a four-year college or university, and during the final semester of enrollment at Delta College, students may request General Education Certification for completion of the California State University General Education Pattern or the Intersegmental General Education Transfer Curriculum (IGETC), UC or CSU version. The certification process provides community college transfer students the opportunity to complete all lower division general education course work prior to transfer. Forms to apply for general education certification are available in the Admissions and Records Office, the Counseling Center, or online under "Forms" on the Evaluations web page.

University of California (UC) Transfer Admissions Guarantee (TAG) Program

Six University of California (UC) campuses, Davis, Irvine, Merced, Riverside, Santa Barbara, and Santa Cruz; provide California Community College students the opportunity to develop a Transfer Admission Guarantee (TAG) with one of these campuses. Approved TAGs guarantee admission to the UC campus indicated. UC TAGs are submitted during the month of September for admission consideration for the following fall term. Only UC Merced accepts TAG applications for the spring semester and those TAGs must be submitted in the month of June for admission consideration for the following spring term. Students who submit a TAG in September will also be required to submit a formal UC Application for Admission during the month of November for fall admission and the month of July for the spring semester. Students who fulfill the conditions as outlined on the TAG will be guaranteed admission upon completion of the formal admission process.

Students who are interested in obtaining a UC TAG are encouraged to meet with a Delta College counselor as early as possible to develop a Comprehensive Student Education Plan (CSEP), a document that identifies all of the lower division courses offered at the community college that the student will need to complete in order to become TAG eligible and well prepared in their academic major once they transfer to the UC.

Another key step is for students interested in obtaining a UC TAG is to create an account on the UC Transfer Admission Planner (UC TAP) as soon as possible. The student should enter his/her personal information and all of the coursework that has been completed, as well as courses in progress and planned, according to the CSEP document. The UC TAP can help the student to monitor his/her progress every semester. As a web-based site, the counselor and UC staff can engage with the student online at the UC TAP website by providing additional advising and support, and also to make available to the student, opportunities to participate in activities designed to help the student to transfer.

Another type of guaranteed admission, Transfer Admission Agreement (TAA), is offered by the University of Pacific and is available for select majors only. The California State University (CSU) grants priority admission consideration for students who will complete the Associate Degree for Transfer (ADT) in an AA-T or AS-T major deemed similar to the degree at the CSU. Students who reside within the local area of a particular CSU campus that serves their region are also given priority admission. For more information and to develop a CSEP with a Delta Counselor, counseling appointments may be scheduled online by selecting "Counseling Center" under "Student Services" on the Delta College homepage: www.deltacollege.edu

Appointments with the Lead Counselor for Transfer and with the University Representatives who visit Delta's campus can be made by calling (209) 954-5151, ext. 6218.

Essential Transfer Information

The following information is a brief overview of what students are advised to complete in order to transfer successfully:

- See a counselor at least once each semester to serve as your guide to the transfer process. Counseling appointments may be scheduled online by selecting "Counseling Center", "Make a Counseling Appointment" under "Student Services" on the Delta College Home Page, www.deltacollege.edu. Counseling appointments are not available by phone. The Counseling Center may be reached at (209) 954-5151, ext. 6276 for information regarding other counseling and support services.
- Counselors can assist in researching careers and majors that will fit with the student's personal interests and abilities.
- Research college campuses that have the selected major and fit the lifestyle the student would like in a four-year college or university. Arrange to visit these campuses.
- If transferring to a CSU campus, determine if the AA-T or AS-T degree exists for your intended major.
- Develop an educational plan with a counselor that will serve as map to transfer. You can use www.assist.org to determine major preparation requirements at individual CSU and UC campuses.
- Ascertain if the planned college or university provides a Transfer Admission Guarantee (TAG) agreement.
- Complete the appropriate general education pattern and maintain the required grade point average (GPA).
- Complete the AA-T/AS-T degree or major preparation course work with the required GPA, which will prepare the student for admission to the chosen major at the junior level.
- Apply to the college or university of your choice within the posted deadlines. Failure to apply early in the application period may negatively affect your ability to transfer.
- Apply for the Associate Degree and graduation from Delta College, if applicable.
- Once accepted to a college or university, have the general education pattern certified as complete by the evaluations office. Evaluation information may be reviewed by selecting "Evaluations" under "Services and Support" on the Delta College web site, www.deltacollege.edu. Students transferring to a CSU campus with a completed AA-T or AS-T degree do not need to have general education certified. All students should apply for a Certificate of Achievement in CSU GE or IGETC, depending

upon which GE pattern was completed. Evaluators may be contacted by e-mail at: ar-evaluations@deltacollege.edu

- Forward final grades to the university as soon as they have been posted to the transcript.
 - Follow all notices from the school, making special note of any deadlines that may be approaching.
- Register for classes at the date and time assigned.

Congratulations! You've accomplished a goal of major importance that will help to transform the rest of your life.

Cross Listed Courses

The following courses are cross-listed as shown as existing in more than one discipline of the college. The following cross-listed courses contain identical curriculum/course requirements:

AGEGR 074	AUTOMECH 074
ANTHR 004	HUM 004
AUTOMECH 074	AGEGR 074
BIOL 030	PSYCH 030
BUS 006	COM ST 006
CIVIL 003	HUM 003
COM ST 006	BUS 006
FASHION 006	ID 006
FASHION 018	ID 018
FASHION 019	ID 019
FASHION 021	ID 021
FCS 019	H S 019
H S 019	FCS 019
HUM 003	CIVIL 003
HUM 004	ANTHR 004
ID 006	FASHION 006
ID 018	FASHION 018
ID 019	FASHION 019
ID 021	FASHION 021
PSYCH 030	BIOL 030
PSYCH 045A	SOCIO 045A
PSYCH 045B	SOCIO 045B
SOCIO 045A	PSYCH 045A
SOCIO 045B	PSYCH 045B

COURSE EQUIVALENCE

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Course	Equivalent Course(s)
A-ELE 076A	A-ELE 077A
A-ELE 076B	A-ELE 077B
A-ELE 076C	A-ELE 077C
A-ELE 076D	A-ELE 077D
A-ELE 076E	A-ELE 077E
A-ELE 076F	A-ELE 077F
A-ELE 076G	A-ELE 077G
A-ELE 077A	A-ELE 076A
A-ELE 077B	A-ELE 076B
A-ELE 077C	A-ELE 076C
A-ELE 077D	A-ELE 076D
A-ELE 077E	A-ELE 076E
A-ELE 077F	A-ELE 076F
A-ELE 077G	A-ELE 076G
AGEGR 030C	SM ENG 030C
AGEGR 064	AGEGR 074 AUTO 064
AGEGR 065	SM ENG 065
AGEGR 066	SM ENG 066
AGEGR 074	AGEGR 064 AUTO 064
AGEGR 080	CAT 080
AGEGR 081	CAT 081
AGEGR 082	CAT 082
AGEGR 083	CAT 083
AGEGR 084	CAT 084
AGEGR 085	CAT 085
AGEGR 086	CAT 086
AGEGR 087	CAT 087
AGEGR 090	CAT 090
AGEGR 091	CAT 091
ALTW 131	SP ED 131
ALTW 132	SP ED 132
ALTW 133	SP ED 133
ALTW 134	SP ED 159
ANAT 001	BIOL 031
ANAT 002	BIOL 033
ANTHR 004	HUM 004
ANTHR 010L	ANTHR 012A
ANTHR 012A	ANTHR 010L
ARAB 001	ARAB 051
ARAB 051	ARAB 001
ARCH 001	CONST 046
ARCH 003	ARCH 021 CONST 055
ARCH 009	ARCH 022 CONST 045
ARCH 012	ARCH 058A E TECH 012 ENGR 058A
ARCH 021	ARCH 003 CONST 055
ARCH 022	ARCH 009 CONST 045
ARCH 058A	ARCH 012 E TECH 012 ENGR 058A
ARCH 058B	E TECH 023 ENGR 058B
ARCH 058C	E TECH 025 ENGR 058C
ARCH 058D	E TECH 022

	ENGR 058D
ARCH 058E	E TECH 024 ENGR 058E
ARCH 078	CONST 078
ART 064C	ART 065A
ART 064D	ART 065B
ART 065A	ART 064C
ART 065B	ART 064D
ART 075	ART 080
ART 080	ART 075
ATH 001	P E 009H PEACTIV 009H
ATH 042	P E 006 PEACTIV 006
ATH 044	P E 026 P E 026A PEACTIV 026
ATH 045	P E 027 P E 027B PEACTIV 027
ATH 046	P E 029 P E 029A PEACTIV 029
ATH 047	P E 028 P E 028G PEACTIV 028
AUTO 050	AUTOMECH097
AUTO 051	AUTOMECH094
AUTO 052	AUTOMECH093
AUTO 053	AUTOMECH092
AUTO 054	AUTOMECH091
AUTO 055	AUTOMECH096B
AUTO 056	AUTOMECH096A
AUTO 057	AUTOMECH095
AUTO 062	AUTOMECH072
AUTO 063	AUTOMECH073
AUTO 064	AGEGR 064 AGEGR 074 AUTOMECH074
AUTO 064	AGEGR 064 AGEGR 074 AUTOMECH074
AUTO 069W	AUTOBODY069W
AUTO 070A	AUTOMECH090A
AUTO 070B	AUTOMECH090B
AUTO 080A	AUTOBODY080A
AUTO 080B	AUTOBODY080B
AUTO 080C	AUTOBODY080C
AUTO 080D	AUTOBODY080D
AUTO 080E	AUTOBODY080E
AUTO 080F	AUTOBODY080F
AUTO 080G	AUTOBODY080G
AUTO 080H	AUTOBODY080H
AUTO 081A	AUTOBODY081A
AUTO 081B	AUTOBODY081B
AUTO 081C	AUTOBODY081C
AUTO 081D	AUTOBODY081D
AUTO 084A	AUTOBODY084A
AUTO 084B	AUTOBODY084B
AUTO 084C	AUTOBODY084C
AUTO 084D	AUTOBODY084D
AUTO 087A	AUTOMECH087A
AUTO 087B	AUTOMECH087B

AUTO 087C	AUTOBODY087C
AUTOBODY069W	AUTO 069W
AUTOBODY080A	AUTO 080A
AUTOBODY080B	AUTO 080B
AUTOBODY080C	AUTO 080C
AUTOBODY080D	AUTO 080D
AUTOBODY080E	AUTO 080E
AUTOBODY080F	AUTO 080F
AUTOBODY080G	AUTO 080G
AUTOBODY080H	AUTO 080H
AUTOBODY081A	AUTO 081A
AUTOBODY081B	AUTO 081B
AUTOBODY081C	AUTO 081C
AUTOBODY081D	AUTO 081D
AUTOBODY084A	AUTO 084A
AUTOBODY084B	AUTO 084B
AUTOBODY084C	AUTO 084C
AUTOBODY084D	AUTO 084D
AUTOBODY087C	AUTO 087C
AUTOMECH072	AUTO 062
AUTOMECH073	AUTO 063
AUTOMECH074	AUTO 064
AUTOMECH087A	AUTO 087A
AUTOMECH087B	AUTO 087B
AUTOMECH090A	AUTO 070A
AUTOMECH090B	AUTO 070B
AUTOMECH091	AUTO 054
AUTOMECH092	AUTO 053
AUTOMECH093	AUTO 052
AUTOMECH094	AUTO 051
AUTOMECH095	AUTO 057
AUTOMECH096A	AUTO 056
AUTOMECH096B	AUTO 055
AUTOMECH097	AUTO 050
BIM 080	CSA 023
BIM 085A	SP ED 085A
BIM 085B	SP ED 085B
BIOL 002	ZOOL 001
BIOL 003	BOT 001
BIOL 008	BIOL 010
BIOL 010	BIOL 008
BIOL 022	MICRO 002
BIOL 023	MICRO 003
BIOL 030	PSYCH 030
BIOL 031	ANAT 001
BIOL 032	PHYSI 001
BIOL 033	ANAT 002
BOT 001	BIOL 003
BROAD 001	RTV 001
BROAD 009	RTV 021
BUS 006	SPCH 006
BUS 007	BUS 017B
BUS 010B	BUS 080
BUS 014	C S 014
BUS 017	BUS 017A
BUS 017A	BUS 017
BUS 017B	BUS 007
BUS 032	INDUS 032 INDUS 039
BUS 035	C S 035
BUS 039	BUS 072 BUS 089

COURSE EQUIVALENCE

BUS 072	BUS 039
	BUS 089
BUS 077	C S 077
	CS 077
BUS 080	BUS 010B
BUS 082A	MATH 077A
BUS 082B	MATH 077B
BUS 089	BUS 039
	BUS 072
C S 011	CS 011
C S 012	CS 012
C S 014	BUS 014
C S 014B	CS 014B
C S 015M	C S 058A
	C S 072A
	CSN 058A
C S 015N	C S 058B
	C S 072B
	CSN 058B
C S 017	CSP 017
C S 020	CSA 020
C S 021	CSW 021
	ENGR 021
C S 023	CSW 023
C S 025	CSP 025
C S 026A	CSP 026A
C S 026B	CSP 026B
C S 027	ENGR 027
C S 028A	CSP 028A
C S 029A	CSP 029A
C S 031A	CSP 031A
C S 031B	CSP 031B
C S 033	CS 033
C S 034	CSW 034
C S 035	BUS 035
	CSA 035
C S 035	BUS 035
	CSA 035
C S 036	CSW 036
C S 037	CSW 037
C S 038	CSW 038
C S 039	CSW 039
C S 042	CS 042
C S 043A	CSP 043A
C S 043B	CSP 043B
	CSP 045
C S 045	CSA 045
	CSA 071
C S 046	CS 046
C S 054	CS 054
C S 056	CS 056
C S 058A	C S 015M
	C S 072A
	CSN 058A
C S 058B	C S 015N
	C S 072B
	CSN 058B
C S 058C	CSN 058C
C S 058D	CSN 058D
C S 070	CS 070
C S 072A	C S 015M
	C S 058A
	CSN 058A
C S 072B	C S 015N
	C S 058B
	CSN 058B
C S 077	BUS 077

	CS 077
C S 095B	CSA 081A
C S 095C	CSA 082A
C S 095D	CSA 084A
CAT 080	AGEGR 080
CAT 081	AGEGR 081
CAT 082	AGEGR 082
CAT 083	AGEGR 083
CAT 084	AGEGR 084
CAT 085	AGEGR 085
CAT 086	AGEGR 086
CAT 087	AGEGR 087
CAT 090	AGEGR 090
CAT 091	AGEGR 091
CDEV 021	FCS 021
	H EC 021
	PSYCH 021
CDEV 025	FCS 025
	H EC 031
CDEV 026	FCS 026
	H EC 028
	SOCIO 040
CDEV 028	FCS 028
	H EC 027
CDEV 029	FCS 029
	H EC 038A
CDEV 030	FCS 030
	H EC 038B
CDEV 031A	FCS 031A
	H EC 034A
CDEV 031B	FCS 031B
	H EC 034B
CDEV 032A	FCS 032A
	H EC 036A
CDEV 032B	FCS 032B
	H EC 036B
CDEV 033	FCS 033
	H EC 024
CDEV 034	FCS 034
	H EC 023
CDEV 036	FCS 036
	H EC 026
CDEV 037	FCS 037
	H EC 037
CDEV 038	FCS 038
	H EC 037F
CDEV 039	FCS 039
CDEV 061A	FCS 061A
	H EC 079A
CDEV 061B	FCS 061B
	H EC 079B
CDEV 062	FCS 062
	H EC 077F
CDEV 063	FCS 063
	H EC 077A
CDEV 064	FCS 064
CDEV 070	FCS 070
	H EC 084
CDEV 071	FCS 071
	H EC 074
CDEV 072	FCS 072
	H EC 077B
CDEV 073	FCS 073
	H EC 077C
CDEV 074	FCS 074
	H EC 077E
CDEV 076	FCS 076
	H EC 015A

CDEV 083	FCS 083
CIVIL 003	HUM 003
COM ST 001A	COMM ST 001A
	SPCH 001A
COM ST 001B	COMM ST 001B
	SPCH 001B
COM ST 002	COMM ST 002
COM ST 003	COMM ST 003
	SPCH 003
COM ST 004	COMM ST 004
	SPCH 004
COM ST 005	COMM ST 005
	SPCH 005
COM ST 006	COMM ST 006
COM ST 007	COMM ST 007
	SPCH 007
COM ST 008	COMM ST 008
	SPCH 008
COM ST 009	COMM ST 009
	SPCH 009
COM ST 010	COMM ST 010
COM ST 011	COMM ST 011
COM ST 015	COMM ST 015
	SPCH 015
COM ST 015A	COMM ST 015A
COM ST 015C	COMM ST 015C
COM ST 050H	COMM ST 050H
	SPCH 050H
COM ST 052	COMM ST 052
COMM 001	COMM DIS001
	COMM DIS001B
COMM 002	COMM DIS001A
	COMM DIS002
	SP ED 002
COMM 003	COMM DIS003
COMM 005	COMM DIS005
COMM 007	COMM DIS007
COMM 009	COMM DIS009
COMM DIS001	COMM 001
	COMM DIS001B
COMM DIS001A	COMM 002
	COMM DIS002
	SP ED 002
COMM DIS001B	COMM 001
	COMM DIS001
COMM DIS002	COMM 002
	COMM DIS001A
	SP ED 002
COMM DIS003	COMM 003
COMM DIS005	COMM 005
COMM DIS007	COMM 007
COMM DIS009	COMM 009
COMM ST 001A	COM ST 001A
	SPCH 001A
COMM ST 001B	COM ST 001B
	SPCH 001B
COMM ST 002	COM ST 002
COMM ST 003	COM ST 003
	SPCH 003
COMM ST 004	COM ST 004
	SPCH 004
COMM ST 005	COM ST 005
	SPCH 005
COMM ST 006	COM ST 006
COMM ST 007	COM ST 007
	SPCH 007
COMM ST 008	COM ST 008

	SPCH 008
COMM ST 009	COM ST 009 SPCH 009
COMM ST 010	COM ST 010
COMM ST 011	COM ST 011
COMM ST 015	COM ST 015 SPCH 015
COMM ST 015A	COM ST 015A
COMM ST 015C	COM ST 015C
COMM ST 050H	COM ST 050H SPCH 050H
COMM ST 052	COM ST 052
CONST 045	ARCH 009 ARCH 022
CONST 046	ARCH 001
CONST 051A	CONST 071A
CONST 051B	CONST 071B
CONST 051C	CONST 071C
CONST 051D	CONST 071D
CONST 055	ARCH 003 ARCH 021
CONST 069V	CONST 098V
CONST 071A	CONST 051A
CONST 071B	CONST 051B
CONST 071C	CONST 051C
CONST 071D	CONST 051D
CONST 078	ARCH 078
CONST 098V	CONST 069V
CS 011	C S 011
CS 012	C S 012
CS 014B	C S 014B
CS 022	CSW 022
CS 033	C S 033
CS 042	C S 042
CS 046	C S 046
CS 054	C S 054
CS 056	C S 056
CS 070	C S 070
CS 077	BUS 077 C S 077
CSA 020	C S 020
CSA 023	BIM 080
CSA 035	C S 035
CSA 045	C S 045
	CSA 071
CSA 071	C S 045
	CSA 045
CSA 081A	C S 095B
CSA 082A	C S 095C
CSA 084A	C S 095D
CSN 058A	C S 015M C S 058A C S 072A
CSN 058B	C S 015N C S 058B C S 072B
CSN 058C	C S 058C
CSN 058D	C S 058D
CSP 017	C S 017
CSP 025	C S 025
CSP 026A	C S 026A
CSP 026B	C S 026B
CSP 028A	C S 028A
CSP 029A	C S 029A
CSP 031A	C S 031A
CSP 031B	C S 031B
CSP 043A	C S 043A

		DANCE	010A
		DANCE	010B
DANCE	010A	DANCE	008A
		DANCE	010
		DANCE	010B
DANCE	010B	DANCE	008A
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		DANCE	011A
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		DANCE	013A
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DIESL	069V	DIESL	098V

COURSE EQUIVALENCE

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DIESL 098	DIESL 048
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E M 037	E M 082B
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	ENGR 058A
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	ENGR 058B
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	ENGR 058E
E TECH 025	ARCH 058C
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	ENGR 065
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E TECH 035	ENGR 064
E TECH 037	ENGR 046
	ENGR 056
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E TECH 042	ENGR 066
E TECH 043	ENGR 053
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ELEC 032	ELEC 076
ELEC 033	ELEC 077
ELEC 038	ELEC 073
ELEC 039	ELEC 070
ELEC 051	ELEC 015K
ELEC 070	ELEC 039
ELEC 073	ELEC 038
ELEC 076	ELEC 032
ELEC 077	ELEC 033
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ELECT 098V	ELECT 069V
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ENG 032M	MATH 032
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ENG 044C	ENG 049C

ENG 044E	ENG 049A
ENG 049A	ENG 044E
ENG 049B	ENG 044A
ENG 049C	ENG 044C
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	MCOM 053
ENG 055	ENG 055A
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ENG 085	ESL 088
ENG 086D	ESL 080
ENG 086E	ESL 083
ENG 086F	ESL 086
ENG 095	ENG 077C
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ENGR 003	E TECH 003
	E TECH 013
ENGR 004	ENGR 045
ENGR 005	E TECH 011
ENGR 006	ENGR 038
ENGR 008	ENGR 035
ENGR 020	ENGR 001B
ENGR 021	C S 021
	CSW 021
ENGR 022	ENGR 002
ENGR 027	C S 027
ENGR 035	ENGR 008
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ENGR 045	ENGR 004
ENGR 046	E TECH 037
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ENGR 052	E TECH 034
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ENGR 054A	E TECH 031
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ENGR 057	E TECH 046
ENGR 058A	ARCH 012
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	E TECH 012
ENGR 058B	ARCH 058B
	E TECH 023
ENGR 058C	ARCH 058C
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ENGR 058D	ARCH 058D
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ENGR 058E	ARCH 058E
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ENGR 063	E TECH 045
ENGR 064	E TECH 035
ENGR 065	E TECH 026
	E TECH 032
ENGR 066	E TECH 042
ESL 080	ENG 086D
ESL 082	ENG 083
ESL 083	ENG 086E
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ESL 086	ENG 086F
ESL 088	ENG 085

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		H EC	074
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		H EC	077C
FCS	074	CDEV	074
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FCS	075A	H EC	075A
FCS	075B	H EC	075B
FCS	076	CDEV	076
		H EC	015A
FCS	077	H EC	077I
FCS	078	H EC	078
FCS	080	H EC	080
FCS	081	H EC	080A
FCS	082	H EC	083A
FCS	083	CDEV	083
FCS	084	FASHION	033
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FCS	091	H S	091
FCS	098	H EC	098
FCS	099A	H EC	099A
FCS	099B	H EC	099B
FCS	099C	H EC	099C
FCS	099D	H EC	099D
FCS	099E	H EC	099E
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FIRE	003	FIRE	074
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FIRE	073	FIRE	024
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FIRE	075	FIRE	028
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FIRE	094	FIRE	090J
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GRART	007A	GRART	005A
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H EC	003	FCS	007
H EC	004	FCS	002
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H EC	006A	FASHION	030
		FCS	047A
H EC	006B	FASHION	031
		FCS	047B
H EC	007	FCS	010
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H EC	008	FCS	011
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H EC	009	FCS	008
H EC	014	FCS	003
H EC	015	FCS	015
H EC	015A	CDEV	076
		FCS	076

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HEC 019	FCS 019 H S 019
HEC 020A	FCS 014 ID 014
HEC 020B	FCS 013 ID 013
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HEC 022	FCS 022 PSYCH 022
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HEC 024	CDEV 033 FCS 033
HEC 026	CDEV 036 FCS 036
HEC 027	CDEV 028 FCS 028
HEC 028	CDEV 026 FCS 026 SOCIO 040
HEC 031	CDEV 025 FCS 025
HEC 033	FCS 005
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HEC 035B	FASHION 008 FCS 043
HEC 036	FCS 023 PSYCH 036 SOCIO 036
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HEC 038B	CDEV 030 FCS 030
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HEC 099C	FCS 099C
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HEC 099E	FCS 099E
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HED 075	HED 015
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H S 011K	H S 009 H S 080T
H S 019	FCS 019 H EC 019
H S 061	H S 082
H S 080T	H S 009 H S 011K
H S 082	H S 061
H S 091	FCS 091
HIST 009	POLSC 009
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HORT 002	O H 021A
HORT 003	O H 021B
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HORT 005	O H 014
HORT 006	O H 032
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HORT 015	O H 015
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HORT 021	O H 037

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HORT 032	O H 033
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HORT 081	O H 081
HORT 082	O H 083
HORT 083	O H 084
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HUM 014B	RELGN 014B
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ID 006	FASHION 006 FCS 042 H EC 005
ID 008	FCS 012 H EC 017
ID 010	FCS 011 H EC 008
ID 013	FCS 013 H EC 020B
ID 014	FCS 014 H EC 020A
ID 018	FASHION 018
ID 019	FASHION 019
ID 021	FASHION 021
ID 056	FASHION 056 FCS 052 H EC 048
INDUS 032	BUS 032 INDUS 039
INDUS 039	BUS 032 INDUS 032
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JOURN 002	MCOM 011
JOURN 006	JOURN 069V MCOM 006 MCOM 069V
JOURN 008	MCOM 004
JOURN 009	MCOM 007
JOURN 050H	MCOM 050H
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LD 078H	LS 077
LS 072	SP ED 076D
LS 073	LD 078F
LS 077	LD 078H
LS 078	LD 078
LS 090A	LS 092A
	SP ED 085A
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LS 092B	SP ED 084B
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MATH 076	MATH 072
MATH 077A	BUS 082A
MATH 077B	BUS 082B
MATH 078	MATH 088
MATH 078L	MATH 088L
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MATH 082	MATH 092G
	MATH 092S
MATH 088	MATH 078
MATH 088L	MATH 078L
MATH 090	MATH 080
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	MATH 092S
MATH 092S	MATH 082
	MATH 092G
MCOM 001	JOURN 001
MCOM 004	JOURN 008
MCOM 006	JOURN 006
	JOURN 069V
	MCOM 069V
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	MCOM 012C
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MCOM 053	ENG 053
	JOURN 053
MCOM 053	ENG 053
	JOURN 053

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MECH 030B	HVACR 070B
MECH 030C	HVACR 070C
MECH 031A	HVACR 071A
MECH 031B	HVACR 071B
MECH 031C	HVACR 071C
MECH 031D	HVACR 071D
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MECH 032B	HVACR 072B
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MICRO 003	BIOL 023
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	MUSIC 051A
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	MUSIC 053A
	MUSIC 053C
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	MUSIC 057A
	MUSIC 057B
	MUSIC 057D
MUSIC 057D	MUSIC 057
	MUSIC 057A
	MUSIC 057B
	MUSIC 057C

COURSE EQUIVALENCE

MUSIC 058	MUSIC 058A	MUSIC 058B	MUSIC 058C	MUSIC 058D	NURS 005	NURSADN 006	P E 009H	PEACTIV 009E
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					NURS 007	NURSADN 008		PEACTIV 009H
					NURS 008	NURSADN 004		PEACTIV 009I
MUSIC 058A	MUSIC 058	MUSIC 058B	MUSIC 058C	MUSIC 058D	NURS 009	NURSADN 009	P E 009I	PEACTIV 010A
					NURS 030	NURS 001	P E 010A	PEACTIV 010B
						NURSADN 001	P E 010B	PEACTIV 010C
							P E 010C	PEACTIV 010C
MUSIC 058B	MUSIC 058	MUSIC 058A	MUSIC 058C	MUSIC 058D	NURS 031	NURS 002	P E 014A	PEACTIV 014A
						NURSADN 002	P E 014B	PEACTIV 014B
					NURS 032	H S 003	P E 014C	PEACTIV 014C
						NURS 003	P E 014C	PEACTIV 014C
MUSIC 058C	MUSIC 058	MUSIC 058A	MUSIC 058B	MUSIC 058D	NURSADN 001	NURS 001	P E 015	PEACTIV 015
						NURS 030	P E 016A	DANCE 008B
					NURSADN 002	NURS 002	P E 016B	DANCE 008C
						NURS 031	P E 016C	DANCE 008D
MUSIC 058D	MUSIC 058	MUSIC 058A	MUSIC 058B	MUSIC 058C	NURSADN 004	NURS 008	P E 021	P E 021A
					NURSADN 005	NURS 006		PEACTIV 021
					NURSADN 006	NURS 005	P E 021A	PEACTIV 021
					NURSADN 007	NURS 004		PEACTIV 021
MUSIC 063	MUSIC 063A	MUSIC 063B	MUSIC 063C	MUSIC 063D	NURSADN 008	NURS 007	P E 021A	PEACTIV 021
					NURSADN 009	NURS 009		PEACTIV 021
					O H 012	HORT 001		PEACTIV 021
					O H 013	HORT 004	P E 021B	PEACTIV 021
MUSIC 063A	MUSIC 063	MUSIC 063B	MUSIC 063C	MUSIC 063D	O H 014	HORT 005	P E 021C	PEACTIV 021
					O H 015	HORT 015		PEACTIV 021
					O H 021A	HORT 002	P E 022	PEACTIV 022
					O H 021B	HORT 003		PEACTIV 022
MUSIC 063B	MUSIC 063	MUSIC 063A	MUSIC 063C	MUSIC 063D	O H 023	HORT 023	P E 022A	PEACTIV 022
					O H 030	HORT 010		PEACTIV 022
					O H 031	HORT 031	P E 024	PEACTIV 024
					O H 032	HORT 006		PEACTIV 024
MUSIC 063C	MUSIC 063	MUSIC 063A	MUSIC 063B	MUSIC 063D	O H 033	HORT 032		PEACTIV 024A
					O H 034	HORT 012		PEACTIV 024B
					O H 035	HORT 020		PEACTIV 024C
					O H 037	HORT 021	P E 024A	PEACTIV 024D
MUSIC 063D	MUSIC 063	MUSIC 063A	MUSIC 063B	MUSIC 063C	O H 040	HORT 024		PEACTIV 024
					O H 046	HORT 022		PEACTIV 024A
					O H 060	HORT 070		PEACTIV 024B
					O H 069V	HORT 069V		PEACTIV 024C
MUSIC 064	MUSIC 064A	MUSIC 064B	MUSIC 064C	MUSIC 064D	O H 081	HORT 081	P E 025	PEACTIV 024D
					O H 083	HORT 082		PEACTIV 024
					O H 084	HORT 083		PEACTIV 024A
					O H 094	HORT 071		PEACTIV 024A
MUSIC 064A	MUSIC 064	MUSIC 064B	MUSIC 064C	MUSIC 064D	P E 001A	PEACTIV 001		PEACTIV 024B
						PEACTIV 001A		PEACTIV 024C
					P E 001B	PEACTIV 001B		PEACTIV 024D
					P E 001D	PEACTIV 001D	P E 025A	PEACTIV 025
MUSIC 064B	MUSIC 064	MUSIC 064A	MUSIC 064C	MUSIC 064D	P E 001E	PEACTIV 001E		PEACTIV 025A
					P E 001F	PEACTIV 001F		PEACTIV 025A
					P E 001G	PEACTIV 001G		PEACTIV 025B
						PEACTIV 002A		PEACTIV 025C
MUSIC 064C	MUSIC 064	MUSIC 064A	MUSIC 064B	MUSIC 064D	P E 001H	PEACTIV 001H	P E 026	PEACTIV 025D
						PEACTIV 002B		PEACTIV 025
					P E 001I	PEACTIV 001I		PEACTIV 025A
						PEACTIV 002C		PEACTIV 025A
MUSIC 064D	MUSIC 064	MUSIC 064A	MUSIC 064B	MUSIC 064C	P E 006	ATH 042	P E 026A	PEACTIV 025B
						PEACTIV 006		PEACTIV 025C
					P E 009A	PEACTIV 009A		PEACTIV 025D
						PEACTIV 012A	P E 027	PEACTIV 026
MUSIC 075	MUSIC 080				P E 009B	PEACTIV 009B		PEACTIV 026
MUSIC 080	MUSIC 075					PEACTIV 012B	P E 027	PEACTIV 027
NURS 001	NURS 030	NURSADN 001			P E 009C	PEACTIV 009C	P E 027B	PEACTIV 027
NURS 002	NURS 031	NURSADN 002				PEACTIV 012C		PEACTIV 027
NURS 003	H S 003	NURS 032			P E 009D	PEACTIV 007A	P E 028	PEACTIV 027
NURS 004	NURSADN 007					PEACTIV 009D		PEACTIV 027
					P E 009E	PEACTIV 007B	P E 028G	PEACTIV 028
							ATH 047	

	P E 028 PEACTIV 028
P E 029	ATH 046 P E 029A PEACTIV 029
P E 029A	ATH 046 P E 029 PEACTIV 029
P E 031A	PEACTIV 031A
P E 031B	PEACTIV 031B
P E 031C	PEACTIV 031C
P E 032	P E 032A P E 032B PEACTIV 032 PEACTIV 032A PEACTIV 032B
P E 032A	P E 032 P E 032B PEACTIV 032 PEACTIV 032A PEACTIV 032B
P E 032B	P E 032 P E 032A PEACTIV 032 PEACTIV 032A PEACTIV 032B
P E 032C	PEACTIV 032C
P E 034	P E 034A PEACTIV 034 PEACTIV 034A
P E 034A	P E 034 PEACTIV 034 PEACTIV 034A
P E 034C	PEACTIV 034C
P E 039E	PEACTIV 039E
P E 039F	PEACTIV 039F
P E 040	PETHEORY040
P E 042J	PETHEORY042J
P E 042K	PETHEORY042K
P E 042L	PETHEORY042L
P E 042M	PETHEORY042M
P E 042N	PETHEORY042N
P E 042O	PETHEORY042O
P E 042P	PETHEORY042P
P E 042Q	PETHEORY042Q
P E 042R	PETHEORY042R
P E 042T	PETHEORY042T
P E 042U	PETHEORY042U
P E 042V	PETHEORY042V
P E 043	PETHEORY043
P E 045	PETHEORY045 PETHEORY050H
P E 046	PETHEORY046
P E 048	PETHEORY048
P E 049	PETHEORY049
P E 050	PETHEORY050 PETHEORY052
P E 051	PETHEORY051
P E 101	PEACTIV 101
P E 112	PEACTIV 112
P T 001	P T 080 VOC NUR 001
P T 002	P T 081 VOC NUR 002
P T 080	P T 001 VOC NUR 001
P T 080	P T 001 VOC NUR 001

P T 081	P T 002 VOC NUR 002
P T 081	P T 002 VOC NUR 002
P T 101	VOC NUR 101
P T 102	VOC NUR 102
PEACTIV 001	P E 001A PEACTIV 001A
PEACTIV 001A	P E 001A PEACTIV 001
PEACTIV 001B	P E 001B
PEACTIV 001D	P E 001D
PEACTIV 001E	P E 001E
PEACTIV 001F	P E 001F
PEACTIV 001G	P E 001G PEACTIV 002A
PEACTIV 001H	P E 001H PEACTIV 002B
PEACTIV 001I	P E 001I PEACTIV 002C
PEACTIV 002A	P E 001G PEACTIV 001G
PEACTIV 002B	P E 001H PEACTIV 001H
PEACTIV 002C	P E 001I PEACTIV 001I
PEACTIV 006	ATH 042 P E 006
PEACTIV 007A	P E 009D PEACTIV 009D
PEACTIV 007B	P E 009E PEACTIV 009E
PEACTIV 009A	P E 009A PEACTIV 012A
PEACTIV 009B	P E 009B PEACTIV 012B
PEACTIV 009C	P E 009C PEACTIV 012C
PEACTIV 009D	P E 009D PEACTIV 007A
PEACTIV 009E	P E 009E PEACTIV 007B
PEACTIV 009H	ATH 001 P E 009H
PEACTIV 009I	P E 009I
PEACTIV 010A	P E 010A
PEACTIV 010B	P E 010B
PEACTIV 010C	P E 010C
PEACTIV 012A	P E 009A PEACTIV 009A
PEACTIV 012B	P E 009B PEACTIV 009B
PEACTIV 012C	P E 009C PEACTIV 009C
PEACTIV 014A	P E 014A
PEACTIV 014B	P E 014B
PEACTIV 014C	P E 014C
PEACTIV 015	P E 015
PEACTIV 021	P E 021 P E 021A
PEACTIV 022	P E 022 P E 022A
PEACTIV 024	P E 024 P E 024A PEACTIV 024A PEACTIV 024B PEACTIV 024C PEACTIV 024D

PEACTIV 024A	P E 024 P E 024A PEACTIV 024 PEACTIV 024B PEACTIV 024C PEACTIV 024D
PEACTIV 024B	P E 024 P E 024A PEACTIV 024 PEACTIV 024A PEACTIV 024C PEACTIV 024D
PEACTIV 024C	P E 024 P E 024A PEACTIV 024 PEACTIV 024A PEACTIV 024B PEACTIV 024D
PEACTIV 024D	P E 024 P E 024A PEACTIV 024 PEACTIV 024A PEACTIV 024B PEACTIV 024C
PEACTIV 025	P E 025 P E 025A PEACTIV 025A PEACTIV 025B PEACTIV 025C PEACTIV 025D
PEACTIV 025A	P E 025 P E 025A PEACTIV 025 PEACTIV 025B PEACTIV 025C PEACTIV 025D
PEACTIV 025B	P E 025 P E 025A PEACTIV 025 PEACTIV 025A PEACTIV 025C PEACTIV 025D
PEACTIV 025C	P E 025 P E 025A PEACTIV 025 PEACTIV 025A PEACTIV 025B PEACTIV 025D
PEACTIV 025D	P E 025 P E 025A PEACTIV 025 PEACTIV 025A PEACTIV 025B PEACTIV 025D
PEACTIV 026	ATH 044 P E 026 P E 026A
PEACTIV 027	ATH 045 P E 027 P E 027B
PEACTIV 028	ATH 047 P E 028 P E 028G
PEACTIV 029	ATH 046 P E 029 P E 029A
PEACTIV 031A	P E 031A
PEACTIV 031B	P E 031B
PEACTIV 031C	P E 031C
PEACTIV 032	P E 032

COURSE EQUIVALENCE

	P E 032A
	P E 032B
	PEACTIV 032A
	PEACTIV 032B
PEACTIV 032A	P E 032
	P E 032A
	P E 032B
	PEACTIV 032
	PEACTIV 032B
PEACTIV 032B	P E 032
	P E 032A
	P E 032B
	PEACTIV 032
	PEACTIV 032A
PEACTIV 032C	P E 032C
PEACTIV 034	P E 034
	P E 034A
	PEACTIV 034A
PEACTIV 034A	P E 034
	P E 034A
	PEACTIV 034
PEACTIV 034C	P E 034C
PEACTIV 039E	P E 039E
PEACTIV 039F	P E 039F
PEACTIV 101	P E 101
PEACTIV 112	P E 112
PETHEORY040	P E 040
PETHEORY042J	P E 042J
PETHEORY042K	P E 042K
PETHEORY042L	P E 042L
PETHEORY042M	P E 042M
PETHEORY042N	P E 042N
PETHEORY042O	P E 042O
PETHEORY042P	P E 042P
PETHEORY042Q	P E 042Q
PETHEORY042R	P E 042R
PETHEORY042T	P E 042T
PETHEORY042U	P E 042U
PETHEORY042V	P E 042V
PETHEORY043	P E 043
PETHEORY045	P E 045
	PETHEORY050H
PETHEORY046	P E 046
PETHEORY048	P E 048
PETHEORY049	P E 049
PETHEORY050	P E 050
	PETHEORY052
PETHEORY050H	P E 045
	PETHEORY045
PETHEORY051	P E 051
PETHEORY052	P E 050
	PETHEORY050
PHYSI 001	BIOL 032
POLSC 009	HIST 009
POLSC 015R	HUM 015R
PSYCH 008	PSYCH 008A
PSYCH 008A	PSYCH 008
PSYCH 012	MATH 012
PSYCH 021	CDEV 021
	FCS 021

	H EC 021
PSYCH 022	FCS 022
	H EC 022
PSYCH 030	BIOL 030
PSYCH 036	FCS 023
	H EC 036
	SOCIO 036
PSYCH 045A	SOCIO 045A
PSYCH 045B	SOCIO 045B
READING 094	READING 094A
READING 094A	READING 094
RELGN 014A	HUM 014A
RELGN 014B	HUM 014B
RTV 001	BROAD 001
RTV 021	BROAD 009
RTV 075	RTV 080
RTV 080	RTV 075
SL 001	SL 022
	SP ED 022
SL 002	SL 023
	SP ED 023
SL 003	SL 024
	SP ED 024
SL 022	SL 001
	SP ED 022
SL 023	SL 002
	SP ED 023
SL 024	SL 003
	SP ED 024
SL 071	SL 078A
SL 072	SL 078B
SL 073	SL 078C
SL 078A	SL 071
SL 078B	SL 072
SL 078C	SL 073
SM ENG 030C	AGEGR 030C
SM ENG 065	AGEGR 065
SM ENG 066	AGEGR 066
SOCIO 020	SOCSC 030
SOCIO 036	FCS 023
	H EC 036
	PSYCH 036
SOCIO 040	CDEV 026
	FCS 026
	H EC 028
SOCIO 045A	PSYCH 045A
SOCIO 045B	PSYCH 045B
SOCSC 030	SOCIO 020
SP ED 002	COMM 002
	COMM DIS001A
	COMM DIS002
SP ED 022	SL 001
	SL 022
SP ED 023	SL 002
	SL 023
SP ED 024	SL 003
	SL 024
SP ED 076D	LS 072
SP ED 084A	LS 092A

SP ED 084B	LS 092B
SP ED 085A	BIM 085A
	LS 090A
	LS 092A
SP ED 085A	BIM 085A
	LS 090A
	LS 092A
SP ED 085B	BIM 085B
	LS 090B
SP ED 085B	BIM 085B
	LS 090B
SP ED 085C	LS 090C
SP ED 131	ALTW 131
SP ED 132	ALTW 132
SP ED 133	ALTW 133
SP ED 159	ALTW 134
SPAN 001A	SPAN 003A
SPAN 002A	SPAN 004A
SPAN 003A	SPAN 001A
SPAN 004A	SPAN 002A
SPCH 001A	COM ST 001A
	COMM ST 001A
SPCH 001B	COM ST 001B
	COMM ST 001B
SPCH 003	COM ST 003
	COMM ST 003
SPCH 004	COM ST 004
	COMM ST 004
SPCH 005	COM ST 005
	COMM ST 005
SPCH 006	BUS 006
SPCH 007	COM ST 007
	COMM ST 007
SPCH 008	COM ST 008
	COMM ST 008
SPCH 009	COM ST 009
	COMM ST 009
SPCH 015	COM ST 015
	COMM ST 015
SPCH 050H	COM ST 050H
	COMM ST 050H
VOC NUR 001	P T 001
	P T 080
VOC NUR 002	P T 002
	P T 081
VOC NUR 101	P T 101
VOC NUR 102	P T 102
WELDING 010	MECH 010
WELDING 088A	MECH 088A
WELDING 088B	MECH 088B
WELDING 088C	MECH 088C
WELDING 088D	MECH 088D
WELDING 089A	MECH 089A
WELDING 089B	MECH 089B
WELDING 089C	MECH 089C
ZOOL 001	BIOL 002

COLLEGE CREDIT FOR HIGH SCHOOL COURSES

Students who have completed articulated courses in high school may receive college credit at San Joaquin Delta College. The College is committed to comprehensive articulation of instructional programs with both secondary and post secondary educational institutions, often referred to as 2+2+2 articulation. The 2+2 articulation links the high school or Regional Occupational Program (ROP) with San Joaquin Delta College programs. These articulated programs lead to an Associate Degree or Certificate of Achievement. The 2+2+2 articulation adds a four-year college or university program that leads to a Baccalaureate Degree where appropriate.

The articulation process is a system designed to help students advance from one course, program, or educational level to the next without unnecessary repetition of essentially similar courses for which credit has already been received.

A listing of the currently articulated courses may be found on the Delta College web site at:
http://www.deltacollege.edu/dept/articulation/Articulation_List_001.htm
http://www.deltacollege.edu/dept/articulation/Articulation_List_001.htm

If you have completed any of the articulated courses, you may wish to obtain college credit by completing ALL of the following steps.

- Step 1.** Successfully complete the course according to the articulation agreement between the high school and San Joaquin Delta College
- Step 2.** File an Application for Admission to San Joaquin Delta College
- Step 3.** Request credit within two years of course completion or no later than two years after high school graduation
- Step 4.** File an Application for College Credit AND submit official/sealed transcripts from your high school/secondary school to the Office of Admissions and Records

For further information contact the Office of Admissions and Records.

AGRICULTURE, SCIENCE, AND MATHEMATICS DIVISION

Division Dean: Laura Ochoa-Sanchez, M.S.W.
Science and Mathematics 338
(209) 954-5354

Farm Lab Manager: James Burkhard
(209) 239-5814

MESA Director: Cassandra Hernandez
Science and Mathematics 163
(209) 954-5318

Faculty: Thomas Adamson, Ph.D.; Amir Assadi-Rad, Ph.D.; Christopher Barker, M.A.; Kindra Beale, M.A.; Scott Bender, M.A.; Savita Bhagi, M.A.; Daniel Birmingham, Ph.D.; Darin Brown, Ph.D.; Jason Broyles, M.A.; Todd C. Burnett, M.S.; Nick Bykov, Ph.D.; Elizabeth Day, Ph.D.; Barbara Demmons, M.S.; David L. Dodson, M.S.; Patricia Donovan, M.A.; Gina Frost, Ph.D.; Alla Gamarnick, Ph.D.; Patricia Hammer, M.A.; Nena Hewette, M.S.; Helene Humphrey, M.S.Ed.; Stephen Itaya, Ph.D.; Rajanpreet Kaur, M.S.; Christopher Kim, Ph.D.; Christopher Kirschenman, M.S.; Robert Knudsen, Ph.D.; Jacek Kostyrko, M.S.; Khanh-Tuoc Le, Ph.D.; Lincoln Lee, Ph.D.; Suzanne Lindborg, Ph.D.; Robin Lyons, Ph.D.; Van Ma, M.S.; Master Anthony Maumalanga, M.S.; Theresa McRae, Ph.D.; Kevin Olwell, Ph.D.; Lisa B. Perez, B.S.; Philip Reedy, Ph.D.; Alicia Ricardez, Ph.D.; Jacquelyn Schwegel, M.S.; Gurmukh Singh, M.S.; Steven Telleen, Ph.D.; Jennifer Terpstra, M.S.; Margaret Thomas, M.A.; Rebecca Tripp, M.A.; Paul Ustach, Ph.D.; Christopher Williams, M.A.; Li Zhang, Ph.D.

Subjects

- Agricultural Business (AGBUS)
- Animal Husbandry Sciences (AH SC)
- Astronomy (ASTRO)
- Biology (BIO)
- Chemistry (CHEM)
- Computer Science (CS)
- Computer Science Networking (CSN)
- Computer Science Programming (CSP)
- Computer Science Web Design (CSW)
- Geography (GEOG)
- Geology (GEOL)
- Horticulture (HORT)
- Mathematics (MATH)
- Natural Resources (N R)
- Physical Science (PHSCI)
- Physics (PHYSC)
- Plant Science (PLANT)

Degree Programs

- Agriculture Business, Associate in Science
- Agriculture Business, Associate in Science for Transfer

- Computer Information Systems, Associate in Science
- Computer Science, Associate in Science
- Computer Science, Associate in Science for Transfer
- Geology, Associate in Science for Transfer
- Horticulture, Associate in Science
- Interdisciplinary Studies - Mathematics and Science Option, Associate in Science
- Mathematics, Associate in Science
- Mathematics, Associate in Science for Transfer
- Physics, Associate in Science for Transfer

Certificate Programs

- Agriculture Business
- Agriculture Business - Animal Science
- Agriculture Business - Plant Science
- Computer Networking - Competence
- Computer Networking - Essentials
- Computer Networking Software
- Computer Operations
- Computer Programming
- Computer Programming - Competence
- Computer Programming - Essentials
- Computer Science
- Computer Support
- Computer Support Technician
- Computer Web Developer
- Computer Web Developer Technician
- Horticulture - Landscape Basics
- Horticulture - Landscape Management
- Horticulture - Nursery Management
- Horticulture - Turf Grass

Agriculture, Science, and Mathematics Division Degree Programs

Agriculture Business, Associate in Science

Upon successful completion of the Agriculture Business A.S. Degree, the student demonstrates the skills, knowledge, and training for the following positions: Agricultural Accounting Assistant, Agricultural Administrative Assistant, Agricultural Inventory/Warehouse Technician, Agricultural Sales and Service Technician, Crop Insurance Agent, Customer Service Representative, Farm Insurance Agent, Farm/Ranch Personnel Supervisor, Field Representative, Food Processing Plant Shift Supervisor, Grain Elevator Manager, International Sales and Trade Technician Quality Control Inspector, Public Relations Specialist, Sales Agent, Sales Representative and Wholesale Produce Agent; the ability to: design and implement a record keeping system; design and implement farm accounts; compare and contrast the basis for farm income tax computing; calculate the basic measures of depreciation; construct inventory analysis procedures; operate a microcomputer; develop and use

templates to make management decisions; evaluate a variety of software useful to agribusiness applications; identify and design a marketing strategy for a specific agricultural product; chart and interpret market information; analyze marketing reports; and make a sales presentation on a agricultural product; or fulfillment of both the lower division General Education requirements and the lower division Agriculture Business requirements for successful transfer to a university for a baccalaureate degree.

Program Learning Outcomes

1. Students should be proficient in basic computer applications in career specific contexts related to agri-business such as word processing, spread sheet, and internet.
2. Students should be able to listen actively and communicate clearly and coherently about agri-business concepts.
3. Students should be able to think critically and analytically to solve agri-business problems.
4. Students should be able to use appropriate technology to learn, live, and work in an agri-business setting.
5. Program completers should demonstrate effective habits of time management, accountability and dependability.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 42 units

AGBUS 010	Agricultural Accounting	3
AGBUS 012	Agricultural Economics	3
AGBUS 015	Agribusiness Computer Applications	3
AGBUS 046	Agricultural Sales and Communication	3
AH SC 010	Principles of Animal Science	3
AH SC 010L	Principles of Animal Science Laboratory	1
BUS 001A	Principles of Accounting	5
BUS 018A	Business Law	3
BUS 020	Introduction to Business	3
ECON 001A	Principles of Macroeconomics:	3
MATH 012	Introduction to Probability and Statistics	4

PLANT 010	Principles of Plant Science	3
PLANT 010L	Principles of Plant Science Laboratory	1
PLANT 014	Soil Science	4

Minimum Major Units Required: 42

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Agriculture Business, Associate in Science for Transfer

The Agriculture Business Associate in Science for Transfer degree provides the student with an introductory foundation in agribusiness and prepares a student for transfer to a CSU campus in Agriculture Business, Agriculture Studies, AgriBusiness, Ag Business and Food Industry Management. The Agriculture Business Associate in Science for Transfer program prepares students for a broad range of opportunities in agribusiness. The completion of this degree provides preparation for upper division course work for students seeking to transfer and pursue a baccalaureate degree in Agriculture Business from a California State University (CSU). The program offers students a foundation in agribusiness operations and management.

Program Learning Outcomes

1. Students should be proficient in basic computer applications in career specific contexts related to agri-business such as word processing, spread sheet, and internet.
2. Students should be able to listen actively and communicate clearly and coherently about agri-business concepts.
3. Students should be able to think critically and analytically to solve agri-business problems.
4. Students should be able to use appropriate technology to learn, live, and work in an agri-business setting.
5. Program completers should demonstrate effective habits of time management, accountability and dependability.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 10 units

AGBUS 012	Agricultural Economics	3
ECON 001A	Principles of Macroeconomics	3
MATH 012	Introduction to Probability and Statistics	4

Major Requirements - Restricted Electives

Area A - Complete 4 units selected from:

CHEM 001A	General Chemistry	5
CHEM 003A	Introduction to Chemistry	4
PLANT 014	Soil Science	4

Area B - Complete 9 units selected from:

AGBUS 005	Introduction to Agriculture	3
AGBUS 010	Agricultural Accounting	3
AGBUS 015	Agribusiness Computer Applications	3
AH SC 010	Principles of Animal Science	3
PLANT 010	Principles of Plant Science	3

Minimum Major Units Required: 23

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Computer Information Systems, Associate in Science

Upon successful completion of the Computer Information Systems Associate in Science degree, the student is prepared for careers in web site development or computer network maintenance, or transfer to a four-year college or university. Skills and knowledge include the ability to identify and correct computer security problems and network components, and logically solve computer-related software issues. Specific courses in each specialization further refine the knowledge base in each discipline. Students may choose from a variety of approved General Education courses to complete the degree.

Program Learning Outcomes

1. Demonstrate the skills to use application software such as word processing, spreadsheet processing programs, and database management system.
2. Demonstrate the skills to plan a web site that offers basic HTML features, develop the web site and then publish it to the web.
3. Demonstrate understanding of basic Operating System concepts and ability to utilize that knowledge to setup the Operating System of a computer system.
4. Demonstrate understanding of basic networking concepts and ability to utilize that knowledge to configure a basic networking device and solve basic network security problems.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)

- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 12 units

CS 011	Fundamentals of Computer Science	3
CS 012	Introduction to Management Information Systems	3
CS 056	Networking Essentials	3
CSN 040	Information Security Fundamentals	3

Major Requirements - Restricted Electives

Complete 12 units from one of the areas below:

Area A - Web Emphasis

CS 019	Introduction to E-Commerce	3
CSW 021	JavaScript Programming	3
CSW 023	HTML for Web Publishing	3
CSW 037	Web Page Development	3
or		
CSW 038	Web Animation with Flash	3
or		
CSW 039	Dreamweaver	3

Area B - Networking Emphasis

CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CSN 058A	Introduction to Desktop Operating Systems	3
or		
CSN 058B	Microsoft Windows Server	3
or		
CSN 058C	Implementing Microsoft Windows 2003 Network Infrastructure	3
or		
CSN 058D	Implementing Microsoft Windows 2003 Directory Services	3
CSN 060	Network Security	3

Complete an additional 12 units from Area A, Area B or the following:

CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3
CS 042	Introduction to Unix/Linux	3
CSN 058C	Implementing Windows 2003 Network Infrastructure	3
CSN 058D	Implementing Microsoft 2003 Directory Services	3

Minimum Major Units Required: 36

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Computer Science, Associate in Science

Upon successful completion of the Associate in Science in Computer Science program, the student is prepared for careers in programming, web site development, or computer network maintenance. Skills and knowledge include the ability to identify and correct computer security problems and network components, and logically solve computer-related software issues. Specific courses in each specialization further refine the knowledge base in each discipline.

Program Learning Outcomes

1. Demonstrate understanding of basic networking concepts and ability to utilize that knowledge to configure a basic networking device and solve basic network security problems.
2. Demonstrate understanding of basic Operating System concepts and ability to utilize that knowledge to setup the Operating System of a computer system.
3. Demonstrate the skills to use application software such as word processing, spreadsheet processing programs, and database management system.
4. Demonstrate the skills to plan, create, test, and debug computer programs using procedural programming or Object-Oriented Programming techniques.
5. Demonstrate the ability to identify and understand the basic terminology used in Computer Science and how computer hardware and software work together to produce desired results.
6. Demonstrate the skills and training for employment and/or transfer to a four-year college or university.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 9 units

CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3

Major Requirements - Restricted Electives

Complete 12 units from one of the Areas below:

Area A - Emphasis: Programming

CSP 025	Assembly Language Programming	3
CSP 026A	Java Programming	3
or		
CSP 028A	Visual Basic .NET Programming	3
or		
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3
Elective	3 units from courses listed under Electives Within the Major	3

Area B - Emphasis: Database

CS 012	Introduction to Management Information Systems	3
CSP 043A	Database Design and Implementation using Oracle	3
Elective	6 units from courses listed under Electives Within the Major	6

Area C - Emphasis: Game Design

CS 016	Introduction to Game Design	3
CSW 038	Web Animation with Flash	3
Elective	6 units from courses listed under Electives Within the Major	6

Electives Within the Major

CS 012	Introduction to Management Information Systems	3
CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CS 050H	Special Studies: Computer Science	1-4
CS 056	Networking Essentials	3
CSN 040	Information Security Fundamentals	3
CSN 058A	Introduction to Desktop Operating Systems	3
CSN 058B	Microsoft Windows Server	3
CSN 058C	Implementing Windows Network Infrastructure	3
CSN 058D	Implementing Windows Active Directory Services	3
CSN 060	Network Security	3
CSP 025	Assembly Language Programming	3
CSP 026A	Java Programming	3
CSP 026B	Data Structures with Java	3
CSP 028A	Visual Basic .NET Programming	3
CSP 029A	Pascal Programming	3
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3
CSP 043A	Database Design and Implementation using Oracle	3
CSW 021	JavaScript Programming	3
CSW 023	HTML for Web Publishing	3

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Computer Science, Associate in Science for Transfer

The Associate in Science in Computer Science for Transfer has been designed as a seamless pathway for

students who plan to attend a California State University (CSU) and major in Computer Science.

Upon completion of the program, graduates will be able to:

- Demonstrate the ability to understand the ethical, mathematical, and physical concepts that underlie computer science.
- Apply knowledge of computing and mathematics appropriate to the discipline.
- Demonstrate the ability to understand the different levels of abstraction that comprise computer science.
- Analyze a problem and craft an appropriate algorithmic solution.
- Create efficient, working computer programs that use fundamental programming constructs to solve real-life problems.
- Function effectively as a member of a team to accomplish common goals.
- Engage in continuous learning as well as research and assess new ideas and information to provide the capabilities for lifelong learning.

Program Learning Outcomes

1. Students will meet the requirements for transfer to a four-year degree program at a CSU in Computer Science.
2. Students will demonstrate skills, knowledge, and training for employment as a computer programmer.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 23 units

CS 055	Discrete Structures for Computer Science	3
CSP 025	Assembly Language Programming	3
MATH 001	Calculus I	5
MATH 002	Calculus II	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Major Requirements - Restricted Electives

Complete 6 units selected from:

CSP 026A	Java Programming	3
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and CSP 026B	Data Structures with Java	3
or CSP 031A	C++ Programming I	3
and CSP 031B	C++ Programming II	3

Minimum Major Units Required: 29

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Geology, Associate in Science for Transfer

Geology is the study of the Earth, its environments, and its history. It is an interdisciplinary science that combines geological observations and concepts with those of biology, chemistry, physics, and mathematics. Its goals are to study rocks, minerals, fossils, energy and water resources, and to understand geologic principles and processes that shape the Earth and its environments, and impact human society. The Associate in Science in Geology for Transfer degree is designed specifically for transfer in a similar major to the California State University System.

Program Learning Outcomes

1. Students who complete the program will be prepared to transfer to the CSU and major in Geology or a related science.
2. Students who complete the program will achieve basic scientific literacy in Geology and related disciplines.
3. Students who complete the program will be able to apply the scientific method to solve problems in Geology.
4. Students who complete the program will be able to integrate concepts from other disciplines (e.g., Mathematics, Chemistry) to solve problems in Geology.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Core Requirements

Complete 27 units

GEOL 001A	Physical Geology w/Lab	4
GEOL 001B	Historical Geology w/Lab	4

CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
MATH 001	Calculus I	5
MATH 002	Calculus II	4

Minimum Major Units Required: 27

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Horticulture, Associate in Science

Upon successful completion of the Associate in Science in Horticulture, the student demonstrates skills, knowledge, and training for employment in the horticulture field with public and private employers. The student demonstrates his or her ability to grow and maintain plants, maintain landscapes, and communicate effectively.

Program Learning Outcomes

1. Students that complete the Associate of Science Horticulture Degree will demonstrate time management, accountability and dependability skills within the Horticulture field.
2. Students that complete the Associate of Science Horticulture Degree will have basic plant identification knowledge.
3. Students that complete the Associate of Science Horticulture Degree will be able to look at and solve basic problems in the horticulture field.
4. Students that complete the Associate in Science Horticulture Degree will have the technical skills needed for the industry.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 30 units

HORT 001	Fundamentals of Horticulture	3
HORT 002	Plant Materials and Usage - Fall	3
HORT 003	Plant Materials and Usage - Spring	3
HORT 004	History of Garden Design	3
HORT 005	Introduction to Plant Pests and Diseases	3
HORT 010	Greenhouse Production	3
HORT 012	Plant Propagation/Production	3
HORT 020	Landscape Maintenance	3
HORT 023	Landscape Irrigation and Drainage	3
HORT 024	Principles of Landscape Design	3

Minimum Major Units Required: 30

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Interdisciplinary Studies - Mathematics and Science Option, Associate in Science

The Mathematics and Science option is designed for the student interested in the health sciences field or in developing a foundation in a Science, Technology, Engineering, or Mathematics (STEM) disciplines at the Associate Degree level. Mathematics courses encourage the understanding of basic mathematical concepts, quantitative reasoning and applications. Natural science courses emphasize experimental methodology, hypothesis testing, and the power of systematic questioning. The student will develop a comprehension of the basic concepts of the physical and biological sciences, and a understanding of science as a human endeavor, including the limitations as well as the power of scientific inquiry.

Program Learning Outcomes

1. Demonstrate scientific literacy by identifying and applying the major components of the scientific method of inquiry.
2. Analyze the similarities and differences between the ways knowledge is collected and applied in the disciplines studies.
3. Compare and contrast conflicting viewpoints from the perspective of two or more disciplines.
4. Integrate and utilize knowledge from multiple disciplines to solve problems.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern

*Completion of the San Joaquin Delta College Associate Degree General Education Pattern may be appropriate for the student who is:

1. planning to transfer to an out of state or independent 4-year college or university that accepts completion of the Associate Degree for transfer.
2. following NCAA guidelines.

General Education requirements vary widely from institution to institution. It is highly recommended that students see a counselor or consult the selected baccalaureate transfer campus catalog for appropriate GE course selection.

Major Requirements - Restricted Electives

Area A - Science - Complete a minimum of 4 units including one laboratory selected from:

AH SC 010	Principles of Animal Science	3
AH SC 010L	Principles of Animal Science Laboratory	1
ANTHR 001	Cultural Anthropology	3
ANTHR 002	Biological Anthropology	3
ANTHR 002L	Biological Anthropology Laboratory	1

ANTHR 010	Introduction to Archeology	3
ANTHR 010L	Beginning Field Archeology	1
ASTRO 001	Introductory Astronomy	3
ASTRO 001L	Astronomy Laboratory	1
BIOL 001	Core Biology	4
BIOL 002	General Zoology	5
BIOL 010	Survey of Biology	4
BIOL 011	Humans in the Biological World	4
BIOL 012	Natural History of California	3
BIOL 022	Introduction to Medical Microbiology	4
BIOL 023	General Microbiology	5
BIOL 030/PSYCH 030	Human Sexuality	3
BIOL 031	Human Anatomy	4
BIOL 032	Human Physiology	5
BIOL 033	Anatomy and Physiology	6
CHEM 001A	General Chemistry	5
CHEM 001B	General Chemistry	5
CHEM 003A	Introduction to Chemistry	4
CHEM 003B	Introduction to General, Organic and Biochemistry	4
CHEM 012A	Organic Chemistry	5
CHEM 012B	Organic Chemistry	5
GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3
GEOG 003	Geography of California	3
GEOG 010	World Regional Geography	3
GEOL 001A	Physical Geology with Laboratory	4
GEOL 001B	Historical Geology with Laboratory	4
GEOL 005	Earth Science	3
GEOL 005A	Earth Science with Laboratory	4
GEOL 005L	Earth Science Laboratory	1
GEOL 010	General Geology	3
GEOL 015	Environmental Geology	3
GEOL 016	Oceanography	3
GEOL 016A	Oceanography with Laboratory	4
PHSCI 001	Matter and Energy	3
PHYS 002A	General Physics	4
PHYS 002B	General Physics	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004B	Principles of Physics: Waves, Sound, and Thermodynamics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4
PHYS 010	Introduction to Physics	4
PLANT 010	Principles of Plant Science	3
PLANT 010L	Principles of Plant Science Laboratory	1
PLANT 014	Soil Science	4

Area B - Mathematics - Complete 3 units selected from:

MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4
MATH 010	Introduction to Contemporary Mathematics	3
MATH 012	Introduction to Probability and Statistics	4
MATH 013	Survey of Calculus	4

MATH 017A	Concepts and Structures of Mathematics	3
MATH 017B	Concepts and Structures of Mathematics	3
MATH 020	Finite Mathematics	3
MATH 038A	Precalculus I	4
MATH 038B	Precalculus II	4
MATH 039	Precalculus	5
PSYCH 002	Statistical Methods for Psychology and Social Science	3

Area C - Complete 11 units selected from the courses below of from courses in Area A or B above.

CS 011	Fundamentals of Computer Science	3
CS 012	Introduction to Management Information Systems	3
CS 055	Discrete Structures for Computer Science	3
CSP 026A	Java Programming	3
CSP 026B	Data Structures with Java	3
CSP 028A	Visual Basic .NET Programming	3
CSP 029A	Pascal Programming	3
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3
ENGR 002	Engineering Graphics	3
ENGR 004	Engineering Materials	4
ENGR 006	Engineering Circuit Analysis	4
ENGR 008	Statics	3

Minimum Area of Emphasis Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Mathematics, Associate in Science

The Associate in Science Degree in Mathematics provides a foundation for students preparing to transfer to a four-year program in many Science, Technology, Engineering, and Mathematics (STEM) fields. Coursework includes a minimum of three semesters of calculus and additional coursework in college-level mathematics and/or closely related fields. Students may choose these additional courses (from an approved list) to best fit their academic and career goals.

Program Learning Outcomes

1. As a result of earning an AS degree in mathematics, students will demonstrate appropriate proficiency with the language of mathematics both through their use of vocabulary and notation and through their ability to understand mathematics written and/or spoken by others.
2. As a result of earning an AS degree in mathematics, students will have the necessary foundation in integral and differential calculus to transfer to a 4-year institution and achieve a degree in a STEM-related field.
3. As a result of earning an AS degree in mathematics, students will be able to analyze a situation, choose mathematical constructs best suited to model the situation and propose an appropriate solution or conclusion.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 13 units

MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4

Major Requirements - Restricted Electives

Area A - Complete a minimum of 4 units selected from;

MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4

Area B - Complete a minimum of 3 units selected from;

MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4
MATH 012	Introduction to Probability and Statistics	4
MATH 020	Finite Mathematics	3

Minimum Major Units Required: 20

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Mathematics, Associate in Science for Transfer

The AS-T degree in Mathematics is designed specifically for the student preparing to transfer to a similar major at California State University (CSU) campuses. The study of mathematics improves the student's critical thinking and problem solving skills. A degree in mathematics opens doors to careers in many fields including engineering, medicine, actuarial science, research, computer science and education. Coursework includes a minimum of three semesters of calculus and additional courses in college-level mathematics and/or closely related fields.

Program Learning Outcomes

1. Students will demonstrate appropriate proficiency with the language of mathematics both through their use of vocabulary and notation and through their ability to understand mathematics written and/or spoken by others.
2. Students will have the necessary foundation in integral and differential calculus to transfer to a 4-year institution and achieve a degree in a STEM-related field.
3. Students will be able to analyze a situation, choose mathematical constructs best suited to model the situation and propose an appropriate solution or conclusion.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 13 units

MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4

Major Requirements - Restricted Electives

Area A - Complete 4 units selected from:

MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4

Area B - Complete 4 units selected from:

MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4
MATH 012	Introduction to Probability and Statistics	4
PHYS 004A	Principles of Physics: Mechanics	4

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Physics, Associate in Science for Transfer

This program is designed for students planning to transfer to a California State University (CSU) with a major in Physics.

Physics is a fundamental science and the laws of physics govern the behavior of the world around us. Courses in physics provide students with an opportunity to gain a variety of important skills which are essential for success in today's workforce. These include critical thinking and problem solving skills, verbal and written communication skills, as well as the ability to collaborate and work effectively and responsibly as a member of a team. All of this is achieved within the context of gaining a thorough understanding of the fundamental laws of physics.

Program Learning Outcomes

1. To prepare students for transfer to the CSU system as physics majors.
2. To develop critical thinking skills and problem solving techniques for problems in physics.
3. To learn how to work within a small laboratory group, to record data and report their findings.
4. To learn how to collaborate and engage in teamwork with a view to achieving a common goal.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 25 units

MATH 001	Calculus I	5
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MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004B	Principles of Physics: Waves, Sound, and Thermodynamics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Minimum Major Units Required: 25

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Agriculture, Science, and Mathematics Division Certificate Programs

Agriculture Business, Certificate of Achievement

Upon successful completion of the Agriculture Business certificate, the student demonstrates the skills, knowledge, and training for employment in the following Agribusiness positions: Agricultural Accounting Assistant, Agriculture Administrative Assistant, Agricultural Inventory/Warehouse Technician, Agricultural Sales and Service Technician, Crop Insurance Agent, Customer Service Representative, Farm Insurance Agent, Farm/Ranch Personnel Supervisor, Feed-lot Supervisor, Field Representative, Food Processing Plant Shift Supervisor, Grain Elevator Manager, International Sales and Trade Technician, Quality Control Inspector, Public Relations Specialist, Sales Agent, Sales Representative, and Wholesale Produce Agent, demonstrates his or her ability to design and implement a record keeping system, design and implement a set of farm accounts, explain the basis for farm income tax computing, calculate measure of earnings applicable to farm records, and calculate the basic measure of depreciation, constructs inventory analysis procedures, operates a microcomputer, develops and uses templates to make management decisions, and evaluates a variety of software useful to agribusiness applications, practice skills to identify and design a marketing strategy for a specific agricultural product, chart and interpret market information, analyze marketing reports, and make a sales presentation on an agricultural product, and prepare the student for a successful transfer to a university for a baccalaureate degree. The certificate program closely follows the design developed by the Central Valley Consortium Agricultural Education Tech Prep.

Program Learning Outcomes

1. Students should be proficient in basic computer applications in career specific contexts related to agri-business such as word processing, spread sheet, and internet.
2. Students should be able to listen actively and communicate clearly and coherently about agri-business concepts.
3. Students should be able to think critically and analytically to solve agri-business problems.

4. Students should be able to use appropriate technology to learn, live and work in an agribusiness setting.
5. Program completers should demonstrate effective habits of time management, accountability and dependability.

Core Requirements

Complete 36 units

AGBUS 010	Agricultural Accounting	3
AGBUS 012	Agricultural Economics	3
AGBUS 015	Agribusiness Computer Applications	3
AGBUS 046	Agricultural Sales and Communications	3
AH SC 010	Principles of Animal Science	3
AH SC 010L	Principles of Animal Science Laboratory	1
COM ST 001A	Public Speaking	3
CS 011	Fundamentals of Computer Science	3
ECON 001A	Principles of Macroeconomics	3
ENG 001A	Reading and Composition	3
MATH 090	Beginning Algebra	4
PLANT 010	Principles of Plant Science	3
PLANT 010L	Principles of Plant Science Laboratory	1

Restricted Electives

Area A - Complete a minimum of 3 units selected from:

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
POLSC 001	American Government and Institutions	3

Area B - Complete 3 units selected from:

Associate Degree General Education Pattern, Area 3, Humanities

Area C - Complete 19 units selected from:

BIOL 001	Core Biology	4
BUS 001A	Principles of Accounting	5
CHEM 001A	General Chemistry	5
or		
CHEM 003A	Introduction to Chemistry	4
MATH 012	Introduction to Probability and Statistics	4
MATH 038A	Precalculus I	4

Minimum Units Required: 61

Complete all courses with a grade of "C" or better.

Agriculture Business - Animal Science, Certificate of Achievement

Upon successful completion of the Animal Science Certificate, the student demonstrates skill, knowledge and training in preparing for employment in animal production and science and certain careers require education and experience beyond the A.A. Degree. Animal science careers for an advanced degree include Production, Science, Agribusiness, Food Industry, and Equine-Related Fields include Dairy Herdsman, Feed-lot Herdsman, Poultry Operations, Meat Grading and Marketing, Feeding and Manufacturing, Animal Boarding, Animal Breeding, Animal Training, Association Representatives, Livestock Publications, Meat Inspections.

Program Learning Outcomes

1. Program completers should demonstrate effective habits of time management.
2. Students should be able to use technology to learn, live and work in an animal science setting.
3. Students should be able to think critically and analytically to solve animal science problems.
4. Students should be able to listen actively and communicate clearly and coherently about animal science concepts.
5. Student should be proficient in basic computer applications, in career specific contexts related to animal science.

Core Requirements

Complete 23 units

AGBUS 010	Agricultural Accounting	3
AGBUS 012	Agricultural Economics	3
AGBUS 015	Agribusiness Computer Applications	3
AGBUS 046	Agricultural Sales and Communications	3
AGBUS 096V	Work Experience: Agricultural Business	1-8
AH SC 010	Principles of Animal Science	3
AH SC 010L	Principles of Animal Science Laboratory	1
AH SC 011A	Introduction to Livestock Evaluation	2
AH SC 025A	Introduction to Livestock Presentation	2
AH SC 025B	Beginning Livestock Presentation	2

Minimum Units Required: 23

Complete all courses with a grade of "C" or better.

Agriculture Business - Plant Science, Certificate of Achievement

Upon successful completion of the Agriculture Business/Plant Science certificate, the student demonstrates the skills, knowledge, and training for employment in the following positions: Crop Inspector; Cultivation Supervisor; Farm Supervisor; Crew Supervisor; Fertilizer and Chemical Applicator; Field Buyer; Field Representative; Field Soil Collector; Fruit Inspector; Nursery Technician; Greenhouse Technician; Produce Inspector; Laboratory Technician; Pest Control

Operator; Plant Inspector; Plant Propagator; Quality Control Technician; Seed Technician; Seed and Supply Store Salesperson; Soil Conservation Technician; Soil Fumigator; Surveyor; and Tissue Culture Technician; demonstrates his/her ability to classify and identify plants using a botanical key; the principles of plant inheritance, plant physiology and plant growth; and the techniques for successful plant propagation; practice skills to identify types of pathogens and pests that affect plants; demonstrate local cultural practices including pruning, fertilization, planting, irrigation and harvesting; and understand the principles of plant tissue culture and gene transfer in plant breeding; and prepares the student for a successful transfer to a university for a baccalaureate degree. The certificate program closely follows the design developed by the Central Valley Consortium Agricultural Education Tech Prep.

Program Learning Outcomes

1. Students should be proficient in basic computer applications, such as word processing, spread sheet, and internet.
2. Students should be able to listen actively and communicate clearly and coherently.
3. Students should be able to think critically and analytically to accomplish problem solving.
4. Students should be able to use technology to learn, live and work.
5. Program completers should demonstrate time management, accountability and dependability skills.

Core Requirements

Complete 24 units

AGBUS 010	Agricultural Accounting	3
AGBUS 012	Agricultural Economics	3
AGBUS 015	Agribusiness Computer Applications	3
AGBUS 046	Agricultural Sales and Communications	3
AGBUS 096V	Work Experience: Agricultural Business	1-8
HORT 022	Turf Practices	3
PLANT 010	Principles of Plant Science	3
PLANT 010L	Principles of Plant Science Laboratory	1
PLANT 014	Soil Science	4

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Computer Networking - Competence, Certificate of Achievement

The Computer Networking - Competence Certificate is designed to prepare students for careers in information technology specifically in the area of computer networking. Students learn how to design and implement network software using Microsoft Windows and/or similar operating systems; and continues preparation for an AS degree and/or for transfer to a four-year college.

Program Learning Outcomes

1. Demonstrate understanding of intermediate networking and operating concepts by proposing solution to a more difficult networking and operating system problems, and also perform configurations of both hardware and software to, writing scripts in Unix/Linux or administer Windows server implement the proposed solution.
2. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task to problems of intermediate level.

Core Requirements

Complete 29.5 units

COM ST 001A	Public Speaking	3
CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CS 056	Networking Essentials	3
CSN 058A	Introduction to Desktop Operating Systems	3
CSP 029A	Pascal Programming	3
CSW 023	HTML for Web Publishing	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A - Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Minimum Units Required: 32.5

Complete all courses with a grade of "C" or better.

Computer Networking - Essentials, Certificate of Achievement

The Computer Networking - Essentials Certificate is designed to prepare students for entry-level careers in information technology specifically in the area of computer networking. Students learn how to design and implement network software using Microsoft Windows and/or similar operating systems.

Program Learning Outcomes

1. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task.
2. Demonstrate understanding of basic networking and operating concepts by proposing solution to a simple networking and operating system problem, and also perform basic configurations of both hardware and software to implement the solution.

Core Requirements

Complete 14.5 units

CS 011	Fundamentals of Computer Science	3
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CS 032	Introduction to Computer Operating Systems	3
CS 056	Networking Essentials	3
CSP 029A	Pascal Programming	3
ELECT 014C	Troubleshooting Computers	2.5

Restricted Electives

Area A - Complete 3 units selected from:

COM ST 001A	Public Speaking	3
ENG 001A	Reading and Composition	3

Minimum Units Required: 17.5

Complete all courses with a grade of "C" or better.

Computer Networking Software, Certificate of Achievement

The Computer Networking Certificate is designed to prepare students for careers in information technology specifically in the area of computer networking. Students learn how to design and implement network software using Microsoft Windows and/or similar operating systems; and preparations for an AS degree and/or for transfer to a four-year college.

Program Learning Outcomes

1. Demonstrate understanding of advanced networking and operating concepts by proposing solution to a extreme difficult networking and operating system problems, and also perform configurations of both hardware, software and writing scripts in Unix/Linux or administer Windows server implement the proposed solution across the network using Active Directory and Group Policies.
2. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task.

Core Requirements

Complete 35.5 units

COM ST 001A	Public Speaking	3
CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CS 056	Networking Essentials	3
CSN 058A	Introduction to Desktop Operating Systems	3
CSN 058B	Microsoft Windows Server	3
CSN 060	Network Security	3
CSP 029A	Pascal Programming	3
CSW 023	HTML for Web Publishing	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A - Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C Programming	3

Area B - Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 026B	Data Structures with Java	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Area C - Complete 3 units selected from:

CSN 058C	Implementing Windows Network Infrastructure	3
CSN 058D	Implementing Windows Active Directory Services	3

Minimum Units Required: 44.5

Complete all courses with a grade of "C" or better.

Computer Operations, Certificate of Achievement

Upon successful completion of the Computer Operations Certificate, the student demonstrates skills, knowledge, and training for employment as a beginning computer operator; his or her ability to use an operating system; and his or her ability to logically solve and write a solution in a first semester programming language course.

Program Learning Outcomes

Upon successful completion of the Computer Operations Certificate, the student demonstrates skills, knowledge, and training for employment as a beginning computer operator; his or her ability to use an operating system; and his or her ability to logically solve and write a solution in a first semester programming language course.

Core Requirements

Complete 17 units

BIM 001A *	Beginning Keyboarding	1
CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3
CS 056	Networking Essentials	3
MATH 090	Beginning Algebra	4

Restricted Electives

Area A - Complete 1 unit selected from:

CS 050H	Special Studies: Computer Science	1-4
CS 098V	Work Experience: Computer Science	1-8

Area B - Complete 3 units selected from:

CS 042	Introduction to Unix/Linux	3
CSP 025	Assembly Language Programming	3
CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 029A	Pascal Programming	3
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3

*or Typing Certificate for 40 WPM+

Minimum Units Required: 21

Complete all courses with a grade of "C" or better.

Computer Programming, Certificate of Achievement

Upon successful completion of the Computer Programming Certificate, the student demonstrates skills, knowledge, and training for employment as a programmer or programmer trainee and to logically solve problems in at least two programming languages; and for an AA degree and/or for transfer to a four-year college.

Program Learning Outcomes

1. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task.
2. Demonstrate the skills to plan, create, test, and debug computer programs using procedural programming or Object-Oriented Programming techniques that may involve using of basic data structures such as stacks and queues to solve basic to intermediate problems.
3. Demonstrate understanding of basic networking concepts and ability to utilize that knowledge to configure a basic networking device and solve basic network security problems.
4. Demonstrate the skills to use application software such as word processing, spreadsheet processing programs, and database management system.
5. Demonstrate understanding of basic Operating System concepts and ability to utilize that knowledge to setup the Operating System of a computer system.

Core Requirements

Complete 26.5 units

CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3
CS 056	Networking Essentials	3
CSA 020	Computer Information Systems Applications	3
CSP 025	Assembly Language Programming	3
CSP 029A	Pascal Programming	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A - Complete 6 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3
CSP 043A	Database Design and Implementation using Oracle	3

Area B - Complete 3 units selected from:

CSP 026B	Data Structures with Java	3
CSP 031B	C++ Programming II	3

Area C - Complete 3 units selected from:

MATH 001	Calculus I	5
MATH 012	Introduction to Probability and Statistics	4

MATH 020	Finite Mathematics	3
MATH 039	Precalculus	5
Area D - Complete 3 units selected from:		
COM ST 001A	Public Speaking	3
COM ST 003	Interpersonal Communication	3
Area E - Complete 3 units selected from:		
CS 054	Fundamentals of Data Communications	3
CS 056	Networking Essentials	3
Area F - Complete 3 units selected from:		
BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3
BUS 080	Bookkeeping	3

Minimum Units Required: 44.5

Complete all courses with a grade of "C" or better.

Computer Programming - Competence, Certificate of Achievement

Upon successful completion of the Computer Programming - Competence Certificate, the student demonstrates skills, knowledge, and training for employment as a programmer trainee and to logically solve problems in at least one programming language; and continues preparation for an AA degree and/or for transfer to a four-year college.

Program Learning Outcomes

1. Demonstrate understanding of basic Operating System concepts and ability to utilize that knowledge to setup the Operating System of a computer system.
2. Demonstrate the skills to use application software such as word processing, spreadsheet processing programs, and database management system.
3. Demonstrate the skills to plan, create, test, and debug computer programs using procedural programming or Object-Oriented Programming techniques.
4. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task.

Core Requirements

Complete 23.5 units

CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3
CSA 020	Computer Information Systems Applications	3
CSP 025	Assembly Language Programming	3
CSP 029A	Pascal Programming	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A- Complete 3 units selected from:

COM ST 001A	Public Speaking	3
COM ST 003	Interpersonal Communication	3

Area B - Complete 3 units selected from:

MATH 001	Calculus I	5
MATH 012	Introduction to Probability and Statistics	4
MATH 020	Finite Mathematics	3
MATH 039	Precalculus	5
Area C - Complete 3 units selected from:		
CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Minimum Units Required: 32.5

Complete all courses with a grade of "C" or better.

Computer Programming - Essentials, Certificate of Achievement

Upon successful completion of the Computer Programming - Essentials Certificate, the student demonstrates skills, knowledge, and training for employment as a programmer trainee and to logically solve problems; and begins preparation for an A.A. degree and/or for transfer to a four-year college.

Program Learning Outcomes

1. Demonstrate understanding of how the different parts of a computer performs by diagnosing a problem and also perform the necessary diagnostic task.
2. Demonstrate the skills to plan, create, test, and debug computer programs using procedural programming or Object-Oriented Programming techniques to solve simple problems.
3. Demonstrate understanding of basic Operating System concepts and ability to utilize that knowledge to setup the Operating System of a computer system.
4. Demonstrate the skills to use application software such as word processing, spreadsheet processing programs, and database management system.

Core Requirements

Complete 17.5 units

CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CSA 020	Computer Information Systems Applications	3
CSP 029A	Pascal Programming	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Minimum Units Required: 17.5

Complete all courses with a grade of "C" or better.

Computer Science, Certificate of Achievement

Upon successful completion of the Computer Science Certificate, the student demonstrates skills, knowledge, and training for employment as a programmer or programmer trainee; and preparation for an AS degree in Computer Science.

Program Learning Outcomes

Upon successful completion of the Computer Science Certificate, the student demonstrates skills, knowledge, and training for employment as a programmer or programmer trainee; and preparation for an AS degree in Computer Science.

Core Requirements

Complete 32.5 units

COM ST 001A	Public Speaking	3
CS 011	Fundamentals of Computer Science	3
CS 032	Introduction to Computer Operating Systems	3
CS 033	Systems Analysis and Design	3
CS 042	Introduction to Unix/Linux	3
CS 056	Networking Essentials	3
CSP 025	Assembly Language Programming	3
CSP 029A	Pascal Programming	3
CSP 043A	Database Design and Implementation using Oracle	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A - Complete 5 units selected from:

MATH 001	Calculus I	5
MATH 039	Precalculus	5

Area B - Complete 4 units selected from:

MATH 001	Calculus I	5
MATH 002	Calculus II	4

Area C - Complete 6 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Area D - Complete 3 units selected from:

CSP 026B	Data Structures with Java	3
CSP 031B	C++ Programming II	3

Minimum Units Required: 50.5

Complete all courses with a grade of "C" or better.

Computer Support, Certificate of Achievement

Upon successful completion of the Computer Support Certificate, the student will demonstrate skills, knowledge, and training for employment in a computer support position. The student demonstrates the ability to use common business software applications, create basic web pages, and write computer programs in a working environment.

Program Learning Outcomes

Upon successful completion of the Computer Support Certificate, the student will demonstrate skills, knowledge, and training for employment in a computer support position. The student demonstrates the ability to use common business software applications, create basic web pages, and write computer programs in a working environment.

Core Requirements

Complete 29.5 units

CS 011	Fundamentals of Computer Science	3
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CS 012	Introduction to Management Information Systems	3
CS 056	Networking Essentials	3
CSA 020	Computer Information Systems Applications	3
CSA 035	Multimedia Presentations	3
CSP 029A	Pascal Programming	3
CSP 043A	Database Design and Implementation using Oracle	3
CSW 023	HTML for Web Publishing	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Area A - Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Area B - Complete 5 units selected from:

BUS 001A	Principles of Accounting	5
or		
BUS 010A	Bookkeeping	3
and		
BUS 080	Bookkeeping	3

Area C - Complete 3 units selected from:

COM ST 001A	Public Speaking	3
COM ST 003	Interpersonal Communication	3

Area D - Complete 3 units selected from:

MATH 001	Calculus I	5
MATH 012	Introduction to Probability and Statistics	4
MATH 020	Finite Mathematics	3
MATH 039	Precalculus	5

Minimum Units Required: 43.5

Complete all courses with a grade of "C" or better.

Computer Support Technician, Certificate of Achievement

Upon successful completion of the Computer Support - Technician Certificate, the student will demonstrate skills, knowledge, and training for employment in a computer support position. The student demonstrates the ability to use common business software applications in a working environment and create basic web pages.

Program Learning Outcomes

Upon successful completion of the Computer Support - Technician Certificate, the student will demonstrate skills, knowledge, and training for employment in a computer support position. The student demonstrates the ability to use common business software applications in a working environment and create basic web pages.

Core Requirements

Complete 26.5 units

CS 011	Fundamentals of Computer Science	3
CS 012	Introduction to Management Information Systems	3
CS 056	Networking Essentials	3
CSA 020	Computer Information Systems Applications	3

CSA 035	Multimedia Presentations	3
CSP 029A	Pascal Programming	3
CSW 023	HTML for Web Publishing	3
ELECT 014C	Troubleshooting Computers	2.5
ENG 001A	Reading and Composition	3

Restricted Electives

Complete 3 units selected from:

COM ST 001A	Public Speaking	3
COM ST 003	Interpersonal Communication	3

Minimum Units Required: 29.5

Complete all courses with a grade of "C" or better.

Computer Web Developer, Certificate of Achievement

Upon successful completion of the requirements for a Computer Web Developer Certificate, the student demonstrates skills, knowledge, and training to design, develop, modify, and maintain web pages and web sites. The intent of this program is to enable the student to secure employment as an intermediate-level technician at a web page design business.

Program Learning Outcomes

1. Demonstrate the ability to do the following: a) to prepare, design, and modify HTML files to build and revise web pages and web sites. b) design web pages and web sites to meet current functional design standards, relevant statutes, and electronic commerce functions. c) to add advanced features to web pages including scripting language coding, multimedia, and animation.
2. Demonstrate the ability to understand and use basic computer-related terminology, hardware, and software to manage web sites, anticipate and correct security problems, launch and test web pages using various operating systems.

Core Requirements

Complete 33 units

CS 011	Fundamentals of Computer Science	3
CS 019	Introduction to E-Commerce	3
CS 042	Introduction to Unix/Linux	3
CS 056	Networking Essentials	3
CSN 040	Information Security Fundamentals	3
CSP 043A	Database Design and Implementation using Oracle	3
CSW 021	JavaScript Programming	3
CSW 022	Computer Interface and Web Design	3
CSW 023	HTML for Web Publishing	3
CSW 038	Web Animation with Flash	3
CSW 039	Dreamweaver	3

Restricted Electives

Area A - Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Area B - Complete 3 units selected from:

CSP 026B	Data Structures with Java	3
CSP 031B	C++ Programming II	3

Minimum Units Required: 39

Complete all courses with a grade of "C" or better.

Computer Web Developer - Technician, Certificate of Achievement

Upon successful completion of the requirements for a Computer Web Developer - Technician Certificate, the student demonstrates skills, knowledge, and training to set up a basic web page with simple scope and graphics or to secure employment as an entry-level technician at a web page design business. The student demonstrates his or her ability to set up, change and maintain web pages for themselves and others.

Program Learning Outcomes

Upon successful completion of the requirements for a Computer Web Developer - Technician Certificate, the student demonstrates skills, knowledge, and training to set up a basic web page with simple scope and graphics or to secure employment as an entry-level technician at a web page design business. The student demonstrates his or her ability to set up, change and maintain web pages for themselves and others.

Core Requirements

Complete 27 units

CS 011	Fundamentals of Computer Science	3
CS 042	Introduction to Unix/Linux	3
CSA 020	Computer Information Systems Applications	3
CSP 029A	Pascal Programming	3
CSP 043A	Database Design and Implementation using Oracle	3
CSW 021	JavaScript Programming	3
CSW 023	HTML for Web Publishing	3
CSW 038	Web Animation with Flash	3
CSW 039	Dreamweaver	3

Restricted Electives

Complete 3 units selected from:

CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3

Minimum Units Required: 30

Complete all courses with a grade of "C" or better.

Horticulture - Landscape Basics, Certificate of Achievement

Upon successful completion of the Horticulture Landscape Basics Certificate, the student demonstrates skills, knowledge and training for employment in the following industry position: beginning landscape maintenance. The student demonstrates his or her ability to provide general plant maintenance, and transplant plants.

Program Learning Outcomes

1. Student demonstrates skills, knowledge and training necessary for employment in the landscape maintenance industry. Successful employment will be evaluated by survey.

- Students will be able to think critically and solve problems within the Horticulture field.
- Students will demonstrate time management, accountability and dependability skills within the Horticulture field.

Core Requirements

Complete 6 units

HORT 001	Fundamentals of Horticulture	3
HORT 020	Landscape Maintenance	3

Restricted Electives

Complete 6 units selected from:

HORT 021	Landscape Construction	3
HORT 022	Turf Practices	3
HORT 023	Landscape Irrigation and Drainage	3
HORT 026	Introduction to Arboriculture	3

Minimum Units Required: 12

Complete all courses with a grade of "C" or better.

Horticulture - Landscape Management, Certificate of Achievement

Upon successful completion of the Horticulture - Landscape Management Certificate, the student demonstrates skills, knowledge, and training to take the State Landscape Association Certified Technicians test or for employment positions in the following: groundskeeper, landscape installer, landscape maintenance, pruner, and starting a personal business. The student demonstrates his or her ability to: plant plants, mow lawns, fertilize plant material, prune trees and shrubs, to do basic landscape design, identify plant pests, identify plants and bid a job.

Program Learning Outcomes

- Students will be able to think critically and solve problems within the Horticulture field.
- Students will demonstrate time management, accountability and dependability skills within the Horticulture Field.
- Students will be able to identify basic pest problems.
- Students will have basic plant identification knowledge.

Core Requirements

Complete 33 units

BUS 031	Introduction to Management	3
HORT 001	Fundamentals of Horticulture	3
HORT 002	Plant Materials and Usage - Fall	3
HORT 003	Plant Materials and Usage - Spring	3
HORT 005	Introduction to Plant Pests and Diseases	3
HORT 020	Landscape Maintenance	3
HORT 021	Landscape Construction	3
HORT 022	Turf Practices	3
HORT 023	Landscape Irrigation and Drainage	3
HORT 024	Principles of Landscape Design	3
HORT 026	Introduction to Arboriculture	3

Minimum Units Required: 33

Complete all courses with a grade of "C" or better.

Horticulture - Nursery Management, Certificate of Achievement

Upon successful completion of the Horticulture - Nursery Management Certificate, the student demonstrates skills, knowledge, and training to take the State Nursery Association CCN (California Certified Nurseryman) pro test for the following employment positions in the Nursery field: retail sales, growing of nursery stock, growing of floriculture plants, maintenance and upkeep of plant material and starting a personal business. The student demonstrates his or her ability to transplant plants, fertilize plant material, assist a customer in plant selection, develop a crop schedule, and identify plants.

Program Learning Outcomes

- Students will demonstrate time management, accountability and dependability skills within the Horticulture field.
- Students will be able to think critically and problem solve within the Horticulture field.
- Students will be able to identify common plants used in the landscape.
- Students will be able to identify basic pest problems.

Core Requirements

Complete 32 units

BUS 031	Introduction to Management	3
HORT 001	Fundamentals of Horticulture	3
HORT 002	Plant Materials and Usage - Fall	3
HORT 003	Plant Materials and Usage - Spring	3
HORT 005	Introduction to Plant Pests and Diseases	3
HORT 010	Greenhouse Production	3
HORT 012	Plant Propagation/Production	3
HORT 023	Landscape Irrigation and Drainage	3
HORT 024	Principles of Landscape Design	3
HORT 026	Introduction to Arboriculture	3
HORT 072	House Plants and Interior Landscaping	2

Minimum Units Required: 32

Complete all courses with a grade of "C" or better.

Horticulture - Turf Grass, Certificate of Achievement

Upon successful completion of the Horticulture Turf Grass Certificate, the student demonstrates skills, knowledge, and training for employment with public and private employers. The student demonstrates his or her ability to mow lawns, identify plant pest, install and care for lawn, prune trees and shrubs and fertilize lawns.

Program Learning Outcomes

- Students will have turf grass knowledge, i.e. mowing, varieties, fertilizer needs.
- Students will have basic plant identification knowledge.

3. Students will be able to look at and solve basic problems in the horticulture field.
4. Students will demonstrate time management, accountability and dependability skills within the Horticulture field.

Core Requirements

Complete 38 units

AGBUS 015	Agribusiness Computer Applications	3
HORT 001	Fundamentals of Horticulture	3
HORT 002	Plant Materials and Usage - Fall	3
HORT 003	Plant Materials and Usage - Spring	3
HORT 005	Introduction to Plant Pests and Diseases	3
HORT 020	Landscape Maintenance	3
HORT 021	Landscape Construction	3
HORT 022	Turf Practices	3
HORT 023	Landscape Irrigation and Drainage	3
HORT 026	Introduction to Arboriculture	3
PLANT 010	Principles of Plant Science	3
PLANT 010L	Principles of Plant Science Laboratory	1
PLANT 014	Soil Science	4

Minimum Units Required: 38

Complete all courses with a grade of "C" or better.

APPLIED SCIENCE, BUSINESS, AND TECHNOLOGY DIVISION

Division Dean: Danell Hepworth, M.S.

Holt 140

(209) 954-5230

FAX: (209) 954-3733

Faculty: Sean Alford, B.A.; Sergio Calderon, A.S.; Johnathan Cardiel, M.A.; Dean L. Danielson, M.B.A.; Richard W. Dettloff, B.V.E.; John Bradley Hannan, B.A.; Bennett Howser, Ph.D.; Kathleen Huff, M.A.; Andrzej Kobylanski, Ph.D.; Jonathan Krupp, Ph.D.; Alberto Luna, A.A.; Joseph MacIsaac, A.S.; Lorenzo Mariani, A.A.; Scot F. Martin, M.S.; Steven McCarty, J.D.; Jennie L. Noriega, M.A.; Kamran Sedighi, M.S.; Alicia Stewart, M.B.A.; Alex Taddei, A.A.; David Thomas, M.A.; Bee Vang, A.A.; Frank R. Villalovoz, B.A.; Martha Villarreal, J.D.; Christoffer E. Wardell, C.P.A.; Mary Jo Zimmerman, M.A.

Subjects

- Agricultural Engineering (AGEGR)
- Architectural Drafting (ARCH)
- Automotive Body (AUTOBODY)
- Automotive Mechanics (AUTOMECH)
- Automotive Technology (AUTO)
- Automotive Technology: Apprenticeship (A-AUTO)
- Business Administration (BUS)
- Business Information Management (BIM)
- Caterpillar: Apprenticeship (CAT)
- Computer Science Applications (CSA)
- Construction Technology (CONST)
- Construction Technology: Apprenticeship (A-CON)
- Diesel Technology (DIESL)
- Electrical Technology (ELEC)
- Electrical Technology: Apprenticeship (A-ELE)
- Electron Microscopy (E M)
- Electronics Technology (ELECT)
- Engineering (ENGR)
- Engineering Technology (E TECH)
- Heating and Air Conditioning (HVACR)
- Industrial Technology (INDUS)
- Industrial Technology: Apprenticeship (A-IND)
- Mechanical Technology (MECH)
- Mechanical Technology: Apprenticeship (A-MEC)
- Welding (WELDING)

Degree Programs

- Accounting, Associate in Science
- Architectural Drafting, Associate in Science
- Automation Technology - Mechatronics, Associate in Science
- Automotive Technology, Associate in Science
- Business, Associate in Science
- Business Administration, Associate in Science for Transfer
- Caterpillar Dealer Service Technician Apprenticeship, Associate in Science

- Computer Network Security Technician, Associate in Science
- Computer Network Technician, Associate in Science
- Diesel Equipment Technician, Associate in Science
- Electrical Technology, Associate in Science
- Electron Microscopy - Biological, Associate in Science
- Electron Microscopy - Materials, Associate in Science
- *Engineering - Civil, Associate in Science
- *Engineering - Computer, Associate in Science
- *Engineering - Electrical, Associate in Science
- Engineering - Mechanical, Aeronautical, and Manufacturing, Associate in Science
- Engineering Computer-Aided Drafting, Associate in Science
- Engineering Technology, Associate in Science
- Fluid Power and Automation Technology, Associate in Science
- Heating and Air Conditioning - Refrigeration, Associate in Science
- Heavy Equipment Technician, Associate in Science
- Interdisciplinary Studies - Business Option, Associate in Arts
- Logistics and Transportation, Associate in Science
- Machining Technology, Associate in Science
- Office Management, Associate in Science
- Real Estate, Associate in Science
- Retail Management and Merchandising, Associate in Science

Certificate Programs

- Accounting
- Administrative Assistant
- Agriculture Mechanics
- Architectural Drafting
- Automation Technician - Mechatronics
- Automotive Body Basic Repair and Restoration
- Automotive Body Intermediate Repair and Restoration
- Automotive Body Advanced Repair and Restoration
- Automotive Dealer Technician
- Automotive Electric Technology
- Automotive Lubrication Technician
- Automotive Master Technician
- Automotive Mechanics Technology
- Basic Business
- Bookkeeping
- Computer Network Security Technician
- Computer Networking Technician
- Computer Numerical Control Operator/Programmer
- Diesel Automotive Equipment Technician
- Diesel Equipment Technician
- Electrical Technology
- Electrical Technology - Apprenticeship
- Electrical Technology - General Electrician Trainee
- Electron Microscopy - Biological

- Electron Microscopy - Crystalline Material
- Electronics Technology
- Engineering Fundamentals
- Engineering - Computer-Aided Drafter
- Engineering Technology
- *Entrepreneurship
- Fluid Power and Automation Technology
- General Office
- Heating and Air Conditioning
- Heavy Equipment Mechanic
- Heavy Equipment Technician
- Industrial Technology
- Industrial Technology - Electrical Apprenticeship
- Industrial Technology - Maintenance Apprenticeship
- Industrial Technology - Mechanical Apprenticeship
- Industrial Technology - Operations Apprenticeship
- International Business
- Logistics and Transportation Supervisor
- Machinist: Entry-Level
- Medical Office Assistant
- Merchandising
- Municipal Clerk
- Office Assistant
- Office Management
- Real Estate
- Refrigeration
- Retail Management
- *Small Business
- Solar Photovoltaic Installation Technician
- Supervision and Management
- Tax Preparation
- Traffic Shipping and Receiving Technician
- Welding Technology

* - Pending Approval

Applied Science, Business, and Technology Division Degree Programs

Accounting, Associate in Science

Upon successful completion of the Associate in Science degree, the student demonstrates the skills and training for employment and/or transfer to a four-year college or university.

Program Learning Outcomes

1. Demonstrate an understanding of management decision making skills.
2. Apply accounting theory, income measurement disclosures and analysis in a corporate environment.
3. Apply GAAP to transactions relating to corporate entities and debt financing.
4. Demonstrate a basic understanding of the accounting cycle including the calculations required to prepare basic financial statements in accordance with Generally Accepted Accounting Principles (GAAP) for basic entities.

5. Demonstrate the skills and training for employment in a basic accounting or business environment and/or transfer to a four-year college or university.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 20 units

BUS 001A	Principles of Accounting	5
BUS 001B	Principles of Accounting	5
BUS 003	Financial Accounting	5
BUS 004	Managerial Accounting	5

Major Requirements - Restricted Electives

Complete 7 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 011	Income Tax Procedures	3
BUS 015	Excel Spreadsheets	3
BUS 018A	Business Law	3
BUS 020	Introduction to Business	3
BUS 021	Marketing	3
BUS 070	Payroll Accounting	2
BUS 081	California Income Tax Preparation	1
CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3
ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3
MATH 010	Introduction to Contemporary Mathematics	3

Minimum Major Units Required: 27

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Architectural Drafting, Associate in Science

Upon successful completion of the Architectural Drafting Associate in Science Degree, the student will have acquired skills, knowledge, and training for employment in the field of architecture. Acquired skills will include professional presentation with two and three dimensional graphics, conceptual evaluation and analysis related to basic design theory, and the ability to analyze and implement building codes and develop technical construction drawings and documentation for common architectural problems. In addition, the student will acquire skills leading to entry into other related trades where plan reading and preparation is required. Many of the courses lead to transfer to university level architecture programs.

Program Learning Outcomes

Students will have acquired skills in manual, and computer driven, presentation of 2 dimensional and 3 dimensional architectural structures, with emphasis on presentation graphics, basic design theory, codes analysis and construction documentation.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Core Requirements

Complete 37 units

ARCH 001	Basic Architectural Drafting	3
ARCH 005	Architectural Detailing	4
ARCH 006	Digital Tools for Architecture	3
ARCH 008	Materials of Construction	3
ARCH 010	Computer-Aided Drafting for Architecture	3
ARCH 014	Advanced Architectural Practice	3
ARCH 020	Architectural Design and Drawing I	3
ARCH 021	Architectural Design and Drawing II	3
ARCH 078	Building Codes	3
CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3
CSW 039	Dreamweaver	3

Minimum Major Units Required: 37

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 61

Automation Technology - Mechatronics, Associate in Science

This program will take the student through the major components of industrial robotics and automation. Electronics and electrical applications are covered to develop troubleshooting techniques. Robotics will provide familiarity with the basic movement and placement of equipment. An Electric Motors course is intended to provide experience with current drive systems. Programmable Logic Controllers will be covered to provide computer based control and programming. Through a selected progression of electronic, electrical, mechanical, and troubleshooting courses, the student will be able to function as an Electronics Automation Technician/Mechanic.

Program Learning Outcomes

1. Students will have the ability to troubleshoot robotics circuits at 100% accuracy to industry standards.
2. Students will have the ability to create a Ladder Logic Diagram to control a Programmable Logic Controller.
3. Students will have the ability to construct and control a pick-and-place pneumatic system.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 25.5 units

E TECH 047	Introduction to Industrial Control Systems	3
ELECT 011	AC and DC Network Analysis	4
ELECT 012	Solid State Devices	4
ELECT 013A	Digital Logic, Circuits, and Systems	4
ELECT 014B	Advanced Electronics Troubleshooting	2.5
ELECT 017	Robotics/Automation Introduction	4
ELECT 018	Robotics/Automation/Mechatronics Systems	4

Minimum Major Units Required: 25.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Automotive Technology, Associate in Science

The major in Automotive Technology is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Students will gain an appreciation of the environment and safety for themselves, others, and our community.
2. Students will gain skills and knowledge in the area of their concentration.
3. Students will reinforce their previous learning by applying knowledge of measurements, calculations, scientific concepts and principles to the working knowledge of sophisticated automotive equipment.
4. Students will be equipped with skills that promote personal and social development. Students will engage with professional communities that require adherence to requirements and encourage leadership within these business organizations.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Restricted Electives

Complete 18 units selected from:

AUTOBODY 080A	Auto Body Repair	2
AUTOBODY 080B	Auto Body Repair	2
AUTOBODY 080H	Auto Body Repair	2
AUTOBODY 081A	Introductory Auto Collision Repair Laboratory	1
AUTOBODY 081B	Beginning Auto Collision Repair Laboratory	1
AUTOBODY 081C	Intermediate Auto Collision Repair Laboratory	1
AUTOBODY 081D	Advanced Auto Collision Repair Laboratory	1
AUTOBODY 084A	Introductory Auto Collision Repair	6
AUTOBODY 084B	Beginning Auto Collision Repair	6
AUTOBODY 084C	Intermediate Auto Collision Repair	6
AUTOBODY 084D	Advanced Auto Collision Repair	6
AUTOBODY 087C	Auto Body Specialization	4
AUTOBODY 098V	Work Experience: Auto Body Technology	1-4
AUTOMECH 072	Basic Brakes, Suspensions, Wheel Alignment, and Maintenance	3
AUTOMECH 073	Basic Engine Performance and Electrical Systems	3

AUTOMECH 074/AGEGR 074	Basic Engines	3
AUTOMECH 087A	Automobile Mechanics Specialization	3-4
AUTOMECH 087B	Auto Electrics Specialization	3-4
AUTOMECH 091	Starting, Charging, and Electrical Systems	6
AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 094	Manual Drivetrain and Axles	5
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096A	Fuel Management and Computer Controls	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6
AUTOMECH 097	Automatic Transmissions and Transaxles	6
AUTOMECH 098V	Work Experience: Auto Mechanics	1-4

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Business, Associate in Science**

The Major in Business is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Students will describe and discuss the global dimensions of business, including socio-cultural, political, legal, technological and economic environments.
2. Students will apply basic knowledge of legal issues and accounting principles.
3. Students will have communication, interpersonal, leadership, quantitative, and teamwork skills as well as a solid understanding of the contemporary business environment.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 3 units

BUS 020	Introduction of Business	3
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Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 3 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 009	Ethical Issues in Business	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3
Area C - Complete 3 units selected from:		
BUS 021	Marketing	3
BUS 022	Professional Selling	3
BUS 023	Advertising	3
Area D - Complete 3 units selected from:		
BUS 024	Retail Management	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3
BUS 036	Human Resources Management	3
BUS 037	Human Behavior in Organizations	3
BUS 057	Introduction to Logistics	3
Area E - Complete 3 units selected from:		
BUS 026	Economics of Business	3
BUS 033	Introduction to Public Administration	3
BUS 034	Introduction to Municipal Clerkship	3
BUS 055	International Business	3
BUS 067	Introduction to Personal Finance	3
Area F - Complete 3 units selected from:		
BUS 028	Entrepreneurial Mindset	3
BUS 029	Introduction to Entrepreneurship	3
BUS 060	Small Business Management	3

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Business Administration, Associate in Science for Transfer**

The Associate in Science in Business Administration for Transfer degree provides the student with an introductory foundation of business and prepares a student to transfer to a CSU. The Associate in Science in Business Administration for Transfer program prepares students for a broad range of opportunities in the area of business. The completion of this degree provides preparation for upper division work for students seeking to transfer and pursue a baccalaureate degree in Business from a California State University (CSU). The program offers students a foundation in business operations and management, accounting, economics, mathematics, computer science, and business law.

Upon completion of the appropriate four-year institution degree students will be prepared to enter occupations such as the following: Accountants and Auditors, Business Operations Specialists, Financial Managers, General and Operations Managers, Human Resources Specialists, Labor Relations Specialists, Management Analysts, Market Research Analysts, Marketing Specialists and Sales Managers. This degree is designed to provide a pathway to a CSU major and

baccalaureate degree in Business Administration. California Community College students who are awarded an Associate in Science in Business Administration degree are guaranteed admission with junior standing in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

Program Learning Outcomes

1. Students will have a solid understanding of the legal, ethical, and contemporary business environment.
2. Demonstrate a fundamental knowledge of Management Information Systems (MIS) and its terminology.
3. Analyze application problems and choose appropriate mathematical models to solve the problems.
4. The student will be able to find probability using the normal distribution.
5. Students will know how to use economic data sets/formulas in order to interpret and analyze data.
6. Analyze a situation, choose mathematical constructs best suited to model the situation and propose an appropriate solution or conclusion.
7. Apply commonly used computer application programs to compose relevant business documents.
8. Apply accounting and legal concepts and principles in making decisions about business operations.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 16 units

BUS 003	Financial Accounting	5
BUS 004	Managerial Accounting	5
ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

BUS 018A	Business Law	3
BUS 019	Legal Environment of Business	3
Area B - Complete 3 units selected from:		
MATH 012	Introduction to Probability and Statistics	4
MATH 013	Survey of Calculus	4
MATH 020	Finite Mathematics	3
Area C - Complete 6 units selected from:		
BUS 020	Introduction to Business	3
CS 011	Fundamentals of Computer Science	3
CS 012	Introduction to Management Information Systems	3

Minimum Major Units Required: 28

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Caterpillar Dealer Service Technician Apprenticeship, Associate in Science**

Upon successful completion of the Caterpillar Dealer Service Technician AS Degree Apprenticeship program, the apprentice will be prepared for completion of the related and supplemental instruction component of the State approved San Joaquin Valley Automotive Technician Apprenticeship Program. The apprentice is awarded a Journey Level Certificate from the State Division of Apprenticeship Standards upon completion of 7600 hours of On-The-Job training and satisfactory employer reports. The apprentices are qualified to perform service, maintenance, repairs and troubleshooting of diesel engines, transmissions, drive trains, transaxles, brakes, suspensions, steering systems, charging systems, electrical systems, electronic engine controls, fuel management controls, computer control systems and air conditioning systems on Caterpillar tractors and heavy equipment.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

Upon successful completion of the Caterpillar Dealer Service Technician AS Degree Apprenticeship program, 90% of the apprentices will score 60 or higher on the AED test administered by Caterpillar and/or Association of Equipment Dealers.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of

major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core Requirements

Complete 38 units

AGEGR 021	Agriculture Welding	2
CAT 080	Caterpillar Service Industry	3
CAT 081	Caterpillar Engine Fundamentals	4
CAT 082	Fundamentals of Hydraulics	3
CAT 083	Caterpillar Engine Fuel Systems	3
CAT 084	Fundamentals of Electrical Systems	3
CAT 085	Caterpillar Air Conditioning	2
CAT 086	Fundamentals of Caterpillar Power Trains	3
CAT 087	Caterpillar Machine Hydraulic Systems	3
CAT 090	Caterpillar Undercarriage and Final Drive	3
CAT 091	Caterpillar Machine Electronic Systems	3
CAT 092	Caterpillar Engine Performance	2
CAT 093	Caterpillar Diagnostic Testing	2
CAT 094	Caterpillar Machine Specific Systems	2

Internship - Complete 16 units

CAT 069V	Internship: Heavy Equipment-Caterpillar	1-4
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Minimum Major Units Required: 54

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 78**Computer Network Security Technician, Associate in Science**

The Computer Network Security Technician program prepares students for a variety of career opportunities including the networking field. The program prepares students for the CCNA Security certification industry exam. Constantly evolving and modernizing classes include targeted skills training in emerging technologies like Wireless, Voice Over Internet Protocol (VOIP), Virtual Private Networks (VPN), Network Security, and Operating System Hardening. Many of these subjects have become basic required knowledge in other career fields. Students in Business, the Sciences, Arts, and Administration of Justice will all need skills in network technologies to excel in their fields. This course path gives training in today's important tech knowledge areas. This degree includes courses with an emphasis in Security. This degree incorporates the latest in emerging technologies and skills employers are seeking.

Program Learning Outcomes

1. Students will demonstrate the confidence to work independently to setup, configure, and hardening a network, stand-alone or application network system.
2. Students will demonstrate skills, knowledge, and training for employment as a Security expert, Senior Security Administrator and Penetration expert; his or her ability to use the OSI model; and his or her ability to logically solve and design a logical and

physical Topology with proper security implementations.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 24.5 units

ELECT 014C	Troubleshooting Computers	2.5
ELECT 030A	Introduction to Computer Networks	4
ELECT 030B	Advanced Electronic Computer Networks	4
ELECT 030C	Basic Electronic Network Systems	4
ELECT 030D	Advanced Electronic Network Systems	4
ELECT 030E	Network Hardware Application	2
ELECT 034	Network Systems Security	4

Major Requirements - Restricted Electives

Complete 9 units selected from:

CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CSA 020	Computer Information Systems Applications	3
CSA 035	Multimedia Presentations	3
CSP 017	Introduction to Programming Concepts and Methodologies	3

Minimum Major Units Required: 33.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Computer Network Technician, Associate in Science

Upon successful completion of the Computer Network Technician Associate in Science Degree program, the student will demonstrate the ability to function as an entry-level computer network technician. The student will attain the required skills to: design and implement Local Area Networks (LANs) and autonomous Wide Area Networks (WANs), wire infrastructure as per industry standards, select and implement appropriate protocols, configure network devices such as routers, firewalls and switches, as well as manage, maintain and troubleshoot networks. The program prepares the students for industry certification such as Cisco Certified Network Associate (CCNA) and entry-level positions in the Information Technology industry such as network technician, network administrator, network system installer, network system sales/marketing, or independent network services contractor.

Program Learning Outcomes

- Students will demonstrate skills, knowledge, and training for employment as a Junior Network Administrator; his or her ability to use the OSI model; and his or her ability to logically solve and design a logical and physical Topology.
- Students will demonstrate the confidence to work independently to setup, configure, and maintain a network, stand-alone or application network system.
- Students will demonstrate oral and written communications skills.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 36.5 units

CS 032	Introduction to Computer Operating Systems	3
CS 042	Introduction to Unix/Linux	3
CSA 020	Computer Information Systems Applications	3
CSA 035	Multimedia Presentations	3
ELECT 014C	Troubleshooting Computers	2.5
ELECT 030A	Introduction to Computer Networks	4
ELECT 030B	Advanced Electronic Computer Networks	4
ELECT 030C	Basic Electronic Network Systems	4
ELECT 030D	Advanced Electronic Network Systems	4
ELECT 030E	Network Hardware Application	2
ELECT 034	Network Systems Security	4

Minimum Major Units Required: 36.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60.5

Diesel Equipment Technician, Associate in Science

Upon successful completion of the Diesel Equipment Technician AS Degree, the student demonstrates skills, knowledge, and training for entry-level employment for the following positions: technician for truck dealerships/repair shops, technician for truck fleet shops, technician for agricultural dealerships/repair shops, technician for industrial engine dealers, and technician for marine engine repair facilities. The student demonstrates skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Program Learning Outcomes

Upon successful completion of the Diesel Equipment Technician AS Degree, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 39 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 091	Heavy Duty Brakes	3
DIESL 092	Heavy Duty Power Trains	3.5
DIESL 093	Heavy Duty Truck Components	3
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 098	Allison Transmission Service	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4
WELDING 010	Basic Welding for the Trades	4

Minimum Major Units Required: 39

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 63**Electrical Technology, Associate in Science**

Upon successful completion of the Electrical Technology - General Electrician track of the Associate of Science program, the student demonstrates knowledge and skills of the electrical industry in the capacity of a beginning electrician, preferably as an indentured electrical apprentice where the students compare, contrast, and apply basic electrical theory and other major portions of the electrical field. Training and skills demonstrated by the student in this program are crucial to safe entry into electrical apprenticeships and trainee positions in the electrical field. This program aligns with the required courses by the State of California in order to complete the General Electrician Trainee coursework as a career

pathway to becoming a Journeyman General Electrician. The general education coursework will build on additional skills and knowledge such as written and oral communication that may lead to positions as an electrical contractor or manager in the electrical industry.

Program Learning Outcomes

1. Students will demonstrate the skills, knowledge, and training for employment as an entry-level Electrician or Electrical Technician. The student demonstrates the understanding of electrical theory, AC/DC circuits, safety, code requirements, and components that make up the electrical distribution system.
2. Students will demonstrate the knowledge of safety practices required for installations and repairs of electrical wiring.
3. Students will demonstrate the knowledge and skills to be effective team members possessing excellent oral and written communication skills, and assuming technical and managerial leadership roles throughout their career.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 40 units

ELEC 030	Fundamentals of Electricity	5
ELEC 031	Electrical Wiring Methods	7
ELEC 034	Motor Controls	5
ELEC 037	Introduction to Programmable Logic Controllers	4
ELEC 041	Fire Alarms	2
ELEC 042	Security Systems	2
ELEC 070	Electrical Codes I	3
ELEC 073	Construction Safety - OSHA	2
ELEC 076	Electrical Motors	5
ELEC 077	Industrial Wiring Methods	5

Minimum Major Units Required: 40

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 64**Electron Microscopy - Biological, Associate in Science**

The Associate in Science degree in Electron Microscopy – Biological is designed to offer students a broad base in the natural sciences, emphasizing microscopy and laboratory techniques. The Associate in Science degree may be completed in conjunction with the Electron Microscopy - Biological Certificate. Students who complete this degree will be prepared to work as Biological Electron Microscopy Technicians,

Histotechnologists, Staff Research Associates, and Structural Biology Lab Technicians.

Program Learning Outcomes

1. Students will understand the applications of electron microscopy to all areas of biology.
2. Students will work safely in any science lab.
3. Students will work cooperatively in groups.
4. Students will prepare biological tissues for both TEM and SEM examination.
5. Students will use both light and electron microscopes to record images of cells.
6. Students will identify the ultrastructure of biological material.
7. Students will use standard lab tools used in electron microscopy.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 31 units

E M 070	Introductory Techniques for Electron Microscopy	3
E M 071	Light Microscopy and Photography	3
E M 072B	Ultramicrotomy for Electron Microscopes	4.5
E M 074	Scanning Electron Microscopy	3
E M 075B	Biological Ultrastructure	2
E M 082B	Advanced Techniques in Biological Electron Microscopy	3.5
E M 084B	Biological Scanning Electron Microscopy	2
E M 087	Electron Microscopy Equipment Maintenance	3
E M 088	Current Microscopies	3
E M 089	Digital Imaging for Microscopy	2
E M 090	Advanced Projects in Electron Microscopy	2

Major Requirements - Restricted Electives

Area A - Biology - Complete 4 units selected from:

BIOL 001	Core Biology	4
BIOL 010	Survey Biology	4

Area B - Chemistry - Complete 4 units selected from:

CHEM 001A	General Chemistry	5
CHEM 003A	Introduction to Chemistry	4

Area C - Mathematics - Complete 4 units selected from:

MATH 001	Calculus I	5
MATH 013	Survey of Calculus	4
MATH 038B	Precalculus II	4
MATH 039	Precalculus	5

Area D - Physics - Complete 4 units selected from:

PHYS 010	Introduction to Physics	4
PHYS 002A	General Physics	4

Minimum Major Units Required: 47

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 65

Electron Microscopy - Materials, Associate in Science

Upon successful completion of the Electron Microscopy - Materials Associate in Science Degree the student will demonstrate a basic understanding of the theory, operation, and maintenance of the electron microscope. Skills in microscopy related instrumentation and associated sample preparation techniques will serve as a foundation for employment or additional study.

Program Learning Outcomes

1. Students will demonstrate an understanding of the relationship between electrons and ions in creating images with specialized high performance microscopes.
2. Students will analyze and evaluate energy dispersive spectra of unknown sample composition for proper identification.
3. Students will demonstrate the application of sample preparation techniques to routine and unique specimens.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 46 units

CHEM 003A	Introductory Chemistry	4
E M 070	Introductory Techniques for Electron Microscopy	3
E M 071	Light Microscopy and Photography	3
E M 073M	Introduction to Materials Electron Microscopy	4
E M 074	Scanning Electron Microscopy	3
E M 083M	Physical Electron Microscopy Laboratory	3
E M 085M	Analytical Scanning Electron Microscopy	3
E M 086M	Focused Ion Beam (FIB) Operation and Atomic Force Microscopy (AFM)	2
E M 087	Electron Microscopy Equipment Maintenance	3
E M 088	Current Microscopies	3
E M 089	Digital Imaging for Microscopy	2

E M 090	Advanced Projects in Electron Microscopy	2
E TECH 020	Materials and Measurements	3
MATH 038B	Precalculus II	4
PHYS 010	Introduction to Physics	4

Minimum Major Units Required: 46

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 64**Engineering - Civil, Associate in Science****PENDING APPROVAL**

Upon successful completion of the Associate in Science Degree in Engineering - Civil, the student demonstrates skills, knowledge, and ability for transfer to a Bachelor's Degree program at a public, private, or out-of-state college or university. The student has completed the mathematical, scientific, and basic engineering theory courses required for upper division study in a Civil Engineering specific major. Delta College's program meets the lower division requirements established by the California Engineering Liaison Committee. General Education requirements vary by transfer campus. Students should consult with a counselor for guidance in selecting a specific general education pattern.

Program Learning Outcomes

1. Successful graduates will demonstrate knowledge of the theory and application of mathematics, chemistry and physics as applied in the engineering field.
2. Successful graduates will demonstrate knowledge of the theory and application of the engineering design process.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 43 units:

CHEM 001A	General Chemistry	5
ENGR 001	Introduction to Engineering and Technology	3
ENGR 002	Engineering Graphics	3
ENGR 004	Engineering Materials	4
ENGR 008	Statics	3
MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

ENGR 006	Engineering Circuit Analysis	4
ENGR 010	Surveying	3

Area B - Complete 3 units selected from:

CSP 031A	C++ Programming I	3
ENGR 029	Engineering Applications for Digital Computations	3

Minimum Major Units Required: 49

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Engineering - Computer, Associate in Science****PENDING APPROVAL**

Upon successful completion of the Associate in Science Degree in Engineering - Computer, the student demonstrates skills, knowledge, and ability for transfer to a Bachelor's Degree program at a public, private, or out-of-state college or university. The student has completed the mathematical, scientific, and basic engineering theory courses required for upper division study in a Computer Engineering specific major. Delta College's program meets the lower division requirements established by the California Engineering Liaison Committee. General Education requirements vary by transfer campus. Students should consult with a counselor for guidance in selecting a specific general education pattern.

Program Learning Outcomes

1. Successful graduates will demonstrate knowledge of the theory and application of mathematics, chemistry and physics as applied in the engineering field.
2. Successful graduates will demonstrate knowledge of the theory and application of the engineering design process.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 41 units:

CS 055	Discrete Structures for Computer Science	3
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3
ENGR 001	Introduction to Engineering and Technology	3
ENGR 006	Engineering Circuit Analysis	4
MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4

PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Minimum Major Units Required: 41

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Engineering - Electrical, Associate in Science****PENDING APPROVAL**

Upon successful completion of the Associate in Science Degree in Engineering - Electrical, the student demonstrates skills, knowledge, and ability for transfer to a Bachelor's Degree program at a public, private, or out-of-state college or university. The student has completed the mathematical, scientific, and basic engineering theory courses required for upper division study in an Electrical Engineering specific major. Delta College's program meets the lower division requirements established by the California Engineering Liaison Committee. General Education requirements vary by transfer campus. Students should consult with a counselor for guidance in selecting a specific general education pattern.

Program Learning Outcomes

1. Successful graduates will demonstrate knowledge of the theory and application of mathematics, chemistry and physics as applied in the engineering field.
2. Successful graduates will demonstrate knowledge of the theory and application of the engineering design process.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 40 units:

CHEM 001A	General Chemistry	5
CSP 031A	C++ Programming I	3
ENGR 001	Introduction to Engineering and Technology	3
ENGR 006	Engineering Circuit Analysis	4
MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Minimum Major Units Required: 40

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Engineering - Mechanical, Aeronautical, and Manufacturing, Associate in Science**

Upon successful completion of the Associate in Science Degree in Engineering - Mechanical, Aeronautical, and Manufacturing, the student demonstrates skills, knowledge, and ability for transfer to a Bachelor's Degree program at a public, private, or out-of-state college or university. The student has completed the mathematical, scientific, and basic engineering theory courses required for upper division study in a Mechanical, Aerospace, or Manufacturing Engineering specific major. Delta College's program meets the lower division requirements established by the California Engineering Liaison Committee. General Education requirements vary by transfer campus. Students should consult with a counselor for guidance in selecting a specific general education pattern.

Program Learning Outcomes

1. Successful graduates will demonstrate knowledge of the theory and application of mathematics, chemistry and physics as applied in the engineering field.
2. Successful graduates will demonstrate knowledge of the theory and application of the engineering design process.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 47 units:

CHEM 001A	General Chemistry	5
ENGR 001	Introduction to Engineering and Technology	3
ENGR 002	Engineering Graphics	3
ENGR 004	Engineering Materials	4
ENGR 006	Engineering Circuit Analysis	4
ENGR 008	Statics	3
MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

Major Requirements - Restricted Elective

Complete 3 units selected from:

CSP 031A	C++ Programming I	3
ENGR 029	Engineering Applications for Digital Computations	3

Minimum Major Units Required: 50

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 68**Engineering Computer-Aided Drafting, Associate in Science**

The Major in Engineering Computer-Aided Drafting is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Program completers demonstrate a basic understanding of the relationship between manufacturing technology, engineering measurements, and engineering design.
2. Program completers are able to create industry standard mechanical and civil drawings of basic complexity.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 15 units selected from:

ENGR 001	Introduction to Engineering and Technology	3
E TECH 011	Engineering Drafting	3
E TECH 012	Computer-Aided Drafting	3
E TECH 022	Three Dimensional Modeling	3
E TECH 031	Fundamentals of Civil Drafting	3

Major Requirements - Restricted Electives

Complete 3 units selected from:

E TECH 080	Applied Surveying	3
MECH 015	Machine Tool Process	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Engineering Technology, Associate in Science**

Upon successful completion of the Associate in Science Degree in Engineering Technology, the student demonstrates skills for employment as an engineering aid, computer-aided drafter, designer, surveyor, engineering technician, or other technical support position in the field of engineering. The student will have a basic understanding of the relationship between

manufacturing technology, engineering materials and components, engineering measurements, engineering analysis, and engineering design. The student will be able to create industry-standard mechanical and civil drawings of advanced complexity.

Program Learning Outcomes

1. Program completers demonstrate a basic understanding of the relationship between manufacturing technology, engineering materials and components, engineering measurements, engineering analysis, and engineering design.
2. Program completers are able to create industry standard mechanical and civil drawings of advanced complexity.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 34 units

ENGR 001	Introduction to Engineering and Technology	3
E TECH 011	Engineering Drafting	3
E TECH 012	Computer-Aided Drafting	3
E TECH 020	Materials and Measurements	3
E TECH 022	Three Dimensional Modeling	3
E TECH 031	Fundamentals of Civil Drafting	3
E TECH 034	Machine Drafting	3
E TECH 041	Civil Drafting: Site Design and Improvement	4
E TECH 046	Mechanical and Electrical Systems	3
E TECH 047	Introduction to Industrial Control Systems	3
E TECH 078	Applied Statics and Strength of Materials	3

Major Requirements - Restricted Electives

Complete 3 units selected from:

E TECH 080	Applied Surveying	3
MECH 015	Machine Tool Process	3

Minimum Major Units Required: 37

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Fluid Power and Automation Technology, Associate in Science**

Upon successful completion of the Fluid Power and Automation Technology A.S. Degree, the student demonstrates the skills, knowledge and training for employment in the following fluid power industry positions: fluid power mechanic, fluid power technician, salesperson in fluid power industry; ability to apply

his/her knowledge of physics and mathematics in solving applied fluid power problems; plan and install complex fluid power systems; maintain, troubleshoot, and repair control systems using proper tools and procedures; and select, compile, and use technical information from reference materials; and preparation to take the Fluid Power Society certification exams for fluid power mechanics, technicians, and specialists; preparation to transfer to a four-year Bachelor's Degree program. This program is accredited by the Fluid Power Education Foundation (FPEF) as one of their nationally recognized "Key Schools" supporting the fluid power industry.

Program Learning Outcomes

Upon successful completion of the Fluid Power and Automation Technology A.S. Degree, the student will analyze a potential fluid power application and select proper components used to fabricate the fluid power system.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 15 units

INDUS 031	Industrial Hydraulics	4
INDUS 035	Mobile Hydraulics	4
MECH 015	Machine Tool Process	3
PHYS 010	Introduction to Physics	4

Major Requirements - Restricted Electives

Complete 4 units selected from:

ELEC 030	Fundamentals of Electricity	5
ELECT 011	AC and DC Network Analysis	4

Minimum Major Units Required: 19

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Heating and Air Conditioning - Refrigeration, Associate in Science

Upon successful completion of the Heating and Air Conditioning - Refrigeration A.S. Degree, the student demonstrates the skills, knowledge and training to service and repair heating and air conditioning equipment; ability to mechanically and electrically troubleshoot problems typically encountered in the

industry; and completion of Environmental Protection Agency (EPA) refrigerant recovery exam for their certification.

Program Learning Outcomes

1. Student will be able to communicate with customers in a professional manner.
2. Student will be able to design, install, service, maintain, and troubleshoot residential and commercial HVAC systems.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core Requirements

Complete 28 units

HVACR 070A	Refrigeration and Air Conditioning	2.5
HVACR 070B	Intermediate Refrigeration	2.5
HVACR 071A	Air Conditioning Components and Circuits	6
HVACR 071B	Air Conditioning Troubleshooting	6
HVACR 071C	Air Conditioning Systems and Heat Pumps	6
HVACR 072A	Intro to Residential Gas Heating	2.5
HVACR 072B	Commercial Gas Heating Devices	2.5

Major Requirements - Restricted Electives

Area A - Complete 4 units selected from:

ELEC 030	Fundamentals of Electricity	5
ELECT 011	AC and DC Network Analysis	4
HVACR 071D	Commercial Air Conditioning Design and Operation	6

Area B - Complete 4 units selected from:

MECH 081	Metal Trade Layout and Forming	5
WELDING 010	Basic Welding for the Trades	4

Minimum Major Units Required: 36

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Heavy Equipment Technician, Associate in Science

Upon successful completion of the Heavy Equipment Technician AS Degree, the student demonstrates skills, knowledge, and training or entry-level employment for the following positions: technician or heavy equipment dealerships, technician for heavy equipment repair facilities, technician for agricultural dealerships/repair shops, and technician for industrial engine dealers. The student demonstrates skills to receive state and national

certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE). A grade of C or better is required in each course.

Program Learning Outcomes

Upon successful completion of the Heavy Equipment Technician AS Degree, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 27.5 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4
WELDING 010	Basic Welding for the Trades	4

Minimum Major Units Required: 27.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Interdisciplinary Studies - Business Option, Associate in Arts

The Business option is designed for the student preparing for a career in business or for transfer to a four-year college or university to pursue the Baccalaureate degree in business. With careful planning the student will be able to complete the Associate in Arts degree while concurrently satisfying the lower division transfer preparation for the baccalaureate degree.

Students planning to transfer to a California State University (CSU) in Business should explore completing the AS-T degree designed specifically for transfer to the CSU. The AS-T degree provides the highest priority admission and other benefits for students who successfully complete them. Additional Business related AA-T degrees may become available in the near future. See the college catalog or a counselor for additional information regarding AA-T/AS-T Degrees for transfer to the CSU.

Students are encouraged to see a counselor for assistance in developing an educational plan that will identify the lower division major preparation and general education coursework that corresponds to the intended major and transfer institution. Students should consult www.assist.org for current course articulation in their major. Please refer to the "Essential Transfer Information Checklist" located in the transfer section of the current college catalog. Counseling appointments may be scheduled online by selecting "Counseling" under "Student Resources" on the Delta College home page. Failure to consult with a counselor may unnecessarily delay progress toward transfer.

Courses in the Business option provide the student an awareness and understanding of how various economic and business systems operate. Integrative courses in the discipline expose the student to fundamental business practices in accounting, business, computer information systems, economics, law, and mathematics. Courses foster an awareness of the theories, concepts, and terminology of business, creative problem-solving, decision making and communication skills. Transfer majors appropriate for this option include but are not limited to: Accounting, Business Administration, Economics, Finance, Management Information Systems, Human Resource Management, and Public Administration.

Program Learning Outcomes

1. Demonstrate appropriate discipline literacy in the business field.
2. Compare and contrast controversial viewpoints regarding issues from the perspective of two or more disciplines.
3. Analyze the similarities and differences between the ways knowledge is collected and applied in the disciplines studied.
4. Demonstrate the ability to integrate and utilize knowledge from multiple disciplines.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern - 24 units
- California State University General Education (CSU-GE) pattern - 40 units

- Intersegmental General Education Transfer Curriculum-CSU version (IGETC-CSU) pattern - 37 units

*Completion of the San Joaquin Delta College Associate Degree General Education Pattern may be appropriate for the student who is:

- planning to transfer to an out of state or independent 4-year college or university that accepts completion of the Associate Degree for transfer.
- following NCAA guidelines.

General Education requirements vary widely from institution to institution. It is highly recommended that students see a counselor or consult the selected baccalaureate transfer campus catalog for appropriate GE course selection.

Courses Within the Area of Emphasis

Complete a minimum of 18 units including a minimum of one course from each area.

Area 1 - Accounting

BUS 001A	Principles of Accounting	5
BUS 001B	Principles of Accounting	5
BUS 003	Financial Accounting	5
BUS 004	Managerial Accounting	5
BUS 015	Excel Spreadsheets	3

Area 2 - Law

BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3

Area 3 - Economics

ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3

Area 4 - Mathematics

MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
MATH 005	Linear Algebra	4
MATH 012	Introduction to Probability and Statistics	4
MATH 013	Survey of Calculus	4
MATH 020	Finite Mathematics	3

Area 5 - Business Related Courses

BUS 020	Introduction to Business	3
BUS 036	Human Resources Management	3
COM ST 005	Argumentation and Debate	3
CS 011	Fundamentals of Computer Science	3
CS 012	Introduction to Management Information Systems	3
CSP 026A	Java Programming	3
CSP 028A	Visual Basic .NET Programming	3
CSP 031A	C++ Programming I	3
CSP 031B	C++ Programming II	3

Minimum Area of Emphasis Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Logistics and Transportation, Associate in Science

The degree in Logistics and Transportation is designed to develop a strong base of knowledge and skills that will serve as a foundation for the pursuit of a career in fields such as; Supervisor of Transportation and Material-Moving Machines and Vehicle Operators, Cargo and Freight Agents, Emergency Services Dispatcher, Logistics Hub Supervisor, Transportation Safety Administration.

Program Learning Outcomes

- The degree in Logistics and Transportation is designed to develop a strong base of knowledge and skills that will serve as a foundation for the pursuit of a career within the industry.
- Demonstrate knowledge in the areas of transportation and distribution industries including the modes, means, and distribution industries including the modes, means, regulations, documentation, and rates of the relevant transportation system, transportation of hazardous materials; physical distribution and warehousing; and details relevant to importing and exporting of goods.
- Demonstrate knowledge of computer hardware and software at a beginning level.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 16.5 units

BUS 017	Business English	3
BUS 051	Introduction to Transportation	1.5
BUS 052	Supply Chain Logistics and Operations	3
BUS 056	Transportation: Export and Import	3
BUS 057	Introduction to Logistics	3
CSA 020	Computer Information Systems Applications	3

Major Requirements - Restricted Electives

Complete 3 units selected from:

BUS 020	Introduction to Business	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3
BUS 055	International Business	3

Minimum Major Units Required: 19.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Machining Technology, Associate in Science**

Upon successful completion of the Machining Technology Associate in Science Degree the student will demonstrate skills, knowledge and training for entry-level positions in a variety of Advanced Manufacturing industries including machine shops, metal fabrication shops, tool and die shops, mold making shops, research and development laboratories, industrial maintenance or millwright positions, and apprenticeships in these fields. The student will demonstrate safe and proper set up and operation of manual, and Computer Numerically Controlled (CNC) machine tools. These include lathes, milling machines, 3D printers, grinders, saws, and drill presses. Students will utilize Computer Aided Drafting (CAD), and Computer Aided Machining (CAM) software systems to fabricate parts using CNC machine tools and tools used in Additive Manufacturing. Students will also demonstrate the ability to read and operate inspection tools commonly used in the machining industry. The student will demonstrate his or her ability to apply mathematics, problem solving skills, communication, and machining techniques to the manufacturing process.

Program Learning Outcomes

1. A student will use Computer Aided Machining (CAM) Software, to transform information given from a mechanical drawing (Print) into a Computer Numerically Controlled (CNC) program used to fabricate metal parts. The part will have these features: hole patterns, contours, and pockets.
2. The student will create a metal part by developing a Computer Numerically Controlled (CNC) program. The overall project will consist of four components: 1. tooling selection, 2. spindle speed and feed rate calculations, 3. CNC program, 4. dimensional accuracy of the part.
3. The student will properly use inspection tools to dimensionally inspect fabricated metal parts.
4. The student will apply mathematics concepts to solve machining problems such as calculating machining feed rates and spindle speeds.
5. The student will machine a metal part using a milling machine and standard tooling. The part will have these features: a bolt hole pattern with drilled, reamed or tapped holes, a slot, and a pocket.
6. The student will machine a metal part using a lathe and standard tooling. The part will have these features: three diameters, a drilled hole, a taper, and a thread.
7. The student will demonstrate the application of engineering drafting standards for a variety of projects dealing primarily with orthographic projection and visualization.
8. The student will be able to prepare engineering drawings consistent with industry standards.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 30 units

E TECH 012	Computer-Aided Drafting	3
E TECH 022	Three Dimensional Modeling	3
MECH 070A	Elementary Machine Shop I	3
MECH 070B	Elementary Machine Shop II	3
MECH 073A	Machine Shop I	3
MECH 073B	Machine Shop II	3
MECH 074A	Computer Numerical Controlled Machining I	3
MECH 074B	Computer Numerical Controlled Machining II	3
MECH 076A	Computer Aided Machining I	3
MECH 076B	Computer Aided Machining II	3

Major Requirements - Restricted Electives

Complete 4 units selected from:

MECH 081	Metal Trade Layout and Forming	5
WELDING 010	Basic Welding for the Trades	4

Minimum Major Units Required: 34

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Office Management, Associate in Science**

Upon successful completion of an Associate in Science Degree in Office Management, the student demonstrates skills, knowledge, and training for employment available in private industry, non-profit organization, and government office for the following positions: Office Manager, Administrative Office Manager, Customer Service Manager, and Administrative Office Professional. The student demonstrates his or her ability to: supervise and train employees; develop and maintain office procedures; organize and coordinate work efficiently and set priorities; research and work on projects; communicate effectively orally and in writing. This program will also provide a foundation for students wishing to pursue further education in the field. A grade of "C" or better is required in each course.

Program Learning Outcomes

1. Program completers will assemble an Office Procedures Manual or Professional Portfolio demonstrating direct evidence of skills used in an office management environment.
2. Program completers will demonstrate the ability to format and write business communication for an office environment.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 24 units

BIM 001A	Beginning Keyboarding	1
BIM 001B	Intermediate Keyboarding and Document Processing	2
BIM 038	Office Technologies and Procedures	3
BIM 039	Office Management	3
BUS 015	Excel Spreadsheets	3
BUS 017	Business English	3
BUS 007	Business Communications	3
CSA 035	Multimedia Presentations	3
ECON 001A	Principles of Macroeconomics	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 3 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 020	Introduction to Business	3

Minimum Major Units Required: 30

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Real Estate, Associate in Science**

The Major in Real Estate is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Demonstrate knowledge in General Education and elective course requirements.
2. Demonstrate knowledge of property management principles and regulations.
3. Demonstrate knowledge of economic factors affecting real estate transactions and trends.
4. Able to explain and complete the forms associated with a real estate transaction.
5. Demonstrate knowledge in Real Estate sales, property management, real estate appraisal, or related fields.
6. The Major in Real Estate is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Area A - Complete 18 units selected from:

BUS 040	Real Estate Principles	3
BUS 041	Real Estate Practice	3
BUS 042	Real Estate Finance	3
BUS 043	Legal Aspects of Real Estate	3
BUS 026	Economics of Business	3

or

BUS 045	Real Estate Economics	3
BUS 046	Property Management	3

Area B - Complete 6 units selected from:

BUS 001A	Principles of Accounting	5
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or

BUS 003	Financial Accounting	5
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or

BUS 010A	Bookkeeping	3
BUS 008	Introduction to The American Legal System	3

or

BUS 018A	Business Law	3
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or

BUS 018B	Business Law	3
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or

BUS 019	Legal Environment of Business	3
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BUS 022	Professional Selling	3
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BUS 023	Advertising	3
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CSA 020	Computer Information Systems Applications	3
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MATH 077A	Business Mathematics	3
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and

MATH 077B	Business Mathematics	3
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Minimum Major Units Required: 24

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Retail Management and Merchandising, Associate in Science**

The Major in Retail Management and Merchandising is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

The Major in Retail Management and Merchandising is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 3 units

BUS 024	Retail Management	3
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Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3

Area B - Complete 12 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3
BUS 020	Introduction to Business	3
BUS 021	Marketing	3
BUS 022	Professional Selling	3
BUS 023	Advertising	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3
BUS 036	Human Resource Management	3
BUS 060	Small Business Management	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Applied Science, Business, and Technology Division Certificate Programs****Accounting, Certificate of Achievement**

Upon successful completion of the Accounting Certificate program, the student demonstrates the skills, knowledge, and training for entry-level positions as a bookkeeper, accounting supervisor, payroll clerk, or accounts payable/receivable clerk; and the skills necessary to complete up-to-date and accurate records of accounts and financial records, reconcile business-related bank statements with checkbooks, calculate employee wages and taxes from time cards, prepare and issue payroll checks, post entries to accounts receivable and payable. Individuals are able to prepare

bank deposits, maintain payroll and/or inventory records, prepare purchase orders, review expense reports, and find and correct errors in financial records.

Program Learning Outcomes

1. Demonstrate preparedness for entry into a basic accounting or business environment.
2. Apply accounting theory, income measurement and disclosures to corporate financial statements.
3. Demonstrate a basic understanding of management decision making skills.
4. Apply Generally Accepted Accounting Principles to transactions relating to corporate entities and debt financing.
5. Demonstrate a basic understanding of the accounting cycle including computations required to prepare basic financial statements in accordance with Generally Accepted Accounting Principles (GAAP).

Major Requirements - Core

Complete 23 units

BUS 001A	Principles of Accounting	5
BUS 001B	Principles of Accounting	5
BUS 003	Financial Accounting	5
BUS 004	Managerial Accounting	5
BUS 020	Introduction to Business	3

Major Requirements - Restricted Electives

Complete 12 units selected from:

BIM 001A	Beginning Keyboarding	1
BUS 011	Income Tax Procedures	3
BUS 015	Excel Spreadsheets	3
BUS 018A	Business Law	3
BUS 026	Economics of Business	3
BUS 063	Analysis of Financial Statements	3
BUS 067	Introduction to Personal Finance	3
BUS 070	Payroll Accounting	2
BUS 081	California Income Tax Preparation	1
BUS 089	QuickBooks	2
CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3
MATH 077A and MATH 077B	Business Mathematics	3

Minimum Units Required: 35

Complete all courses with a grade of "C" or better.

Administrative Assistant, Certificate of Achievement

Upon successful completion of the Administrative Assistant Certificate, the student demonstrates the skills, knowledge, and training for employment available in private industry, non-profit organizations, and government offices for the following positions: Executive Assistant, Administrative Assistant, Office Professional, Executive Secretary; demonstrates his or her ability to plan and organize meetings, maintain schedules and calendars, make travel arrangements, and communicate effectively orally; manage document input, output,

storage, and retrieval; prepare, write, and process a variety of business documents; prepare business presentations; and use critical thinking and problem-solving skills.

Program Learning Outcomes

1. Program completers will define and explain basic accounting and/or financial operations of a business.
2. Program completers will demonstrate the ability to use Microsoft Word and Microsoft Excel or current industry software applications in a business environment.

Core Requirements

Complete 18 units

BIM 038	Office Technologies and Procedures	3
BIM 081	Records Management and Filing	3
BUS 007	Business Communications	3
BUS 015	Excel Spreadsheets	3
BUS 017	Business English	3
CSA 035	Multimedia Presentations	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 5 units selected from:

BUS 030	Supervision and Human Relations	3
BUS 006/ COM ST 006 or COM ST 001A or COM ST 003 or COM ST 007	Business and Professional Communication	3
CSP 043A	Database Design and Implementation using Oracle	3
GUID 033	Job Seeking Skills	1

Minimum Units Required: 26

Complete all courses with a grade of "C" or better.

Agriculture Mechanics, Certificate of Achievement

Upon successful completion of the Agriculture Mechanics Certificate, the student demonstrates the skills, knowledge, and training for employment in equipment repair, equipment maintenance, and equipment assembly; and demonstrates his or her ability to troubleshoot equipment, properly adjust equipment, and perform necessary repairs. Upon completion of the certificate the student is prepared to take the Outdoor Power Equipment Certification Exams.

Program Learning Outcomes

1. Students demonstrate the ability to understand, diagnose and repair agricultural equipment systems

such hydraulics, diesel engine fuel systems and electrical systems.

Core Requirements

Complete 12 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
INDUS 035	Mobile Hydraulics	4
INDUS 094	Industrial Mathematics	3

Restricted Electives

Area A - Complete 2 units selected from:

AGEGR 021	Agricultural Welding	2
WELDING 010	Basic Welding for the Trades	4

Area B - Complete 3 units selected from:

AUTOMECH 073	Basic Engine Performance and Electrical Systems	3
DIESL 096	Diesel Engine Fuel and Tune-Up	3
MECH 015	Machine Tool Process	3

Minimum Units Required: 17

Complete all courses with a grade of "C" or better.

Architectural Drafting, Certificate of Achievement

Upon successful completion of the Architectural Drafting certificate, the student demonstrates skills, knowledge, and training for employment as a computer-aided drafter in the field of architecture. The student demonstrates the ability to analyze and construct documentation to develop solutions for common architectural problems. In addition, the student acquires skills leading to entry into other related trades where plan reading and preparation is required.

Program Learning Outcomes

Students will have acquired skills in manual, and computer driven, presentation of 2 dimensional and 3 dimensional architectural structures, with emphasis on presentation graphics and construction documentation.

Core Requirements

Complete 20 units

ARCH 001	Basic Architectural Drafting	3
ARCH 005	Architectural Detailing	4
ARCH 010	Computer-Aided Drafting for Architecture	3
ARCH 014	Advanced Architectural Practice	3
ARCH 020	Architectural Design and Drawing I	3
MATH 090	Beginning Algebra	4

Minimum Units Required: 20

Complete all courses with a grade of "C" or better.

Automation Technician - Mechatronics, Certificate of Achievement

This program will take the student through the major components of industrial robotics and automation. Electronics and electrical applications are covered to develop troubleshooting techniques. Robotics will provide familiarity with the basic movement and placement of equipment. An Electric Motors course is intended to provide experience with current drive systems. Programmable Logic Controllers will be covered to provide computer based control and programming. Through a selected progression of

electronic, electrical, mechanical, and troubleshooting courses, the student will be able to function as an Electronics Automation Technician/Mechanic.

Program Learning Outcomes

1. Students will demonstrate the ability to troubleshoot robotics circuits at 100% accuracy to industry standards.
2. Students will create a Ladder Logic Diagram to control a Programmable Logic Controller.
3. Students will construct and control a pick-and-place pneumatic system.

Core Requirements

Complete 25.5 units

E TECH 047	Introduction to Industrial Control Systems	3
ELECT 011	AC and DC Network Analysis	4
ELECT 012	Solid State Devices	4
ELECT 013A	Digital Logic, Circuits, and Systems	4
ELECT 014B	Advanced Electronics Troubleshooting	2.5
ELECT 017	Robotics / Automation Introduction	4
ELECT 018	Robotics / Automation /Mechatronics Systems	4

Minimum Units Required: 25.5

Complete all courses with a grade of "C" or better.

Automotive Body Basic Repair and Restoration, Certificate of Achievement

Upon successful completion of the Automotive Body Basic Repair and Restoration Certificate, the student demonstrates basic skills for employment as an automotive detailer and collision repair helper. After becoming employed, the student is eligible to take the examinations to be certified by the Automotive Service Excellence (ASE) or receive certification for various courses taken through I-CAR, Inter-Industry Conference on Auto Collision Repair.

Program Learning Outcomes

1. Students will demonstrate the basic knowledge of auto construction, parts, materials, tools and measurements.
2. Students will demonstrate basic metal shape control.
3. Students will demonstrate various basic welding procedures/skills.
4. Students will demonstrate the required safety knowledge set forth by CCAR/SP2 Safety.

Core Requirements

Complete 12 units

AUTOBODY 084A	Introductory Auto Collision Repair	6
AUTOBODY 084B	Beginning Auto Collision Repair	6

Restricted Electives

Area A - Complete 3 units selected from:

AUTOMECH 072	Basic Brakes, Suspensions, Wheel Alignment, and Maintenance	3
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AUTOMECH 073	Basic Engine Performance and Electrical Systems	3
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Area B - Complete 3 units selected from:

INDUS 094	Industrial Mathematics	3
MATH 076	Review of Arithmetic	3
MATH 078	Prealgebra	3

or

an assessment level 2 or higher on the math placement test and any additional 3 units.

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Automotive Body Intermediate Repair and Restoration, Certificate of Achievement

Upon successful completion of the Automotive Body Intermediate Repair and Restoration certificate, the student demonstrates skills for employment as an apprentice collision repair-person, apprentice paint technician, or as a painter's helper and may start his or her own business. After becoming employed, the student may be certified by the Automotive Service Excellence (ASE) or receive certification for various courses taken through I-CAR, Inter-Industry Conference on Auto Collision Repair.

Program Learning Outcomes

1. Demonstrate the skills of determining which parts need to be replaced or repaired and demonstrate the skills required to install or repair parts.
2. Demonstrate the skills of basic paint applications such as one stage and base coat/clear coat paint.
3. Demonstrate the skills of surface preparation prior to painting.
4. Demonstrate the skills of plastic and composite repair techniques.
5. Demonstrate intermediate welding techniques such as Metal Inert Gas (MIG) and resistance spot.
6. Demonstrate intermediate metal shaping techniques such as shrinking, stretching, bending and cutting.

Core Requirements

Complete 30 units

AUTO 084C	Intermediate Auto Collision Repair	6
AUTO 084D	Advanced Auto Collision Repair	6
AUTOBODY 084A	Introductory Auto Collision Repair	6
AUTOBODY 084B	Beginning Auto Collision Repair	6
AUTOMECH 072	Basic Brakes, Suspensions, Wheel Alignment, and Maintenance	3
AUTOMECH 073	Basic Engine Performance and Electrical Systems	3

Restricted Electives

Complete 6 units selected from:

AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6

Minimum Units Required: 36

Complete all courses with a grade of "C" or better.

Automotive Body Advanced Repair and Restoration Certificate of Achievement

Upon successful completion of the Automotive Body Advanced Repair and Restoration certificate, the student possesses skills for employment as an apprentice collision repair technician, apprentice paint technician, or as a painter's helper and is qualified to pursue business ownership. After becoming employed, the student may be certified by the Automotive Service Excellence (ASE) or receive certification for various courses taken through I-CAR, Inter-Industry Conference on Auto Collision Repair.

Program Learning Outcomes

1. Students will demonstrate the knowledge needed to accurately estimate, on a legal repair order (to Bureau of Automotive Repair standards), the required materials, parts and amount of labor to complete the repairs.
2. Students will demonstrate the advanced skill of assessing imperfections and irregularities of a surface in preparation for paint. Students will also demonstrate the skills necessary to perfect the surface prior to painting.
3. Students will demonstrate single stage and basecoat/clear coat painting skills at the industry standard level, including solvent/water based paints.
4. Students will perform the skills of metal shaping, shrinking, stretching, bending and cutting to demonstrate industry standard repairs at the advanced level.

Core Requirements

Complete 20 units

AUTOBODY 088A	Master Auto Body Technician	4
AUTOBODY 088B	Master Auto Body/Refinish Technician	4
AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6

Minimum Units Required: 20

Complete all courses with a grade of "C" or better.

Automotive Dealer Technician, Certificate of Achievement

Upon successful completion of the Automotive Dealer Technician certificate in partnership with the sponsoring General Motors dealership, the student demonstrates skills necessary to work as a fully trained General Motors Automotive Service educational Program (GM ASEP) dealership technician; meet and exceed the requirements of training in all eight ASE areas: engine repair, automatic transmissions/transaxles, manual drive transaxles, suspension and steering, brakes,

electrical/electronics, engine performance, and air conditioning. Students may also receive certification required for air conditioning repair and training for the California Headlamp Adjusters license. The student demonstrates skills, knowledge, and training for career opportunities that are available at General Motors dealerships as: GM Automotive Technician, GM Service Advisor, GM Service Manager or GM Corporate Employee.

The program is certified by the National Automotive Technicians Education Foundation (NATEF) in association with the National Institute for Automotive Service Excellence (ASE) and the General Motors Corporation (GM). This program is also certified by the California Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) to deliver the Basic and Advanced Clean Air Car course.

Program Learning Outcomes

1. Diagnose and repair mechanical problems on gasoline and diesel type engines.
2. The student will be able to diagnose and repair hydraulic systems.
3. The student will be able to diagnose and repair automotive suspension systems.
4. Diagnose and repair electrical in hybrid vehicle systems.
5. Diagnose and repair automotive air conditioning systems.
6. Diagnose and repair automotive engine performance systems to meet local state and federal standards.
7. Diagnose and repair automotive electrical systems.
8. The student will also meet the requirements for certification by the California Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) to receive the Basic and Advanced Clean Air Car course.
9. The student demonstrates skills, knowledge, and training for career opportunities that are available at General Motors dealerships as: GM Automotive Technician, GM Service Advisor, GM Service Manager or GM Corporate Employee. The program is certified by the National Automotive Technicians Education Foundation (NATEF) in association with the National Institute for Automotive Service Excellence (ASE) and the General Motors Corporation (GM).
10. Upon successful completion of the Automotive Dealer Technician certificate in partnership with the sponsoring General Motors dealership, the student demonstrates skills necessary to work as a fully trained General Motors Automotive Service educational Program (GM ASEP) dealership technician.

Core Requirements

Complete 58 units

AUTOMECH 091	Starting, Charging, and Electrical Systems	6
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AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 093	Engine Rebuilding	6
AUTOMECH 094	Manual Drivetrain and Axles	5
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096A	Fuel Management and Computer Controls	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6
AUTOMECH 097	Automatic Transmissions and Transaxles	6
AUTOMECH 098V	Work Experience: Auto Mechanics	11

Restricted Electives

Complete a minimum of 3 units selected from:
 INDUS 094 Industrial Mathematics 3
 or AA degree math requirement

Minimum Units Required: 61

Complete all courses with a grade of "C" or better.

Automotive Electric Technology, Certificate of Achievement

Upon successful completion of Auto Electric Technology program, the student demonstrates skills, knowledge, and training necessary to diagnose tests and repair today's vehicles including training in the areas of: Electrical/Electronics, Engine Performance/Driveability, Emissions, Air Conditioning and testing vehicles for state emission programs like Smog Check. This program is also certified by the California Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) to deliver the Basic and Advanced Clean Air Car course. The student may also receive certification required for air conditioning repair and training for the California Headlamp Adjusters license. The student demonstrates skills for career opportunities at dealerships, independent repair shops, test only stations, and public agencies such as: Auto Electric Technician, Auto Air Conditioning and Heating Technician, Engine Performance/Driveability Technician, Smog Check Test and Repair Technician, Tune up Technician or Installer. The program is certified by the National Automotive Technicians Education Foundation (NATEF) in association with the National Institute for Automotive Service Excellence (ASE). A grade of "C" or better is required in each course.

Program Learning Outcomes

1. Diagnose and repair automotive electrical systems.
2. Diagnose and repair automotive engine performance systems to meet local state and federal standards.
3. Diagnose and repair automotive air conditioning systems.
4. Diagnose and repair electrical in hybrid vehicle systems.

Core Requirements

Complete 32 units

AUTOMECH 091	Starting, Charging, and Electrical Systems	6
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096A	Fuel Management and Computer Controls	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6
INDUS 045	Industrial Technology	5
INDUS 094	Industrial Mathematics	3

Restricted Electives

Complete 8 units selected from:

AUTOMECH 072	Basic Brakes, Suspensions, Wheel Alignment, and Maintenance	3
AUTOMECH 073	Basic Engine Performance and Electrical Systems	3
AUTOMECH 074/ AGEGR 074	Basic Engines	3
AUTOMECH 090A	Emission Control Training Level 1	4
AUTOMECH 090B	Emissions Diagnosis and Repair	1.5
AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 093	Engine Rebuilding	6
AUTOMECH 094	Manual Drivetrain and Axles	5
AUTOMECH 097	Automatic Transmissions and Transaxles	6
DIESL 094	Diesel Engine Principles	3
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 099	Computer Diagnosis and Troubleshooting	2

Minimum Units Required: 40

Complete all courses with a grade of "C" or better.

Automotive Lubrication Technician, Certificate of Achievement

The candidate successfully completing the Automotive Lubrication Technician Certification will qualify for entry-level employment at an automotive repair facility. Beginning technicians will obtain skills required to complete services and basic repairs with proficiency at lubrication service centers found at dealerships, high-volume lubrication service centers, and independent repair shops. The candidate will be proficient in the following: lubrication services; electrical repairs in the battery, starting, and charging systems; braking system repairs; tire and suspension repairs; and preliminary engine management diagnostics usually associated with these lubrication service facilities.

Program Learning Outcomes

1. Students will gain an appreciation of the environment and safety for themselves, others, and our community.
2. Students will be equipped with skills that promote personal and social development. Students will engage with professional communities that require adherence to requirements and encourage leadership within these business organizations.
3. Students will gain skills and knowledge in the areas of brakes, suspensions, and electrical systems repair and service.

Core Requirements

Complete 18 units

AUTOMECH 072	Basic Brakes, Suspensions, Wheel Alignment, and Maintenance	3
AUTOMECH 073	Basic Engine Performance and Electrical Systems	3
AUTOMECH 091	Starting, Charging, and Electrical Systems	6
AUTOMECH 092	Brakes, Suspension, and Steering	6

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Automotive Master Technician, Certificate of Achievement

Upon successful completion of the Auto Master Technician certificate, the student demonstrates skills necessary to work as a fully trained automotive technician in all eight "ASE" areas: engine repair, automatic transmissions/transaxles, manual drive trains/axles, suspension and steering, brakes, electrical/electronics, engine performance, air conditioning, advanced engine performance, and the Clean Air Car Course for emission training. The student demonstrates skills, knowledge, and training for career opportunities at dealerships, independent repair shops, test only stations, and public agencies such as: Automotive Technician, Service Advisor, Service Manager, Engine Repair Technician, Automotive Transmission Technician, Transmission Technician, Alignment/Suspension Specialist, Brake Specialist, Electrical Technician, Engine Performance Driveability Technician, Auto Air Conditioning and Heating Technician, Smog Check Test and Repair Technician, Tune Up Technician or Installer.

The program is certified by the National Automotive Technicians Education Foundation (NATEF) in association with the National Institute for Automotive Service Excellence (ASE). This program is also certified by the California Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) to deliver the Basic and Advanced Clean Air Car course. The student may also receive certification required for air conditioning repair and training for the California Headlamp Adjusters license.

Program Learning Outcomes

1. Students will have knowledge and skills to prepare for state and national certifications; from the California Bureau of Automotive Repair Clean Air Car Course, Brake and Lamp licensure, the federal Environmental Protection Agency for protecting the environment while repairing air conditioning systems, and from the National Institute for Automotive Service Excellence, indicating automotive technician competency. This will be assessed through the successful completion of the related courses mapped to this outcome.

- Students demonstrate technical competence in automotive repair by successfully completing a National Automotive Technicians Education Foundation certified course of training within the eight specific related areas.
- Students will demonstrate repair order writing skills to meet Department of Consumer Affairs/Bureau of Automotive Repair requirements. This will be assessed through successful completion of repair order writing as evidenced using a rubric to evaluate the effectiveness of the repair order document.
- Student demonstrate skills necessary to work as a fully trained automotive technician in all eight "ASE" areas: engine repair, automatic transmissions/transaxles, manual drive trains/axles, suspension and steering, brakes, electrical/electronics, engine performance, air conditioning advanced engine performance. This will be assessed through the successful completion of the courses mapped to this outcome.

Core Requirements

Complete 54 units

AUTOMECH 091	Starting, Charging, and Electrical Systems	6
AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 093	Engine Rebuilding	6
AUTOMECH 094	Manual Drivetrain and Axles	5
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096A	Fuel Management and Computer Controls	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6
AUTOMECH 097	Automatic Transmissions and Transaxles	6
INDUS 094	Industrial Mathematics	3
WELDING 010	Basic Welding for the Trades	4

Restricted Elective

Complete 4 - 5 units selected from:

INDUS 035	Mobile Hydraulics	4
INDUS 045	Industrial Technology	5

Minimum Units Required: 58

Complete all courses with a grade of "C" or better.

Automotive Mechanics Technology, Certificate of Achievement

Upon successful completion of the Automotive Mechanics Technology certificate, the student demonstrates skills, knowledge and training for employment for the following industry positions: technician for repair of engines, automatic transmissions and transaxles, manual drive train and axles, suspension and steering and brakes. The student demonstrates the high level skills including ASE (Automotive Service Excellence) technician competence for these areas, service managers, shop owners of specialty shops, and major automotive corporation employees. The program is accredited by NATEF

(National Automotive Technicians Education Foundation). The program is certified in five ASE areas.

Program Learning Outcomes

- The student demonstrates the high level skills including ASE (Automotive Service Excellence) technician competence for these areas, service managers, shop owners of specialty shops, and major automotive corporation employees. The program is accredited by NATEF (National Automotive Technicians Education Foundation). The program is certified in five ASE areas.
- The student will demonstrate skills on how to diagnose and repair automotive electronic control systems.
- The student will be able to diagnose and repair automotive suspension systems.
- The student will be able to diagnose and repair hydraulic systems.
- Diagnose and repair mechanical problems on gasoline and diesel type engines.

Core Requirements

Complete 34 units

AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 093	Engine Rebuilding	6
AUTOMECH 094	Manual Drivetrain and Axles	5
AUTOMECH 097	Automatic Transmissions and Transaxles	6
INDUS 035	Mobile Hydraulics	4
INDUS 094	Industrial Mathematics	3
WELDING 010	Basic Welding for the Trades	4

Restricted Electives

Complete 6 units selected from:

AUTOMECH 073	Basic Engine Performance and Electrical Systems	3
AUTOMECH 091	Starting, Charging, and Electrical Systems	6
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096A	Fuel Management and Computer Controls	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6

Minimum Units Required: 40

Complete all courses with a grade of "C" or better.

Basic Business, Certificate of Achievement

Upon successful completion of the Basic Business Certificate program, the student demonstrates the skills, knowledge, and training a foundation of a variety of accepted business practices; principles and concepts; employment in the fields of clerical assistant or administrative clerk, doing mail sorting and distribution, supply room inventories, copy clerk, record keeping.

Program Learning Outcomes

- Program completers will analyze workplace scenarios identifying/debating legal, ethical and socially responsible.

2. Program completers will compare and contrast the functions of production, marketing, human resource, accounting, information, and financial management.
3. Program completers will assess elements of the global economy such as labor, capital, trade, natural resources, etc. and develop an action plan that describes how they will compete in this environment.
4. Program completers will describe the role of competition, government involvement, and culture in a selected country's economic system.
5. Program completers will identify different elements that distinguish capitalism, socialism, communism, and mixed economy.

Restricted Electives

Complete 12 units, including one course from 4 different Areas.

Area A

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B

BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3

Area C

BUS 020	Introduction to Business	3
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Area D

BUS 021	Marketing	3
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Area E

BUS 022	Professional Selling	3
BUS 023	Advertising	3

Area F

BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3

Minimum Units Required: 12

Complete all courses with a grade of "C" or better.

Bookkeeping, Certificate of Achievement

Successful completion of the Bookkeeping Certificate program will provide the skills necessary for an entry-level accounting clerk or bookkeeping job. Students will learn how to account for payroll and accounts payable/receivable; prepare complete, up-to-date, and accurate records of expenses, revenues and financial files; reconcile business bank statements; track and maintain records of employee wage and tax expenses; prepare business requisitions; post accounts receivable and payable; prepare bank deposits; maintain inventory records; compute account and expense totals; and find and correct errors in financial records.

Program Learning Outcomes

Students will apply the concept of production cost analysis by calculating wages, materials charged or returned, and overhead expenses to determine the total job cost and unit cost.

1. Students will analyze business problems and choose the appropriate applications leading to the solutions.

The applications may involve money management in bank records, payroll, trade discounts, cash discounts, markups, markdowns, and simple interest.

2. Students will analyze and record accounting transactions.
3. Students will apply the concept of production cost analysis by calculating wages, materials charged or returned, and overhead expenses to determine the total job cost and unit cost.

Core Requirements

Complete 13 units

BUS 015	Excel Spreadsheets	3
BUS 070	Payroll Accounting	2
BUS 089	QuickBooks	2
MATH 077A	Business Mathematics	3
MATH 077B	Business Mathematics	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 5 units selected from:

BIM 001A	Beginning Keyboarding	1
BIM 039	Office Management	3
BUS 001A (if not completed for Area A)	Principles of Accounting	5

CSA 020	Computer Information Systems Applications	3
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Area C - Complete 3 units selected from:

BUS 011	Income Tax Procedures	3
BUS 018A	Business Law	3
BUS 020	Introduction to Business	3
BUS 067	Introduction to Personal Finance	3

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Computer Network Security Technician, Certificate of Achievement

The Computer Network Security Technician program prepares students for a variety of career opportunities including the networking field. The program prepares students for Cisco Certified Network Associate (CCNA) and CCNA Security certification tests and CompTIA A+ tests. Constantly evolving and modernizing classes include targeted skills training in emerging technologies like Wireless, Voice Over Internet Protocol (VOIP), Virtual Private Networks (VPN), Network Security, and Operating System Hardening. Many of these subjects have become basic required knowledge in other career fields. Students in Business, the Sciences, Arts, and Administration of Justice will all need skills in network technologies to excel in their fields. This course path gives training in today's important tech knowledge areas. This certificate includes courses that apply towards an AS degree in Computer Network Technician and Computer Network Technician with emphasis in Security. This degree incorporates the latest in emerging technologies and skills employers are seeking.

Program Learning Outcomes

1. Analyze network security for enterprise networks and demonstrate proper network design.
2. Demonstrate advanced security IOS implementation (IPS, IPSEC, VPN's).
3. Demonstrate mastery of a networking knowledge base equivalent to obtaining CCNA in Security certifications from Cisco Systems.

Core Requirements

Complete 22.5 units

ELECT 014C	Troubleshooting Computers	2.5
ELECT 030A	Introduction to Computer Networks	4
ELECT 030B	Advanced Electronic Computer Networks	4
ELECT 030C	Basic Electronic Network Systems	4
ELECT 030D	Advanced Electronic Network Systems	4
ELECT 034	Network Systems Security	4

Minimum Units Required: 22.5

Complete all courses with a grade of "C" or better.

Computer Networking Technician, Certificate of Achievement

Upon successful completion of the Computer Network Technician Certificate program, the student demonstrates the knowledge required to function as an entry-level computer networking technician. The student will attain the necessary skills to: design and implement Local Area Networks (LANs) and Wide Area Networks (WANs), wire infrastructure as per industry standards, select and implement appropriate protocols, configure network devices such as routers and switches, as well as manage, maintain and troubleshoot networks. The program prepares the students for industry certifications such as CCNA as well as for entry-level positions as network technician, network administrator, network system installer, network system sales/marketing, or independent network services contractor.

Program Learning Outcomes

Upon successful completion of the Computer Networking Technician Certificate program, the student demonstrates the knowledge required to function as an entry-level computer networking technician. The student will attain the necessary skills to: design and implement Local Area Networks (LANs) and Wide Area Networks (WANs), wire infrastructure as per industry standards, select and implement appropriate protocols, configure network devices such as routers and switches, as well as manage, maintain and troubleshoot networks. The program prepares the students for industry certifications such as CCNA as well as for entry-level positions as network technician, network administrator, network system installer, network system sales/marketing, or independent network services contractor.

Core Requirements

Complete 18 units

ELECT 030A	Introduction to Computer Networks	4
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ELECT 030B	Advanced Electronic Computer Networks	4
ELECT 030C	Basic Electronic Network Systems	4
ELECT 030D	Advanced Electronic Network Systems	4
ELECT 030E	Network Hardware Application	2

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Computer Numerical Control Operator/Programmer, Certificate of Achievement

Upon successful completion of the CNC Operator certificate, the student will demonstrate skills, knowledge and training for entry-level positions in a variety of industries including machine shops, metal fabrication shops, tool and die shops, mold shops, industrial maintenance or millwright positions, and apprenticeships in these fields. The student will demonstrate the safe and proper set up and operation of Computer Numerically Controlled (CNC) machine tools. In addition to machine operation, the student will create and troubleshoot G & M Code programs. The student will demonstrate his or her ability to apply mathematics, problem solving skills, and machining techniques to the automated manufacturing process.

Program Learning Outcomes

1. Use computer aided drafting (CAD) programs to generate digital models.
2. Safely setup and run computerized machine tools.
3. Generate and troubleshoot G&M code programs by hand.
4. Apply mathematical concepts to solve machining problems.
5. Use computers to generate machine readable code for computerized machine tools.
6. Use manufacture's published data to calculate machining feed rates and spindle speeds for automated machine tools.

Core Requirements

Complete 18 units

E TECH 012	Computer-Aided Drafting	3
E TECH 022	Three Dimensional Modeling	3
MECH 074A	Computer Numerical Controlled Machining I	3
MECH 074B	Computer Numerical Controlled Machining II	3
MECH 076A	Computer Aided Machining I	3
MECH 076B	Computer Aided Machining II	3

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Diesel Automotive Equipment Technician, Certificate of Achievement

Upon successful completion of the Diesel Automotive Equipment Technician Certificate, the student demonstrates skills, knowledge, and training for entry-level employment for the following positions: technician for truck dealerships/repair shops, technician for truck fleet shops, technician for agricultural dealerships/repair

shops, technician for industrial engine dealers, and technician for marine engine repair facilities. The student demonstrates skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Program Learning Outcomes

Upon successful completion of the Diesel Automotive Equipment Technician certificate, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Bureau of Automotive Repair by the state of California (BAR) and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Core Requirements

Complete 42 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 091	Heavy Duty Brakes	3
DIESL 092	Heavy Duty Power Trains	3.5
DIESL 093	Heavy Duty Truck Components	3
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 098	Allison Transmission Service	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4
INDUS 094	Industrial Mathematics	3
WELDING 010	Basic Welding for the Trades	4

Restricted Electives

Complete 12 units selected from:

AUTOMECH 092	Brakes, Suspension, and Steering	6
AUTOMECH 095	Air Conditioning, Heating, and Electrical Systems	6
AUTOMECH 096B	Ignition Systems and Electronic Engine Controls	6
AUTOMECH 097	Automatic Transmissions and Transaxles	6

Minimum Units Required: 54

Complete all courses with a grade of "C" or better.

Diesel Equipment Technician, Certificate of Achievement

Upon successful completion of the Diesel Equipment Technician certificate, the student demonstrates skills, knowledge, and training for entry-level employment for the following positions: technician for truck dealerships/repair shops, technician for truck fleet shops, technician for agricultural dealerships/repair shops, technician for industrial engine dealers, and technician for marine engine repair facilities. The student demonstrates skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Program Learning Outcomes

Upon successful completion of the Diesel Equipment Technician Certificate, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Core Requirements

Complete 42 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 091	Heavy Duty Brakes	3
DIESL 092	Heavy Duty Power Trains	3.5
DIESL 093	Heavy Duty Truck Components	3
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 098	Allison Transmission Service	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4
INDUS 094	Industrial Mathematics	3
WELDING 010	Basic Welding for the Trades	4

Minimum Units Required: 42

Complete all courses with a grade of "C" or better.

Electrical Technology, Certificate of Achievement

Upon successful completion of the Electrical Technology certificate program, the student demonstrates skills in the electrical industry in the capacity of a beginning electrician, preferably as an indentured electrical apprentice where the students compare, contrast, and apply basic electrical theory and other major portions of the electrical field. Training and skills demonstrated by the student in this program are crucial to safe entry into electrical apprenticeships in the electrical field for programs like the IBEW's (International Brotherhood of Electrical Workers) Joint Apprenticeship Training Committee, WECA (Western Electrical Contractors Association) electrical apprenticeship, ABC program (another indentured electrical apprenticeship program).

Program Learning Outcomes

1. Students who successfully complete the Electrical Technology certificate program demonstrates knowledge for safe entry into electrical apprenticeships in the electrical field for programs like the IBEW's (International Brotherhood of Electrical Workers) Joint Apprenticeship Training Committee, WECA (Western Electrical Contractors Association) electrical apprenticeship, ABC program (another indentured electrical apprenticeship program).
2. Students who successfully complete the Electrical Technology certificate program demonstrate skills in the electrical industry in the capacity of a beginning electrician, preferably as an indentured electrical apprentice where the students compare, contrast, and apply basic electrical theory and other major portions of the electrical field.

Core Requirements

Complete 31 units

ELEC 030	Fundamentals of Electricity	5
ELEC 031	Electrical Wiring Methods	7
ELEC 034	Motor Controls	5
ELEC 076	Electrical Motors	5
ELEC 077	Industrial Wiring Methods	5
MATH 090	Beginning Algebra	4

Restricted Electives

Area A - Complete 4 units selected from:

INDUS 045	Industrial Technology	5
PHYS 010	Introduction to Physics	4

Area B - Complete 3 units selected from:

INDUS 031	Industrial Hydraulics	4
MECH 015	Machine Tool Process	3

Minimum Units Required: 38

Complete all courses with a grade of "C" or better.

Electrical Technology - Apprenticeship, Certificate of Achievement

Upon successful completion of the Electrical Technology Certificate - Apprenticeship Option, the student demonstrates the skills and knowledge of a Journey level electrician. The student applies electrical skills and knowledge to construct, repair, and troubleshoot electrical circuits, motors, motor controllers, and electrical systems. The training and skills acquired prepares the apprentice to be employed in the electrical field as a Journey level electrical worker for residential, commercial, and industrial electrical construction projects.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. Students will demonstrate the knowledge for safe entry into electrical apprenticeships in the electrical field for programs like the IBEW's (International Brotherhood of Electrical Workers) Joint Apprenticeship Training Committee, WECA (Western Electrical Contractors Association) electrical apprenticeship, ABC program (another indentured electrical apprenticeship program).
2. Students will apply the electrical skills and knowledge to construct, repair, and troubleshoot electrical circuits, motors, motor controllers, and electrical systems at a journeyman level.

Core Requirements

Complete 40 units

A-ELE 070A	Electrical Apprenticeship I	4
A-ELE 070B	Electrical Apprenticeship II	4
A-ELE 071A	Electrical Apprenticeship III	4
A-ELE 071B	Electrical Apprenticeship IV	4
A-ELE 072A	Electrical Apprenticeship V	4
A-ELE 072B	Electrical Apprenticeship VI	4
A-ELE 073A	Electrical Apprenticeship VII	4
A-ELE 073B	Electrical Apprenticeship VIII	4
A-ELE 074A	Electrical Apprenticeship IX	4
A-ELE 074B	Electrical Apprenticeship X	4

Minimum Units Required: 40

Complete all courses with a grade of "C" or better.

Electrical Technology - General Electrician Trainee, Certificate of Achievement

Upon successful completion of the Electrical Technology - General Electrician track of the Certificate of Achievement program, the student demonstrates knowledge and skills of the electrical industry in the capacity of a beginning electrician, preferably as an indentured electrical apprentice where the students compare, contrast, and apply basic electrical theory and other major portions of the electrical field. Training and skills demonstrated by the student in this program are crucial to safe entry into electrical apprenticeships and trainee positions in the electrical field. This program aligns with the required courses by the State of California in order to complete the General Electrician

Trainee coursework as a career pathway to becoming a Journeyman General Electrician in residential, commercial, and industrial construction and maintenance of electrical systems.

Program Learning Outcomes

1. Student demonstrates the skills, knowledge, and training for employment as an entry-level Electrician or Electrical Technician. The student demonstrates the understanding of electrical theory, AC/DC circuits, safety, code requirements, and components that make up the electrical distribution system.
2. Student demonstrates the knowledge of safety practices required for installations and repairs of electrical wiring.

Core Requirements

Complete 44 units

ELEC 030	Fundamentals of Electricity	5
ELEC 031	Electrical Wiring Methods	7
ELEC 034	Motor Controls	5
ELEC 037	Introduction to Programmable Logic Controllers	4
ELEC 041	Fire Alarms	2
ELEC 042	Security Alarms	2
ELEC 070	Electrical Codes I	3
ELEC 073	Construction Safety - OSHA	2
ELEC 076	Electrical Motors	5
ELEC 077	Industrial Wiring Methods	5
MATH 090	Beginning Algebra	4

Minimum Units Required: 44

Complete all courses with a grade of "C" or better.

Electron Microscopy - Biological, Certificate of Achievement

Upon successful completion, the student demonstrates skills, knowledge and training for employment as a microscopist to work with research scientists in industry, research laboratories, medical schools, hospitals, colleges and universities, as well as being qualified for technical sales and marketing for Electron Microscopy. The student demonstrates his or her ability to: use theory in hands-on work, specimen preparation, electron/ion/light/scanned probe microscope operation, digital imaging, routine maintenance of equipment, experimental design, and data interpretation. The student demonstrates skills, knowledge, and training in organization, team work, oral and written communication, problem solving, and critical thinking. The student demonstrates a variety of skills for employment in disciplines including the following: metallurgy, ceramics, computer and electronics industries, biology, environmental areas, biotechnology, geology, forensics, food and cosmetic industries, and medicine. Required Certificate Courses must be completed with at least a "C" grade.

Program Learning Outcomes

1. Students will learn safe laboratory practices.
2. Students will learn to communicate ideas to other scientists.

3. Students will learn to operate equipment needed to become an electron microscopist.
4. Students will be able to work together in teams to solve problems.
5. Students will learn the appropriate role of science in their lives.
6. Students will learn the structure of cells and tissues.

Core Requirements

Complete 56 units

BIOL 001	Core Biology	4
CHEM 003A	Introduction to Chemistry	4
E M 070	Introductory Techniques for Electron Microscopy	3
E M 071	Light Microscopy and Photography	3
E M 072B	Ultramicrotomy for Electron Microscopy	4.5
E M 074	Scanning Electron Microscopy	3
E M 075B	Biological Ultrastructure	2
E M 082B	Advanced Techniques in Biological Electron Microscopy	3.5
E M 084B	Biological Scanning Electron Microscopy	2
E M 087	Electron Microscopy Equipment Maintenance	3
E M 088	Current Microscopies	3
E M 089	Digital Imaging for Microscopy	2
E M 090	Advanced Projects in Electron Microscopy	2
MATH 038B	Precalculus II	4
MATH 090	Beginning Algebra	4
MATH 092S	Intermediate Algebra (STEM)	5
PHYS 010	Introduction to Physics	4

Equivalent courses may be accepted by transfer from other colleges but at least 12 units of the certificate must be completed at San Joaquin Delta College. Students who desire transfer credit for courses taken elsewhere must have the courses approved before taking them for certificate credit.

NOTE: It is recommended that during the summer, required core courses (Non-EM) be taken.

Minimum Units Required: 56

Complete all courses with a grade of "C" or better.

Electron Microscopy - Crystalline Material, Certificate of Achievement

Upon successful completion, the student demonstrates skills, knowledge and training for employment as a microscopist to work with research scientists in industry, research laboratories, medical schools, hospitals, colleges and universities, as well as being qualified for technical sales and marketing for Electron Microscopy. The student demonstrates his or her ability to: use theory in hands-on work, specimen preparation, electron/ion/light/scanned probe microscope operation, digital imaging, routine maintenance of equipment, experimental design, and data interpretation. The student demonstrates skills, knowledge, and training in organization, team work, oral and written communication, problem solving, and critical thinking.

The student demonstrates a variety of skills for employment in disciplines including the following: metallurgy, ceramics, computer and electronics industries, biology, environmental areas, biotechnology, geology, forensics, food and cosmetic industries, and medicine. Required Certificate Courses must be completed with at least a "C" grade.

Program Learning Outcomes

1. Students will demonstrate the ability to utilize safety protocols when working in a scientific laboratory.
2. Students will demonstrate the ability to handle, recognize and understand the microstructure of microscopic materials.
3. Students will demonstrate the ability to evaluate and trouble shoot microscope instrumentation and related equipment.
4. Students will demonstrate organizational skills, written and oral for the communication of scientific principles.
5. Students will demonstrate competency in the operation of microscopes that image microstructure of a wide range of materials.
6. Students will demonstrate the ability to prepare samples for the light, atomic and electron microscopes and ion beam instrumentation.

Core Requirements

Complete 53 units

CHEM 003A	Introduction to Chemistry	4
E M 070	Introductory Techniques for Electron Microscopy	3
E M 071	Light Microscopy and Photography	3
E M 073M	Introduction to Materials Electron Microscopy	4
E M 074	Scanning Electron Microscopy	3
E M 083M	Physical Electron Microscopy Laboratory	3
E M 085M	Analytical Scanning Electron Microscopy	3
E M 087	Electron Microscopy Equipment Maintenance	3
E M 088	Current Microscopies	3
E M 089	Digital Imaging for Microscopy	2
E M 090	Advanced Projects in Electron Microscopy	2
E TECH 020	Materials and Measurements	3
MATH 038B	Precalculus II	4
MATH 090	Beginning Algebra	4
MATH 092S	Intermediate Algebra (STEM)	5
PHYS 010	Introduction to Physics	4

Equivalent courses may be accepted by transfer from other colleges but at least 12 units of the certificate must be completed at San Joaquin Delta College. Students who desire transfer credit for courses taken elsewhere must have the courses approved before taking them for certificate credit.

NOTE: It is recommended that during the summer, required core courses (Non-EM) be taken.

Minimum Units Required: 53

Complete all courses with a grade of "C" or better.

Electronics Technology, Certificate of Achievement

The Electronics Technology Program provides students with theoretical background and practical experience in meeting the technical requirements of electronics and industrial technology. The course sequence is designed to meet the skill and training needs of employers and to prepare students for technical employment. Upon completion of courses, the student will be prepared to work in Consumer Electronics, Industrial Electronics, and with specialization in Digital Troubleshooting and Maintenance Automation and repair.

Program Learning Outcomes

Upon successful completion of the Electronics Technology Certificate the student will have demonstrated skills to operate electronic test equipment, diagnose malfunctions and electronic circuits, isolate and replace defective components, disassemble and reassemble complex electronic chassis. The International Electronics Technician Articulation Committee accredits the program. The program prepares the student for positions in the electronics industry such as electronics service technician, and industrial equipment repair technician.

Core Requirements

Complete 21 units

ELECT 011	AC and DC Network Analysis	4
ELECT 012	Solid State Devices	4
ELECT 013A	Digital Logic, Circuits, and Systems	4
ELECT 014B	Advanced Electronics Troubleshooting	2.5
ELECT 014C	Troubleshooting Computers	2.5
MATH 090	Beginning Algebra	4

Minimum Units Required: 21

Complete all courses with a grade of "C" or better.

Engineering Fundamentals, Certificate of Achievement

Upon successful completion of the Engineering Certificate, the student demonstrates skills, knowledge, and ability for transfer to a Bachelor's Degree program at a college or university, and the mathematical, scientific, and basic engineering theory courses required for upper division study in an engineering specific major. Delta College's program meets the lower division requirements established by the California Engineering Liaison Committee.

Program Learning Outcomes

1. The student demonstrates knowledge of the theory and application of mathematics, physics, and chemistry as applied in the engineering field.
2. The student demonstrates knowledge of the theory and application of the engineering design process, and is able to communicate the process in graphic and written format.

Core Requirements

Complete 53 units

CHEM 001A	General Chemistry	5
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CSP 031A	C++ Programming I	3
ENG 001A	Reading and Composition	3
ENGR 001	Introduction to Engineering and Technology	3
ENGR 002	Engineering Graphics	3
ENGR 004	Engineering Materials	4
ENGR 006	Engineering Circuit Analysis	4
ENGR 008	Statics	3
MATH 001	Calculus I	5
MATH 002	Calculus II	4
MATH 003	Multivariable Calculus	4
MATH 004	Differential Equations	4
PHYS 004A	Principles of Physics: Mechanics	4
PHYS 004C	Principles of Physics: Electricity and Magnetism	4

NOTE:

The courses listed above fulfill the recommended core of the Engineering Articulation Guideline for engineering transfer students as formulated by the statewide Engineering Liaison Council.

Completion of the above sequence of classes will meet the requirements necessary for admission to most four-year institutions.

Minimum Units Required: 53

Complete all courses with a grade of "C" or better.

Engineering - Computer-Aided Drafter, Certificate of Achievement

Upon successful completion of the Computer-Aided Drafter Certificate, the student demonstrates the skills, knowledge, and training for employment as an entry-level computer-aided drafting (CAD) technician. The student demonstrates his/her ability to construct drawings using typical two-dimensional and three-dimensional CAD hardware and software.

Program Learning Outcomes

1. Program completers are able to create industry standard mechanical and civil drawings of basic complexity.
2. Program completers demonstrate a basic understanding of the relationship between manufacturing technology, engineering measurements, and engineering design.

Core Requirements

Complete 15 units

E TECH 011	Engineering Drafting	3
E TECH 012	Computer-Aided Drafting	3
E TECH 022	Three Dimensional Modeling	3
E TECH 031	Fundamentals of Civil Drafting	3
ENGR 001	Introduction to Engineering and Technology	3

Restricted Electives

Complete 3 units selected from:

E TECH 080	Applied Surveying	3
MECH 015	Machine Tool Process	3

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Engineering Technology, Certificate of Achievement

Upon successful completion of the Engineering Technology Certificate, the student demonstrates skills, knowledge, and training for employment as an engineering aide; computer aided drafter, designer, engineering technician, or other technical support position in the field of engineering. The student demonstrates his or her ability to document designs with appropriate technical drawings, perform and record engineering tests, and develop solutions for common engineering problems.

Program Learning Outcomes

1. Program completers demonstrate an understanding of the relationships between manufacturing technology, engineering materials and components, engineering measurements, engineering analysis, and engineering design.
2. Program completers are able to create industry standard mechanical and civil drawings of advanced complexity.

Core Requirements

Complete 34 units

E TECH 011	Engineering Drafting	3
E TECH 012	Computer-Aided Drafting	3
E TECH 020	Materials and Measurements	3
E TECH 022	Three Dimensional Modeling	3
E TECH 031	Fundamentals of Civil Drafting	3
E TECH 034	Machine Drafting	3
E TECH 041	Civil Drafting: Site Design and Improvement	4
E TECH 046	Mechanical and Electrical Systems	3
E TECH 047	Introduction to Industrial Control Systems	3
E TECH 078	Applied Statics & Strength of Materials	3
ENGR 001	Introduction to Engineering and Technology	3

Restricted Electives

Complete 3 units selected from:

E TECH 080	Applied Surveying	3
MECH 015	Machine Tool Process	3

Minimum Units Required: 37

Complete all courses with a grade of "C" or better.

Entrepreneurship, Certificate of Achievement**PENDING APPROVAL**

The Entrepreneurship certificate prepares students to launch a new business. The focus is on developing the entrepreneurial mindset, identifying and evaluating business opportunities, pitching the business idea, and developing a business plan.

Program Learning Outcomes

1. Students will apply marketing, sales, advertising and customer service strategies to launch successful businesses.

- The student will demonstrate the understanding of basic bookkeeping as well as the area of risk management.
- The student will demonstrate the knowledge needed to create and effectively pitch the business plan to prospective lenders and investors.

Core Requirements

Complete 12 units

BUS 010A	Bookkeeping	3
BUS 028	Entrepreneurial Mindset	3
BUS 029	Introduction to Entrepreneurship	3
BUS 060	Small Business Management	3

Restricted Electives

Complete 6 units selected from:

BUS 021	Marketing	3
BUS 022	Professional Selling	3
BUS 089	Quickbooks	2
BUS 094A	Small Business Start Up	1
BUS 094B	Essential Topics for Small Business	1
BUS 094C	The New Entrepreneur	1
BUS 094D	The Law and the Small Business	1
BUS 094E	Marketing and Advertising Strategies for Small Business	1
BUS 094F	Customer Service Strategies	1

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Fluid Power and Automation Technology, Certificate of Achievement

Upon successful completion of the Fluid Power and Automation certificate, the student demonstrates skills, knowledge and training for employment in the following fluid power industry positions: fluid power mechanic, fluid power technician, and salesperson in fluid power industry. The student demonstrates his or her ability to apply knowledge of physics and mathematics in solving applied fluid power problems; plan and install complex fluid power systems; maintain, troubleshoot, and repair control systems using proper tools and procedures; and select, compile, and use technical information from reference materials. The student demonstrates the skills, knowledge and training to take the Fluid Power Society certification exams for fluid power mechanics, technicians, and specialists. This program is accredited by the Fluid Power Education Foundation (FPEF).

Program Learning Outcomes

- The student will analyze a potential fluid power application and select proper components used to fabricate the fluid power system.

Core Requirements

Complete 14 units

INDUS 031	Industrial Hydraulics	4
INDUS 035	Mobile Hydraulics	4
INDUS 094	Industrial Mathematics	3
MECH 015	Machine Tool Process	3

Restricted Electives

Complete 4 units selected from:

ELEC 030	Fundamentals of Electricity	5
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ELECT 011	AC and DC Network Analysis	4
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Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

General Office, Certificate of Achievement

Upon successful completion of the General Office Certificate, the student demonstrates skills, knowledge, and training for employment in private industry, non-profit organizations, and government offices for the following positions: General Office Clerk, Office Assistant, Office Clerk, Receptionist, or Information Clerk. The student demonstrates his or her ability to: answer the telephone effectively; utilize customer service skill; open, sort and distribute incoming mail and prepare outgoing mail; keyboard documents; address envelopes and labels; file correspondence and documents; use a fax and copy machine.

Program Learning Outcomes

- Program completers will demonstrate the ability to produce and format business documents using Microsoft Word or industry accepted word processing software.
- Program completers will demonstrate the ability to use an electronic calculator to solve basic mathematical concepts common in business.

Core Requirements

Complete 12 units

BIM 038	Office Technologies and Procedures	3
BIM 081	Records Management and Filing	3
BUS 007	Business Communications	3
BUS 017	Business English	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 7 units selected from:

BUS 015	Excel Spreadsheets	3
GUID 033	Job Seeking Skills	1
COM ST 001A	Public Speaking	3
or		
COM ST 003	Interpersonal Communication	3
or		
COM ST 007	Intercultural Communication	3

Minimum Units Required: 22

Complete all courses with a grade of "C" or better.

Heating and Air Conditioning, Certificate of Achievement

Upon successful completion of the Heating and Air Conditioning Certificate, the student demonstrates the skills, knowledge and training to service and repair heating and air conditioning equipment. The student demonstrates his or her ability to mechanically and electrically troubleshoot problems typically encountered in the industry and to pass the Environmental Protection Agency (EPA) refrigerant recovery exam for their certification.

Program Learning Outcomes

Upon successful completion of the Heating and Air Conditioning Certificate, the student demonstrates the skills, knowledge and training to service and repair heating and air conditioning equipment. The student demonstrates his or her ability to mechanically and electrically troubleshoot problems typically encountered in the industry and to pass the EPA refrigerant recovery exam for their certification.

Core Requirements

Complete 34 units

HVACR 070A	Refrigeration and Air Conditioning	2.5
HVACR 070B	Intermediate Refrigeration	2.5
HVACR 071A	Air Conditioning Components and Circuits	6
HVACR 071B	Air Conditioning Troubleshooting	6
HVACR 071C	Air Conditioning Systems and Heat Pumps	6
HVACR 072A	Intro to Residential Gas Heating	2.5
HVACR 072B	Commercial Gas Heating Devices	2.5
INDUS 020	Industrial Safety and Health	3
INDUS 094	Industrial Mathematics	3

Restricted Electives

Area A - Complete 5 units selected from:

ELEC 030	Fundamentals of Electricity	5
HVACR 071D	Commercial Air Conditioning Design and Operation	6

Area B - Complete 4 units selected from:

MECH 081	Metal Trade Layout and Forming	5
WELDING 010	Basic Welding for the Trades	4

Minimum Units Required: 43

Complete all courses with a grade of "C" or better.

Heavy Equipment Mechanic, Certificate of Achievement

Upon successful completion of the Heavy Equipment Mechanic certificate, the student demonstrates skills, knowledge, and training for entry-level employment for the following positions: technician for heavy equipment dealerships, technician for heavy equipment repair facilities, technician for agricultural dealerships/repair shops, and technician for industrial engine dealers. The student demonstrates skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Program Learning Outcomes

Upon successful completion of the Heavy Equipment Mechanic Certificate of Achievement, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air

Conditioning Certification by Society of Automotive Engineers (SAE).

Core Requirements

Complete 23.5 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4

Minimum Units Required: 23.5

Complete all courses with a grade of "C" or better.

Heavy Equipment Technician, Certificate of Achievement

Upon successful completion of the Heavy Equipment Technician certificate, the student demonstrates skills, knowledge, and training for entry-level employment for the following positions: technician for heavy equipment dealerships, technician for heavy equipment repair facilities, technician for agricultural dealerships/repair shops, and technician for industrial engine dealers. The student demonstrates skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Program Learning Outcomes

Upon successful completion of the Heavy Equipment Technician certificate, 70 percent of the program students will demonstrate the necessary skills to receive state and national certification in two areas: Heavy Duty Diesel Engine Emissions Control by the state of California Air Resource Board (ARB); and Air Conditioning Certification by Society of Automotive Engineers (SAE).

Core Requirements

Complete 27.5 units

AGEGR 030C	Industrial Equipment: Electrical and Electronic Systems	5
DIESL 094	Diesel Engine Principles	3
DIESL 095	Diesel Engine Repair	4.5
DIESL 096	Diesel Engine Fuel and Tune-Up	3
DIESL 097	Diesel Air Conditioning	2
DIESL 099	Computer Diagnosis and Troubleshooting	2
INDUS 035	Mobile Hydraulics	4
WELDING 010	Basic Welding for the Trades	4

Restricted Electives

Complete 3 units selected from:

INDUS 094	Industrial Mathematics	3
Associate Degree Mathematics Requirement		

Minimum Units Required: 30.5

Complete all courses with a grade of "C" or better.

Industrial Technology, Certificate of Achievement

The student will demonstrate the ability to understand, diagnose and repair industrial systems such as refrigeration and air conditioning, hydraulics, and electrical systems. The program prepares the student for positions in the manufacturing and processing industries such as industrial equipment repair technician.

Program Learning Outcomes

Upon successful completion of the Industrial Technology certificate the student demonstrates skills, knowledge, and management of industrial controls, processes and systems. The scope of training includes the installation, repair, maintenance, and management of industrial plant operations in the manufacturing, food processing and automated facilities.

Core Requirements

Complete 13.5 units

HVACR 070A	Refrigeration and Air Conditioning	2.5
INDUS 031	Industrial Hydraulics	4
MECH 015	Machine Tool Process	3
WELDING 010	Basic Welding for the Trades	4

Restricted Electives

Area A - Complete 4 units selected from:

ELEC 030	Fundamentals of Electricity	5
ELECT 011	AC and DC Network Analysis	4

Area B - Complete 3 units selected from:

INDUS 094	Industrial Mathematics	3
MATH 090	Beginning Algebra	4

Area C - Complete 2 courses selected from:

HVACR 071A	Air Conditioning Components and Circuits	6
HVACR 072A	Intro to Residential Gas Heating	2.5
INDUS 020	Industrial Safety and Health	3
MECH 081	Metal Trade Layout and Forming	5

Minimum Units Required: 26

Complete all courses with a grade of "C" or better.

Industrial Technology - Electrical Apprenticeship, Certificate of Achievement

Upon successful completion of the Industrial Technology - Electrical Apprenticeship Option, the apprentice demonstrates skills, knowledge, and training to work in electrical maintenance at a hydroelectric plant facility. The apprentice demonstrates proficiency in the installation, repair, maintenance and troubleshooting of electrical circuits, electrical equipment pumps and generators. The program is offered as part of the State Department of Water Resources Joint Apprenticeship Committee and the State Division of Apprenticeship Standards. The apprentice receives a State Journey-level Certificate upon successful completion of the program.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. The apprentice demonstrates proficiency in the installation, repair, maintenance and troubleshooting of electrical circuits, electrical equipment pumps and generators.

Core Requirements

Complete 36 units

A-ELE 075A	Basic Electricity	2
A-ELE 075B	Advanced Electricity	2
A-ELE 075C	Transformers and Polychlorinated Biphenyl	2
A-ELE 075D	Protective Relaying	2
A-ELE 075E	High Voltage Switching	2
A-ELE 075F	Electrical Motors and Controls	2
A-IND 072A	Introduction to Apprenticeship	2
A-IND 076	Applied Technical Mathematics	2
A-IND 077A	Mechanical Fundamentals	2
A-IND 077B	Bearings, Pumps, and Turbines	2
A-IND 077C	Motors and Generators	2
A-IND 077D	Plant Auxiliary Equipment	2
A-IND 077G	Governor Systems	2
A-IND 077H	Computers in Hydro-Electric Plants	2
A-IND 077K	Fundamentals of Thermodynamics	2
A-IND 077L	Project Control and Power Contracts	2
A-IND 077M	Air Conditioning	2
A-IND 077N	Electro-Mechanical Print Reading	2

Minimum Units Required: 36

Complete all courses with a grade of "C" or better.

Industrial Technology - Maintenance Apprenticeship, Certificate of Achievement

Upon successful completion of the Industrial Technology - Maintenance Apprenticeship, the apprentice demonstrates skills, knowledge, and training to work in building and aqueduct maintenance at a hydroelectric plant facility. The apprentice demonstrates proficiency in the installation, repair and maintenance of plant facility and aqueducts, including the use of heavy equipment, concrete, food control systems, protective coatings, tractor operations, trenching and earthwork. The program is offered as part of the State Department of Water Resources Joint Apprenticeship Committee and the State Division of Apprenticeship Standards. The apprentice receives a State Journey-level Certificate upon successful completion of the program.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. The apprentice demonstrates proficiency in the installation, repair and maintenance of plant facility and aqueducts, including the use of heavy

equipment, concrete, food control systems, protective coatings, tractor operations, trenching and earthwork.

Core Requirements

Complete 40 units

A-ELE 075A	Basic Electricity	2
A-ELE 075B	Advanced Electricity	2
A-IND 072A	Introduction to Apprenticeship	2
A-IND 076	Applied Technical Mathematics	2
A-IND 077E	Hydraulics	2
A-IND 077H	Computers in Hydro-Electric Plants	2
A-IND 077L	Project Control and Power Contracts	2
A-IND 078A	Defensive Driving	1
A-IND 078B	Heavy Truck Operation	1
A-IND 078C	Diesel and Small Gasoline Engines	2
A-IND 078D	Surveying and Flood Control Systems	2
A-IND 078E	Soils, Asphalt, and Concrete	2
A-IND 078F	Environmental Awareness	1
A-IND 078G	Power Lift and Four-Wheel Drive Units	2
A-IND 078J	Small Boat Handling	2
A-IND 078K	Mobile Cranes and Rigging	2
A-IND 078L	Motor Grader Operation	2
A-IND 078M	Tractor Operations, Trenching, and Shoring	2
A-IND 078N	Pesticides and Herbicides	2
A-IND 078P	Power Actuated Equipment	1
A-MEC 074A	Basic Welding	2
A-MEC 074B	Machine Shop	2

Minimum Units Required: 40

Complete all courses with a grade of "C" or better.

Industrial Technology - Mechanical Apprenticeship, Certificate of Achievement

Upon successful completion of the Industrial Technology - Mechanical Apprenticeship Option, the apprentice demonstrates skills, knowledge, and training to work in mechanical maintenance at a hydroelectric plant facility. The apprentice demonstrates proficiency in the installation, repair, maintenance and troubleshooting of mechanical systems including compressors, pumps, hydraulic/pneumatic systems, and plant auxiliary equipment. The program is offered as part of the State Department of Water Resources Joint Apprenticeship Committee and the State Division of Apprenticeship Standards. The apprentice receives a State Journey-level Certificate upon successful completion of the program.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. The apprentice demonstrates proficiency in the installation, repair, maintenance and troubleshooting of mechanical systems including compressors,

pumps, hydraulic/pneumatic systems, and plant auxiliary equipment.

Core Requirements

Complete 34 units

A-ELE 075A	Basic Electricity	2
A-ELE 075C	Transformers and Polychlorinated Biphenyl	2
A-IND 072A	Introduction to Apprenticeship	2
A-IND 076	Applied Technical Mathematics	2
A-IND 077A	Mechanical Fundamentals	2
A-IND 077B	Bearings, Pumps, and Turbines	2
A-IND 077D	Plant Auxiliary Equipment	2
A-IND 077E	Hydraulics	2
A-IND 077F	Pneumatics	2
A-IND 077G	Governor Systems	2
A-IND 077H	Computers in Hydro-Electric Plants	2
A-IND 077K	Fundamentals of Thermodynamics	2
A-IND 077L	Project Control and Power Contracts	2
A-IND 077M	Air Conditioning	2
A-IND 077N	Electro-Mechanical Print Reading	2
A-MEC 074A	Basic Welding	2
A-MEC 074B	Machine Shop	2

Minimum Units Required: 34

Complete all courses with a grade of "C" or better.

Industrial Technology - Operations Apprenticeship, Certificate of Achievement

Upon successful completion of the Industrial Technology - Operations Apprenticeship Option certificate, the student demonstrates skills, knowledge, and training to work in plant operations at a hydroelectric plant facility. The apprentice demonstrates the proficiency in the operation of a hydroelectric plant controlling pumps, electrical generators, aqueduct system and the total plant operating systems. The program is offered as part of the State Department of Water Resources Joint Apprenticeship Committee and the State Division of Apprenticeship Standards. The apprentice receives a State Journey-level Certificate upon successful completion of the program.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. The apprentice demonstrates the proficiency in the operation of a hydroelectric plant controlling pumps, electrical generators, aqueduct system and the total plant operating systems.

Core Requirements

Complete 34 units

A-ELE 075A	Basic Electricity	2
A-ELE 075B	Advanced Electricity	2
A-ELE 075C	Transformers and Polychlorinated Biphenyl	2
A-ELE 075D	Protective Relaying	2

A-ELE 075E	High Voltage Switching	2
A-IND 072A	Introduction to Apprenticeship	2
A-IND 076	Applied Technical Mathematics	2
A-IND 077A	Mechanical Fundamentals	2
A-IND 077B	Bearings, Pumps, and Turbines	2
A-IND 077C	Motors and Generators	2
A-IND 077D	Plant Auxiliary Equipment	2
A-IND 077G	Governor Systems	2
A-IND 077H	Computers in Hydro-Electric Plants	2
A-IND 077J	Water Aqueduct Systems	2
A-IND 077K	Fundamentals of Thermodynamics	2
A-IND 077L	Project Control and Power Contracts	2
A-IND 077N	Electro-Mechanical Print Reading	2

Minimum Units Required: 34

Complete all courses with a grade of "C" or better.

International Business, Certificate of Achievement

Upon successful completion of the International Business Certificate program, the student demonstrates the skills, knowledge, and training for entry-level positions as a import/export clerk or to incorporate the global business perspective in to their current assignment. The student's skills will include the ability to analyze global business opportunities as well as interact with others from different cultures. Individuals are able to prepare basic international shipping documents as well as have the sensitivities to understand the issues that are involved in a global business operation.

Program Learning Outcomes

1. Students will analyze global business opportunities.
2. Students will compare and contrast the role that culture plays in global business operations.
3. Students will describe and prepare international shipping documents.

Core Requirements

Complete 9 units

BUS 009	Ethical Issues in Business	3
BUS 055	International Business	3
GEOG 010	World Regional Geography	3

Restricted Electives

Complete 3 units selected from:

BUS 050H	Special Studies: Multidisciplinary	0.5-4
BUS 056	Transportation: Export and Import	3
COM ST 007	Intercultural Communication	2

Minimum Units Required: 12

Complete all courses with a grade of "C" or better.

Logistics and Transportation Supervisor, Certificate of Achievement

Upon successful completion of the Logistics and Transportation Supervisor Certificate program, the student demonstrates the skills, knowledge, and training for positions such as traffic coordinator, dispatcher, freight billing clerk, warehouse control clerk, shipping supervisor, telemarketing and freight salesperson; including training in specialized areas of the transportation and distribution industries including the modes, means, regulations, documentation, and rates of the relevant transportation system, transportation of hazardous materials; physical distribution and warehousing; and details relevant to importing and exporting of goods.

Program Learning Outcomes

1. Demonstrate knowledge of contemporary industry information technology systems, and the interpretation of data from spreadsheets.
2. Demonstrate knowledge of the physical distribution and warehousing of goods and materials.
3. Ability to explain and complete the forms associated with importing and exporting goods to foreign countries.
4. Demonstrate knowledge of terms, regulations and practices for Transportation professionals in California.
5. Demonstrate skills, knowledge, and training for positions such as traffic coordinator, dispatcher, freight billing clerk, warehouse control clerk, shipping supervisor, telemarketing and freight salesperson; including training in specialized areas of the transportation and distribution industries including the modes, means, regulations, documentation, and rates of the relevant transportation system, transportation of hazardous materials; physical distribution and warehousing; and details relevant to importing and exporting of goods.

Core Requirement

Complete 13.5 units

BUS 030	Supervision and Human Relations	3
BUS 051	Introduction to Transportation	1.5
BUS 052	Supply Chain Logistics and Operations	3
BUS 056	Transportation: Export and Import	3
BUS 057	Introduction to Logistics	3

Restricted Electives

Area A - Complete 3 units selected from:

CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3

Area B - Complete 6 units selected from:

BIM 039	Office Management	3
BUS 017	Business English	3
BUS 020	Introduction to Business	3
BUS 021	Marketing	3
BUS 031	Introduction to Management	3

MATH 077A Business Mathematics 3
or higher level
math course

Minimum Units Required: 22.5

Complete all courses with a grade of "C" or better.

Machinist: Entry-Level, Certificate of Achievement

Upon successful completion of the Machinist-Entry Level certificate, the student will demonstrate skills, knowledge and training for entry-level positions in a variety of industries including machine shops, metal fabrication shops, tool and die shops, mold shops, industrial maintenance or millwright positions, and apprenticeships in these fields. The student will demonstrate the safe and proper operation of lathe, milling machine, grinding machines, drilling and sawing machines, and other common shop tools. The student will demonstrate his or her ability to apply mathematics, problem solving skills, and machining techniques to the fabrication process.

Program Learning Outcomes

1. Apply mathematics concepts to solve machining problems such as calculating machining feed rates and spindle speeds.
2. Use precision measurement tools to inspect work.
3. Use basic layout techniques to create parts for metal fabrication.
4. Safely setup and run manual machine tool equipment.
5. Students will be able to join metals with welding processes.
6. Convert graphical information found in engineering drawings into fabricated metal parts.

Core Requirements

Complete 24 units

MATH 076	Review of Arithmetic	3
MECH 070A	Elementary Machine Shop I	3
MECH 070B	Elementary Machine Shop II	3
MECH 073A	Machine Shop I	3
MECH 073B	Machine Shop II	3
MECH 081	Metal Trade Layout and Forming	5
WELDING 010	Basic Welding for the Trades	4

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Medical Office Assistant, Certificate of Achievement

Upon successful completion of the Medical Office Assistant Certificate program, the student demonstrates the skills, knowledge and training for entry-level employment in medical front-office positions, such as a medical office bookkeeper, medical records file clerk, appointment clerk, insurance coordinator or billing clerk and medical office receptionist. Individuals are able to demonstrate knowledge of medical technology, bookkeeping and records management as well as the ability to work with patients effectively in scheduling appointments and collecting payments.

Program Learning Outcomes

1. Program completers will demonstrate knowledge and use of keyboarding and/or computer applications used in the business segment of a medical office setting.
2. Program completers will assemble an Office Procedures Manual or a Professional Portfolio reflecting direct evidence of office procedures and/or computer applications used in a medical front office environment.

Core Requirements

Complete 16 units

BIM 001A	Beginning Keyboarding	1
BIM 038	Office Technologies and Procedures	3
BIM 081	Records Management and Filing	3
BUS 010A	Bookkeeping	3
CSA 020	Computer Information Systems Applications	3
H S 036	Medical Terminology and Speech	3

Minimum Units Required: 16

Complete all courses with a grade of "C" or better.

Merchandising, Certificate of Achievement

Upon successful completion of the Merchandising Certificate program, the student demonstrates skills, knowledge and training for retail salespersons positions. The student demonstrates skills to motivate the customer to make a purchase, assess what a customer wants or needs, match the wants and needs to the available merchandise, complete sales-related documents, handle returns and exchanges, stock shelves and take inventory, and prepare displays.

Program Learning Outcomes

1. Program completers will utilize concepts of legal and ethical responsibilities of merchandising as well as accounting and bookkeeping.
2. Program completers will analyze current and future dimensions of retailing including traditional retail, non-store retail, and international expansion.
3. Program completers will explain the role of mission statements, policies, procedures, rules, and job descriptions within an organization and how they influence the responsibilities of merchandisers.
4. Program completers will analyze business strategies used in the merchandising. Business strategies include marketing, advertising, distribution control, and sales.
5. Program completers will utilize the vocabulary of merchandising appropriately.

Core Requirements

Complete 12 units

BUS 020	Introduction to Business	3
BUS 021	Marketing	3
BUS 022	Professional Selling	3
BUS 023	Advertising	3

Restricted Electives

Complete 9 units selected from:

BUS 001A	Principles of Accounting	5
or		
BUS 010A	Bookkeeping	3
BUS 008	Introduction to The American Legal System	3
or		
BUS 018A	Business Law	3
or		
BUS 018B	Business Law	3
or		
BUS 019	Legal Environment of Business	3
BUS 009	Ethical Issues in Business	3
BUS 024	Retail Management	3
BUS 026	Economics of Business	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3
FASHION 002	Introduction to the Fashion Industry	3
or		
FASHION 024	Visual Merchandising/Store Design I	3

Minimum Units Required: 21

Complete all courses with a grade of "C" or better.

Municipal Clerk, Certificate of Achievement

Upon successful completion of the Municipal Clerk Certificate, the student will be prepared for careers as a City Clerk, support staff in the office of the city clerk, or other similar public administration positions. The duties of a Municipal Clerk requires knowledge of public relations, organizational behavior, management, public administration, legislative procedures, meeting preparation and keeping of official minutes, elections planning and procedures, processing of annexations and vacations, license and permit processing, projects and capital improvements approvals, contracts and deeds processing, and records management. This program provides training in all of these areas.

Program Learning Outcomes

Upon successful completion of the Municipal Clerk Certificate, the student will be prepared for careers as a City Clerk, support staff in the office of the city clerk, or other similar public administration positions. The duties of a Municipal Clerk requires knowledge of public relations, organizational behavior, management, public administration, legislative procedures, meeting preparation and keeping of official minutes, elections planning and procedures, processing of annexations and vacations, license and permit processing, projects and capital improvements approvals, contracts and deeds processing, and records management. This program provides training in all of these areas.

Core Requirements

Complete 32 units

BIM 043	Records Management in Public Agencies	3
BUS 001A	Principles of Accounting	5
BUS 017	Business English	3
BUS 031	Introduction to Management	3

BUS 033	Introduction to Public Administration	3
BUS 034	Introduction to Municipal Clerkship	3
BUS 037	Human Behavior in Organizations	3
CS 011	Fundamentals of Computer Science	3
ENG 001A	Reading and Composition	3
ENG 001D	Advanced Composition and Critical Thinking	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 030	Supervision and Human Relations	3
BUS 036	Human Resources Management	3

Area B - Complete 3 units selected from:

BUS 007	Business Communications	3
POLSC 001	American Government and Institutions	3

Minimum Units Required: 38

Complete all courses with a grade of "C" or better.

Office Assistant, Certificate of Achievement

Upon successful completion of the Office Assistant Certificate, the student demonstrates skills, knowledge, and training for employment in office related positions similar to Office Assistant, Clerk, or Receptionist. The student demonstrates his or her ability to perform a broad range of administrative office responsibilities, such as answer telephones effectively, open, sort, and distribute incoming mail and prepare outgoing mail, keyboard and produce mailable documents, prepare basic spreadsheets, perform basic filing tasks, send e-mail messages and faxes, and operate a copier.

Program Learning Outcomes

1. Program completers will demonstrate the ability to use keyboarding and computer software applications in a business environment.
2. Program completers will demonstrate the ability to analyze customer service issues in an office environment, and identify appropriate problem solving techniques.

Core Requirements

Complete 12 units

BIM 001A	Beginning Keyboarding	1
BIM 001B	Intermediate Keyboarding and Document Processing	2
BIM 038	Office Technologies and Procedures	3
BUS 017	Business English	3
CSA 020	Computer Information Systems Applications	3

Minimum Units Required: 12

Complete all courses with a grade of "C" or better.

Office Management, Certificate of Achievement

Upon successful completion of the Office Management Certificate, the student demonstrates skills, knowledge, and training for employment available in private industry, non-profit organization, and government office for the following positions: Office Manager, Administrative Office Manager, Customer Service Manager, and Administrative Office Professional. The student demonstrates his or her ability to: supervise and train employees; develop and maintain office procedures; organize and coordinate work efficiently and set priorities; research and work on projects; communicate effectively orally and in writing.

Program Learning Outcomes

1. Program completers will demonstrate the ability to format memorandums, letters, e-mails, and other business documents to communicate effectively in writing in an office environment.
2. Program completers will assemble an Office Procedures Manual or a Professional Portfolio reflecting direct evidence of office and/or management procedures used in a business environment.

Core Requirements

Complete 21 units

BIM 038	Office Technologies and Procedures	3
BIM 039	Office Management	3
BIM 081	Records Management and Filing	3
BUS 007	Business Communications	3
BUS 017	Business English	3
BUS 020	Introduction to Business	3
CSA 035	Multimedia Presentations	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area B - Complete 6 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 015	Excel Spreadsheets	3
BUS 030	Supervision and Human Relations	3
COM ST 001A	Public Speaking	3
CSA 020	Computer Information Systems Applications	3
GUID 033	Job Seeking Skills	1

Minimum Units Required: 30

Complete all courses with a grade of "C" or better.

Real Estate, Certificate of Achievement

Upon successful completion of the Real Estate Certificate, the student demonstrates skills, knowledge, and training for entry-level positions such as real estate sales associates, property management, real estate appraisal, or assistants in real estate offices. The student demonstrates his or her ability to: perform the essential services necessary for the buyers and sellers of real property thereby providing for the orderly transfer of property such as helping buyers finding property that

meets their needs and financial resources; obtain property listings; make preliminary estimates, anticipate prospective buyers' questions; prepare a purchase agreement; work with title or escrow companies, lenders, home inspectors, and pest control operators to facilitate the completion of the transaction; meet requirements for state licensure as a salesperson or broker. The student who specializes in property management demonstrates skills, knowledge, and training to oversee the day-to-day management of income-producing commercial and residential properties and manage the common property of condominium associations. The student who specializes in real estate appraisal demonstrates the skills, knowledge, and training to compute estimates of value of real property which are required when property is bought, sold, assessed, taxed, condemned, insured, or mortgaged.

NOTE: Please refer to the California Department of Real Estate web site for licensing information.
(<http://www.dre.ca.gov/>)

Program Learning Outcomes

1. Demonstrate knowledge in business, mathematics, accounting, law, construction, and/or computer software.
2. Demonstrate knowledge of appraisal and financing options and rules for real estate transactions.
3. Demonstrate knowledge of property management principles and regulations.
4. Demonstrate knowledge of economic factors affecting real estate transactions and trends.
5. Able to explain and complete the forms associated with a real estate transaction.
6. Demonstrate knowledge of terms, regulations and practices for Real Estate professionals in California.

Core Requirements

Complete 15 units

BUS 040	Real Estate Principles	3
BUS 041	Real Estate Practice	3
BUS 042	Real Estate Finance	3
BUS 043	Legal Aspects of Real Estate	3
BUS 046	Property Management	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 026	Economics of Business	3
BUS 045	Real Estate Economics	3

Area B - Complete 6 units selected from:

BUS 001A	Principles of Accounting	5
or		
BUS 003	Financial Accounting	5
or		
BUS 010A	Bookkeeping	3
BUS 008	Introduction to The American Legal System	3
or		
BUS 018A	Business Law	3
or		
BUS 018B	Business Law	3
or		
BUS 019	Legal Environment of Business	3
BUS 022	Professional Selling	3
BUS 023	Advertising	3
CSA 020	Computer Information Systems Applications	3
MATH 077A	Business Mathematics	3
and		
MATH 077B	Business Mathematics	3

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Refrigeration, Certificate of Achievement

Upon successful completion of the Refrigeration Certificate, the student demonstrates skills, knowledge, and training for employment in the refrigeration industry. The student demonstrates his or her ability to work in maintenance departments, cold storage facilities, school districts, and for private contractors. The student demonstrates sufficient experience to recover, evacuate and charge simple refrigeration systems and pass an Environmental Protection Agency (EPA) test to work in the refrigeration industry.

Program Learning Outcomes

1. Student will be able to design, install, service, maintain and troubleshoot residential and commercial HVAC systems.
2. Student will be able to communicate with customers in a professional manner.

Core Requirements

Complete 22 units

HVACR 070A	Refrigeration and Air Conditioning	2.5
HVACR 070B	Intermediate Refrigeration	2.5
HVACR 071A	Air Conditioning Components and Circuits	6
HVACR 071B	Air Conditioning Troubleshooting	6
HVACR 072A	Intro to Residential Gas Heating	2.5
HVACR 072B	Commercial Gas Heating Devices	2.5

Restricted Electives

Area A - Complete 4 units selected from:

ELEC 030	Fundamentals of Electricity	5
ELECT 011	AC and DC Network Analysis	4
HVACR 071C	Air Conditioning Systems and Heat Pumps	6

Area B - Complete 4 units selected from:

MECH 081	Metal Trade Layout and Forming	5
WELDING 010	Basic Welding for the Trades	4

Minimum Units Required: 30

Complete all courses with a grade of "C" or better.

Retail Management, Certificate of Achievement

Upon successful completion of the Retail Management Certificate program, the student demonstrates skills, knowledge, and training for positions such as, first-line supervisors and managers in retail businesses. The student demonstrates his or her knowledge in the fundamentals of how to plan and direct the work of the organization, set policy, establish channels of communication, and evaluate the work that is done (in stores that specialize in selling a specific line of merchandise). The student demonstrates his or her ability to foster positive relationships, increase job satisfaction and ensure that customer or client needs are met; define company goals; apply relevant federal and state laws and union contracts; recognize and evaluate industry trends; plan advertising campaigns and sales promotions; hire and train personnel; control inventories; draft budgets; and recommend, establish, or implement store procedures and policies.

Program Learning Outcomes

Upon successful completion of the Retail Management Certificate program, the student demonstrates skills, knowledge, and training for positions such as, first-line supervisors and managers in retail businesses. The student demonstrates his or her knowledge in the fundamentals of how to plan and direct the work of the organization, set policy, establish channels of communication, and evaluate the work that is done (in stores that specialize in selling a specific line of merchandise). The student demonstrates his or her ability to foster positive relationships, increase job satisfaction and ensure that customer or client needs are met; define company goals; apply relevant federal and state laws and union contracts; recognize and evaluate industry trends; plan advertising campaigns and sales promotions; hire and train personnel; control inventories; draft budgets; and recommend, establish, or implement store procedures and policies.

Core Requirements

Complete 27 units

BUS 017	Business English	3
BUS 021	Marketing	3
BUS 024	Retail Management	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3
BUS 036	Human Resources Management	3
COM ST 006/	Business and Professional Communication	3
BUS 006	Computer Information Systems Applications	3
CSA 020	Computer Information Systems Applications	3
MATH 077A	Business Mathematics	3

Restricted Electives

Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Minimum Units Required: 30

Complete all courses with a grade of "C" or better.

Small Business, Certificate of Achievement**PENDING APPROVAL**

Upon successful completion of the Small Business certificate program the student demonstrates the skills, knowledge, and training for positions as a small business owner or assistant in a small business enterprise; and the skills necessary to start up and maintain a small business. Individuals also demonstrate the ability to prepare a business plan, analyze the funding required to start a business, develop a marketing plan, set up an elementary bookkeeping system, and articulate some of the legal issues facing small businesses today.

Program Learning Outcomes

1. Program completers will demonstrate knowledge of various risk management systems, loss prevention and insurance needed for small business owners.
2. Program completers will demonstrate knowledge of marketing, personal selling, advertising and customer service strategies used in the operation of a small business.
3. Program completers will articulate legal issues facing small business owners as well as define the various legal structures including sole proprietorship, partnerships and corporations.
4. Program completers will demonstrate knowledge of personal finance, bookkeeping and record keeping necessary to operate a small business.
5. Program completers will write a business plan and know how to communicate the elements of the business plan for a start-up or existing business.

Core Requirements

Complete 3 units

BUS 060	Small Business Management	3
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Restricted Electives

Area A - Complete 5 units selected from:

BUS 001A	Principles of Accounting	5
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BUS 010A	Bookkeeping	3
BUS 089	Quickbooks	2

Area B - Complete 3 units selected from:

BUS 021	Marketing	3
BUS 022	Professional Selling	3
BUS 023	Advertising	3

Area C - Complete 3 units selected from:

BUS 018A	Business Law	3
BUS 019	Legal Environment of Business	3

Area D - Complete 7 units selected from:

BUS 028	Entrepreneurial Mindset	3
BUS 029	Introduction to Entrepreneurship	3
BUS 094A	Small Business Start Up	1
BUS 094B	Essential Topics for Small Business	1
BUS 094C	The New Entrepreneur	1
BUS 094D	The Law and the Small Business	1
BUS 094E	Marketing and Advertising Strategies for Small Business	1
BUS 094F	Customer Service Strategies	1

Minimum Units Required: 21

Complete all courses with a grade of "C" or better.

Solar Photovoltaic Installation Technician, Certificate of Achievement

Upon successful completion of the Certificate of Achievement in Solar Photovoltaic Installation Technician, the student will demonstrate skills, knowledge, and training necessary for entry-level employment in the field of Solar Photovoltaic installation. Specific job titles include solar installer, solar electrical installer, solar installer trainee and other emerging careers in this field. The courses included in the certificate also qualify students to take the North American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Certificate of Knowledge Exam.

Program Learning Outcomes

1. Students will perform a site survey in order to determine the optimal location for a small size solar photovoltaic system.
2. Students will assess safety hazards in respect to fire, shock, and falls when installing or repairing photovoltaic systems.
3. Students will demonstrate the ability to troubleshoot basic solar photovoltaic circuits and determine potential problems with wiring and equipment malfunctions to industry standards.
4. Students will perform testing procedures with industry tools and test equipment necessary for solar photovoltaic module installations.
5. Students will identify and calculate different sizes of wire according to the National Electrical Code and industry standards.
6. Students will describe the components in a complete grid tie photovoltaic system.

Core Requirements

Complete 24 units

ELEC 030	Fundamentals of Electricity	5
ELEC 031	Electrical Wiring Methods	7
ELEC 051	Fundamentals of Solar Photovoltaic Systems	3
ELEC 052	Advanced Solar Photovoltaic Systems Installation	4
ELEC 053	NABCEP Entry Level Test Review	3
ELEC 073	Construction Safety - OSHA	2

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Supervision and Management, Certificate of Achievement

Upon successful completion of the Supervision and Management Certificate, the student demonstrates skills, knowledge, and training for positions such as, first-line supervisors and managers. The student demonstrates his or her ability to: plan and direct the work of the organization; set policy; establish channels of communication; and evaluate the work that is done. The student demonstrates his or her ability to foster positive relationships; increase job satisfaction; and ensure that customer or client needs are met; define company goals; apply relevant federal and state laws and union contracts; recognize and evaluate industry trends.

Program Learning Outcomes

1. Program completers will analyze problems faced by management and apply appropriate theories to personal and/or work situations.
2. Program completers will distinguish between "good" and "poor" work ethics when given a variety of workplace situations.
3. Program completers will explain the role of mission statements, policies, procedures, rules, and job descriptions within an organization and how they influence the responsibilities of supervisors/managers.
4. Program completers will distinguish between "management", "supervision," and "leadership" and describe the emphasis of each in transactional or transformational activities.
5. Program completers will describe management as a process and illustrate what managers do, how they do it, and the tools and techniques utilized.

Core Requirements

Complete 9 units

BUS 020	Introduction to Business	3
BUS 030	Supervision and Human Relations	3
BUS 031	Introduction to Management	3

Restricted Electives

Area A - Complete 3 units selected from:

BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 019	Legal Environment of Business	3

Area B - Complete 9 units selected from:

BUS 001A	Principles of Accounting	5
or		
BUS 010A	Bookkeeping	3
BUS 017	Business English	3
BUS 009	Ethical Issues in Business	3
or		
BUS 018B	Business Law	3
BUS 026	Economics of Business	3
BUS 036	Human Resources Management	3
BIM 039	Office Management	3
BUS 060	Small Business Management	3
or 3 units from the Business 94 Series:		
BUS 094A	Small Business Start Up	1
BUS 094B	Essential Topics for Small Business	1
BUS 094C	The New Entrepreneur	1
BUS 094D	The Law and the Small Business	1
BUS 094E	Marketing and Advertising Strategies for Small Business	1
BUS 094F	Customer Service Strategies	1
or		
CSA 020	Computer Information Systems Applications	3

Minimum Units Required: 21

Complete all courses with a grade of "C" or better.

Tax Preparation, Certificate of Achievement

Upon successful completion of the Tax Preparation Certificate, students will demonstrate skills, knowledge, and training for entry level positions to assist tax preparers and interviewers. The student completing this program will have demonstrated his or her ability to accurately fill in detailed data sheets to help in the preparation of tax returns by gathering information from client interviews, collecting copies of previous tax returns, wage statements, interest and dividend summaries, and other tax records.

Program Learning Outcomes

1. Demonstrate knowledge of Generally Accepted Accounting Principles (GAAP) and financial statement preparation for sole proprietors.
2. Demonstrate the ability to prepare basic federal and California income tax forms and calculate related schedules.

Core Requirements

Complete 24 units

BUS 001A	Principles of Accounting	5
BUS 001B	Principles of Accounting	5
BUS 003	Financial Accounting	5
BUS 004	Managerial Accounting	5
BUS 011	Income Tax Procedures	3
BUS 081	California Income Tax Preparation	1

Restricted Electives

Complete 6 units selected from:

BUS 015	Excel Spreadsheets	3
BUS 018A	Business Law	3
or		
BUS 019	Legal Environment of Business	3
BUS 020	Introduction to Business	3
BUS 026	Economics of Business	3
CS 011	Fundamentals of Computer Science	3
MATH 077A	Business Mathematics	3
and		
MATH 077B	Business Mathematics	3

Minimum Units Required: 30

Complete all courses with a grade of "C" or better.

Traffic Shipping and Receiving Technician, Certificate of Achievement

Upon successful completion of the Traffic Shipping & Receiving Technician Certificate, the student demonstrates skills, knowledge, and training for entry-level positions preparing and sending (shipping) and taking in (receiving) merchandise sent between companies. The student demonstrates skills to ensure that the right merchandise is being sent and is in acceptable condition, prepare bills of lading and related paperwork for commercial and other shipments, figure freight or postal rates and record costs and weights of each shipment. The student demonstrates his or her ability to write and keep records and reports on warehouse activities, wrap and address the goods to be shipped, inspect trucks and vans to make sure they're clean, and route incoming items coming in to a plant, warehouse, or department.

Program Learning Outcomes

1. The student will demonstrate skills to ensure that the right merchandise is being sent and is in acceptable condition, prepare bills of lading and related paperwork for commercial and other shipments, figure freight or postal rates and record costs and weights of each shipment.
2. The student will demonstrate the ability to write and keep records and reports on warehouse activities, wrap and address the goods to be shipped, inspect trucks and vans to make sure they're clean, and route incoming items coming in to a plant, warehouse, or department.

3. The student will demonstrate skills, knowledge, and training for entry-level positions preparing and sending (shipping) and taking in (receiving) merchandise sent between companies.

Core Requirements

Complete 1.5 units

BUS 051	Introduction to Transportation	1.5
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Restricted Electives

Area A - Complete 3 units selected from:

CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3

Area B - Complete 3 units selected from:

BUS 001A	Principles of Accounting	5
BUS 010A	Bookkeeping	3

Area C - Complete 3 units selected from:

BUS 056	Transportation: Export and Import	3
BUS 057	Introduction to Logistics	3
BUS 098V	Work Experience: Business, Accounting & Business Information Management	1-4

Area D - Complete 3 units selected from:

BIM 038	Office Technologies and Procedures	3
BIM 039	Office Management	3
BIM 081	Records Management and Filing	3
COM ST 007	Intercultural Communication	3
ENG 079	Preparatory English	5
MATH 077A	Business Mathematics	3
or higher level math course		

Minimum Units Required: 13.5

Complete all courses with a grade of "C" or better.

Welding Technology, Certificate of Achievement

Upon successful completion of the Welding certificate, the student demonstrates skills, knowledge, and training for employment in entry-level positions including industrial occupations in metal shops, all maintenance positions, sheet metal and metal fabrication shops, and many apprenticeship programs.

Program Learning Outcomes

1. Demonstrate basic knowledge in the interpretation of blueprints and drawings.
2. Demonstrate process proficiency in Oxy/Acetylene (O/A), Shielded Metal Arc Welding (SMAW), and Gas Metal Arc Welding (GMAW) processes.
3. Demonstrate safety knowledge specific to Oxy/Acetylene (O/A), Shielded Metal Arc Welding (SMAW), and Gas Metal Arc Welding (GMAW) processes.

Core Requirements

Complete 34.5 units

INDUS 035	Mobile Hydraulics	4
MECH 015	Machine Tool Process	3
MECH 081	Metal Trade Layout and Forming	5
WELDING 088A	Introductory Trade Welding	7.5
WELDING 088B	Beginning Trade Welding	7.5
WELDING 088C	Intermediate Trade Welding	7.5

Restricted Electives

Area A - Complete 5 units selected from:

ELEC 030	Fundamentals of Electricity	5
INDUS 045	Industrial Technology	5

Area B - Complete 3 units selected from:

INDUS 094	Industrial Mathematics	3
MATH 090	Beginning Algebra	4

Minimum Units Required: 42.5

Complete all courses with a grade of "C" or better.

ARTS AND COMMUNICATION DIVISION

Division Dean: Christopher Guptill

Holt 242

(209) 954-5209 or (209) 954-5211

FAX: (209) 954-3747

Music Lab/Library

Holt 105

(209) 954-5250

Faculty: Allen Amundsen, M.A.; Leslie Asfour, B.A.; Jennifer Barrows, Ph.D.; Kevin Bautch, M.F.A.; Mark Berkner, A.A.; Adriana Brogger, M.A.; Kathleen Bruce, M.A.; Gary S. Carlos, M.A.; Shenny Cruces, M.F.A.; Tara Cuslidge-Staiano, M.J.; Raman Deol, Ph.D.; Greg Foro, M.F.A.; Aaron Garner, M.M.; Valerie Gnassounou-Bynoe, M.A.; Steven Graham, Ed.D.; Robert Halabicky, B.S.; Brian Kendrick, M.A.; Melanie A. Marshall, M.A.; Mario Moreno, M.A.; Terry Petersen, M.A.; Kirstyn Russell, M.F.A.; Nicole Sandoval, M.A.; Ruth Santee, M.F.A.; Bruce Southard, D.M.A.; Ashlee Temple, M.F.A.; Jeff Toney, M.A.; M.J. Wamhoff, M.A.

Subjects

- Art (ART)
- Communication Studies (COM ST)
- Culinary Arts (CUL ART)
- Dance (DANCE)
- Drama (DRAMA)
- Fashion (FASHION)
- Graphic Arts (GRART)
- Interior Design (ID)
- Mass Communications (MCOM)
- Music (MUSIC)
- Photography (PHOTO)
- Radio/Television (RTV)

Degree Programs

- Apparel Design, Associate in Arts
- Art, Associate in Arts
- Art History, Associate in Arts for Transfer
- Baking and Pastry, Associate in Science
- Communication Studies, Associate in Arts
- Communication Studies, Associate in Arts for Transfer
- Culinary Arts, Associate in Arts
- Culinary Arts - Advanced, Associate in Science
- Dance, Associate in Arts
- Fashion Merchandising, Associate in Science
- Graphic Arts, Associate in Arts
- Interdisciplinary Studies - Arts, Humanities and Social Sciences Option, Associate in Arts
- Interior Design, Associate in Arts
- Journalism, Associate in Arts for Transfer
- *Multimedia, Associate in Arts
- Music, Associate in Arts
- Music, Associate in Arts for Transfer
- Photography, Associate in Arts

- Radio/Television, Associate in Arts
- Studio Art, Associate in Arts for Transfer
- Theatre Arts - Acting, Associate in Arts
- Theatre Arts - Technical Theatre, Associate in Arts
- Theatre Arts, Associate in Arts for Transfer

Certificate Programs

- *Apparel Industry Sewing
- Baking and Pastry
- Culinary Arts
- Fashion Design
- Fashion Merchandising
- Graphic Arts
- Interior Design
- Media Studies - Radio
- Media Studies - Television
- Multimedia
- *Photography
- Stagecraft

* - Pending Approval

Arts and Communication Division Degree Programs

Apparel Design, Associate in Arts

Upon successful completion of the degree, the student demonstrates the skills, training, and knowledge to succeed in the apparel design industry or to pursue further education in apparel design or related fields. Students who complete the degree demonstrate apparel construction and pattern making skills used in the fashion industry and obtain knowledge, skills and abilities to work in careers as industrial sewers, pattern makers, production room managers, fashion illustrators, designers and design assistants.

Program Learning Outcomes

1. Students design and produce original garments and collections to industry standards.
2. Students analyze and evaluate the affects of changing demographics and psychographics on consumer behavior in relation to fashion and related products in today's market.
3. Students analyze characteristics of various fibers and fabrics in relation to finished apparel goods.
4. Students demonstrate an understanding of current fashion industry production techniques.
5. Students demonstrate an understanding of the origins and history of textiles and fashion.
6. Students demonstrate an understanding of the fashion design process, using flat pattern, custom clothing and industrial sewing techniques.
7. Students demonstrate the skills and knowledge to use the tools and equipment used in apparel production in today's industry.

- Students demonstrate an understanding of the relationship between current fashion trends and cultural, social, political, technological and environment issues.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 28 units

FASHION 002	Introduction to the Fashion Industry	3
FASHION 004	Fashion Product Analysis	3
FASHION 006/ID 006	Textiles	3
FASHION 008	History of Fashion to the Twentieth Century	3
FASHION 009	History of Fashion from the Twentieth Century to Present	3
FASHION 010	Clothing and Culture	3
FASHION 021/ID 021	Trend Forecasting for Fashion and Interiors	2
FASHION 030	Basic Industry Sewing	3
FASHION 031	Intermediate Industry Sewing	3
FASHION 051	Beginning Fashion Illustration	2

Major Requirements - Restricted Electives

Complete 3 units selected from:

FASHION 037	Flat Pattern II	3
FASHION 052	Advanced Fashion Illustration	2
FASHION 058	Fashion Entrepreneurship	3

Minimum Major Units Required: 31

Minimum Degree Units Required: 60

Complete all courses with a grade of "C" or better.

Art, Associate in Arts

The Associate in Arts degree in Art will provide the student with a basic foundation in art principles and practices. Selected courses will include study in art history and studio practice in the creation of both two and three-dimensional works of art. The Art degree is designed for transfer to a four-year university or college, and for students who are interested in furthering skills in the visual arts.

Program Learning Outcomes

- Students will demonstrate an understanding of art in its historical context, including the social, political, economic, and religious context.
- Students will demonstrate creative problem solving, in the areas of form, content, function, and expression.

- Students will demonstrate skills and techniques used in multiple media to produce visual art.
- Students will demonstrate the appropriate use of terminology pertinent to the media or the field.
- Students will demonstrate the ability to analyze visual art.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units

Area A - Art History - Complete 3 units selected from:

ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3

Area B - Complete 9 units selected from:

ART 006	Color and Design	3
ART 012	3-D Design	3
ART 033A	Beginning Drawing	3
ART 033B	Intermediate Drawing	3
ART 033C	Figure Drawing	3

Area C - Complete 6 units selected from:

ART 007A	Painting I	3
ART 007B	Painting II	3
ART 007C	Painting III	3
ART 020A	Sculpture I	3
ART 020B	Sculpture II	3
ART 020C	Sculpture III	3
ART 033A	Beginning Drawing	3
ART 033B	Intermediate Drawing	3
ART 033C	Figure Drawing	3
ART 040A	Printmaking I	3
ART 040B	Printmaking II	3
ART 040C	Printmaking III	3
ART 064A	Ceramics I	3
ART 064B	Ceramics II	3
ART 064C	Ceramics III	3
PHOTO 001A	Introduction to Photography	3
PHOTO 001B	Intermediate Photography	3
PHOTO 003A	Introduction to Digital Photography	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Art History, Associate in Arts for Transfer**

The Associate in Arts in Art History for Transfer degree is designed as a seamless pathway for transfer to the California State University (CSU) in the area of Studio Art/Art with an Emphasis or Concentration in Art History. The study of art history provides students with a broad understanding of period and regional cultures, how humanity has visually communicated, various methods for studying art objects and its relation to broader historic and social concerns. Students who continue on to a Bachelor's Degree in Art History may be prepared to write art criticism, work in the field of art publication, in public and non-profit art organizations, or in museums and galleries as registrars, preparators or curatorial assistants. Advanced degrees offer wider career opportunities in academia, museums, preservation, and auction houses.

Program Learning Outcomes

1. Students will begin to develop the foreign language skills and/or broad cultural knowledge necessary to the practice of Art History.
2. Students will have demonstrated an awareness of basic techniques by applying them in the production of art.
3. Students will relate works of art or architecture made both in the Western and Non-Western traditions to the aesthetics, values, or practices of the cultures that produced them.
4. Students will recognize specific regional, period, and cultural styles of art produced by both Western and Non-Western cultures.
5. Students will use terminology pertinent to the field of art history appropriately.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 12 units

ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3

ART 002	Art History in the Non-Western World	3
ART 033A	Beginning Drawing	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

ART 001C	Modern and Contemporary Art History	3
ART 004	Exploring Art	3
ART 006	Color and Design	3
ART 007A	Painting I	3
ART 012	3-D Design	3
ART 020A	Sculpture I	3
ART 040A	Printmaking I	3
ART 064A	Ceramics I	3
PHOTO 001A	Introduction to Photography	3

Area B - Complete 3 units selected from:

ANTHR 001	Cultural Anthropology	3
ANTHR 006	Introduction to North American Indians	3
ANTHR 010	Introduction to Archeology	3
ART 001C	Modern and Contemporary Art History	3
CHIN 002	Elementary Chinese II	5
DRAMA 010	Introduction to Theatre	3
DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3
ENG 030	The Film as Literature	3
ENG 038	Mythology	3
ENG 043C	World Literature I	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3
FREN 002	Elementary French II	5
GERM 002	Elementary German II	5
HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
HIST 004A	History of Western Civilization	3
HIST 004B	History of Western Civilization	3
HIST 006A	History of Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 027	Women in History	3
HUM 003	Autobiography of Civilization	3
JAPAN 002	Elementary Japanese II	5
MUSIC 002A	Music History from Antiquity to 1750	3
MUSIC 002B	Music History from 1750 to Present	3
MUSIC 007	Excursions in Music of Our World	3
PHILO 006	Introduction to Philosophy	3
POLSC 002	Introduction to Comparative Politics	3
RELGN 014A	Great Religions of the Eastern World	3
RELGN 014B	Great Religions of the Western World	3
SOCIO 001A	Introduction to Sociology	3
SPAN 002	Elementary Spanish II	5

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.
Course substitutions are not permitted for this degree.

Minimum Degree Units Required: 60**Baking and Pastry, Associate in Science**

Upon completion of the Baking and Pastry AS Degree program the student will have a solid foundation of baking principles. This knowledge will allow them to perform at a high level in any pastry establishment. They will be able to produce high quality breads or chocolate candies, and everything in between.

Program Learning Outcomes

1. Students will have the ability to describe proper purchasing methods as used in modern foodservice operations.
2. Students will have the ability to demonstrate basic mixing methods as used in modern bakeshops and foodservice operations.
3. Students will be able to demonstrate knowledge of baking principles.
4. Students will have the ability to work a station in a modern bakery or foodservice bakeshop operation.
5. Students will be able to convert and cost recipes as required by modern bakeshops and foodservice establishments.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 26 units

CUL ART 001	Introduction to Hospitality Industry	2
CUL ART 003	Sanitation and Safety	2
CUL ART 004	Food and Beverage Cost Technologies	2
CUL ART 005	Commercial Food Preparation	4
CUL ART 007	Baking	3
CUL ART 008	European Pastry Production	4
CUL ART 025	Food Service Management	2
CUL ART 071	Plated Desserts	4
CUL ART 072	Retail Bakery Management	3

Minimum Major Units Required: 26

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Communication Studies, Associate in Arts**

Communication is fundamental in everyday life. Because effective communication is the basis for successful human interaction, the ability to develop good communication skills is a desirable and obtainable goal.

Effective communication skills are empowering. Competent communicators tend to be more successful in social and business realms. Their communication skills can help to strengthen relationships, contribute to their communities, and gain greater self-confidence. Additionally, employers report that they consistently rank communication competence above technical knowledge when hiring and promoting employees. According to business leaders from every industry, successful employees possess the ability to express their ideas to others with confidence and clarity.

In addition to relational and business benefits, effective communication skills are linked to critical thinking and ethical speech. Communication Studies courses help students develop communication skills that they will use throughout their lives in a wide range of settings and for a variety of purposes.

Program Learning Outcomes

1. Students are able to work cooperatively in small groups.
2. Students are able to apply communication concepts.
3. Students are able to speak proficiently in a variety of contexts.
4. Students are able to write proficiently at college level.
5. Students are able to apply research methods.
6. Students are able to employ critical thinking skills.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 3 units

COM ST 001A	Public Speaking	3
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Major Requirements - Restricted Electives

Area A - Complete 6 units selected from:

COM ST 003	Interpersonal Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 008	Small Group Communication	3

Area B - Complete 6 units selected from:

COM ST 002	Oral Interpretation of Literature	3
COM ST 004	Introduction to Human Communication	3
COM ST 007	Intercultural Communication	3
COM ST 052	Speech Activities and Advocacy	1-3
MCOM 001	Introduction to Mass Communication	3

Area C - Complete 3 units selected from:

COM ST 001B	Advanced Public Speaking	3
COM ST 002	Oral Interpretation of Literature	3
COM ST 003	Interpersonal Communication	3
COM ST 004	Introduction to Human Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 006/ BUS 006	Business and Professional Communication	3
COM ST 007	Intercultural Communication	3
COM ST 008	Small Group Communication	3
COM ST 009	Introduction to Communication Theory	3
COM ST 010	Storytelling: Interpreting Children's Literature	3
COM ST 011	Dialogues in U.S. American Culture	3
COM ST 012	Introduction to Persuasion	3
COM ST 052	Speech Activities and Advocacy	1-3
MCOM 001	Introduction to Mass Communication	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Units Required: 60**Communication Studies, Associate in Arts for Transfer**

The Associate in Arts in Communication Studies for Transfer is designed as a seamless pathway for students planning to transfer to a California State University (CSU) with a major in Communication Studies.

Communication is fundamental in everyday life. Because effective communication is the basis for successful human interaction, the ability to develop good communication skills is a desirable and obtainable goal. Effective communication skills are empowering. Competent communicators tend to be more successful in social and business realms. Their communication skills can help to strengthen relationships, contribute to their communities, and gain greater self-confidence. Additionally, employers report that they consistently rank communication competence above technical knowledge when hiring and promoting employees. According to business leaders from every industry, successful employees possess the ability to express their ideas to others with confidence and clarity.

In addition to relational and business benefits, effective communication skills are linked to critical thinking and ethical speech. Communication Studies courses help students develop communication skills that they will use throughout their lives in a wide range of settings and for a variety of purposes. All of the values, related to successful communication, are reflected in the college mission statement.

Program Learning Outcomes

1. Students are able to work cooperatively in small groups.
2. Students are able to apply communication concepts.
3. Students are able to speak proficiently in a variety of contexts.
4. Students are able to write proficiently at college level.
5. Students are able to apply research methods.
6. Students are able to employ critical thinking skills.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 3 units

COM ST 001A	Public Speaking	3
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Major Requirements - Restricted Electives

Area A - Complete 6 units selected from:

COM ST 003	Interpersonal Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 008	Small Group Communication	3

Area B - Complete 6 units selected from any course not already used from Area A or:

COM ST 002	Oral Interpretation of Literature	3
COM ST 007	Intercultural Communication	3
COM ST 009	Introduction to Communication Theory	3
COM ST 012	Introduction to Persuasion	3
COM ST 052	Speech Activities and Advocacy	1-3

Area C - Complete 3 units selected from any course not already used from Area A or Area B or:

COM ST 001B	Advanced Public Speaking	3
COM ST 004	Introduction to Human Communication	3
COM ST 006/ BUS 006	Business and Professional Communication	3
COM ST 010	Storytelling: Interpreting Children's Literature	3
COM ST 011	Dialogues in U.S. American Culture	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Culinary Arts, Associate in Arts

The Major in Culinary Arts is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Students will demonstrate proper Serve Safe skills as it applies to the food service industry.
2. Students will demonstrate proper purchasing, menu planning, production costing, and basic marketing skills.
3. Students will be able to perform basic culinary math skills as required by food service establishments.
4. Students will be able to demonstrate proper cooking methods and techniques required in the food service industry.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

CULART 001	Introduction to Hospitality Industry	2
CULART 003	Sanitation and Safety	2
CULART 004	Food and Beverage Cost Technologies	2
CULART 005	Commercial Food Preparation	4
CULART 007	Baking	3
CULART 009	Restaurant Operations	9
CULART 011	Menu Planning	1.5
CULART 013	Purchasing and Receiving	1.5
CULART 019	Kitchen Management	9
CULART 025	Food Service Management	2
CULART 029	Beverage Management	1.5
CULART 073	Garde Manger	1.5

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Culinary Arts - Advanced, Associate in Science

Upon successful completion of the degree, the student demonstrates the skills, training, and knowledge to transfer to a four-year hospitality program or industry employment, where the degree would enable quick upward mobility to the sous-chef position.

Program Learning Outcomes

1. Students will be able to demonstrate effective cost control and recipe conversions in a modern food service establishment.
2. Students will demonstrate proper cooking methods and techniques required of the food service industry.
3. Students will demonstrate proper safety and sanitation skills as it applies to the food service industry.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 46 units

CUL ART 001	Introduction to Hospitality Industry	2
CUL ART 003	Sanitation and Safety	2
CUL ART 004	Food and Beverage Cost Technologies	2
CUL ART 005	Commercial Food Preparation	4
CUL ART 007	Baking	3
CUL ART 008	European Pastry Production	4
CUL ART 009	Restaurant Operations	9
CUL ART 011	Menu Planning	1.5
CUL ART 013	Purchasing and Receiving	1.5
CUL ART 019	Kitchen Management	9
CUL ART 025	Food Service Management	2
CUL ART 029	Beverage Management	1.5
CUL ART 073	Garde Manger	1.5
FCS 006	Nutrition	3

Minimum Major Units Required: 46

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Dance, Associate in Arts**

Upon successful completion of the Dance Associate in Arts degree, the student demonstrates skills, knowledge, and training in dance performance and choreography that fosters artistic creativity within the discipline. The rigorous, disciplined, and innovative two-year curriculum is complimented by integrated studies in choreography, dance production, dance history, anthropology and theory, as well as an appreciation for the art of dance. Exploring diverse styles such as modern, classical, jazz, and world dance, the program unlocks intuitive potential for kinesthetic artistic expression, and combines it with a powerful and flexible set of dance/movement techniques and skills that can be shared with others. Additionally, the program contributes to the student's development of people management skills, collaboration strategies, and artistic aesthetic needed in continuing to develop dance potential in others. For any transfer students, academic advising is recommended for selection of courses for specific campuses.

Program Learning Outcomes

1. Students will demonstrate a working knowledge of production techniques, including backstage, management, and costuming.
2. Students will compose a dance demonstrating multicultural expression and a strong knowledge of the choreography process.
3. Students will demonstrate an understanding and appreciation for the principal historical, theoretical, and critical approaches to dance as a performing art.
4. Students will demonstrate a working knowledge of choreography (theoretical and empirical).
5. Students will demonstrate the skills required to perform at a proficient level in a variety of dance styles including ballet, jazz, and modern.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 22 units

DANCE 003	Choreography	2
DANCE 005A	Dance Production: Repertory Company I	3
DANCE 005B	Dance Production: Repertory Company II	3
DANCE 006A	Ballet I	2
DANCE 006B	Ballet II	2
DANCE 007A	Ballet III	2
DANCE 010A	Modern Dance I	2
DANCE 010B	Modern Dance II	2
DANCE 011A	Modern Dance III	2
DANCE 012A	Jazz Dance I	2

Major Requirements - Restricted Electives

Complete 4 units selected from:

DANCE 004	Choreography	2
DANCE 005C	Dance Production: Repertory Company III	3
DANCE 005D	Dance Production: Repertory Company IV	3
DANCE 007B	Ballet IV	2
DANCE 011B	Modern Dance IV	2
DANCE 012B	Jazz Dance II	2
DANCE 013A	Jazz Dance III	2
DANCE 013B	Jazz Dance IV	2
DANCE 030	Introduction to Dance	2
DANCE 036	Hip Hop	2

Minimum Major Units Required: 26

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Fashion Merchandising, Associate in Science**

Upon completion of the Fashion Merchandising AS Degree program students will have a solid foundation of fashion merchandising. This knowledge will allow them to perform at a high level in a fashion business. They will be able to succeed in jobs in the areas of fashion merchandising.

Program Learning Outcomes

1. Students demonstrate an understanding of the relationship between current fashion trends and cultural, social, political, technological and environmental issues.
2. Students demonstrate an understanding of the factors that affect the current fashion industry.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 32 units

FASHION 002	Introduction to the Fashion Industry	3
FASHION 004	Fashion Product Analysis	3
FASHION 006/ ID 006	Textiles	3
FASHION 008	History of Fashion to the Twentieth Century	3
FASHION 009	History of Fashion from the Twentieth Century to Present	3
FASHION 010	Clothing and Culture	3
FASHION 019/ ID 019	Retailing Fashion and Interiors	3
FASHION 021/ ID 021	Trend Forecasting for Fashion and Interiors	2
FASHION 022	Fashion Promotion and Marketing	3
FASHION 024	Visual Merchandising/Store Design I	3
FASHION 028A	Fashion Event Production	3

Minimum Major Units Required: 32

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Graphic Arts, Associate in Arts**

Upon successful completion of the AA Degree in Graphic Arts, the student will demonstrate skills, knowledge, and training for entry-level employment or to go on and further their education.

Program Learning Outcomes

1. The student will demonstrate ability to create graphic designs and documents using electronic desktop publishing software, create artwork using digital design software, design World Wide Web pages, and design pre-press publications.
2. Students demonstrate the skills required to complete project based documents using a graphic design software.
3. Students will demonstrate an understanding of graphic design concepts and principles.
4. Students will demonstrate proficient skills of Typography.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

GRART 001A	Digital Imaging	2
GRART 001B	Digital Imaging	2
GRART 002A	Layout Design	3
GRART 002B	Layout Design	3
GRART 003A	Computer Art	2
GRART 003B	Computer Art	2
GRART 004A	Graphic Design for the World Wide Web	2
GRART 004B	Graphic Design for the World Wide Web	2
GRART 006A	Publication Design	4
GRART 006B	Publication Design	4

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts**

The Arts, Humanities, and Social Sciences option is designed for the student who desires a broad exposure to the development of human culture and social organization through exploration of the Arts, Humanities, and Social Sciences and how each area influences and supports the other at the Associate Degree Level.

Courses in the Arts, Humanities, and Social Sciences option are those which focus on the cultural activities and artistic expressions, as well as the organizational principles and patterns of human beings. Such courses include introductory or integrative courses in arts, anthropology, foreign languages, history, economics, literature, music, philosophy, politics, psychology, religion, and theatre. These courses are designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them.

Program Learning Outcomes

1. Demonstrate the ability to integrate and utilize knowledge from multiple disciplines.
2. Analyze the similarities and differences between the ways knowledge is collected and applied in the disciplines studied.
3. Compare and contrast controversial viewpoints regarding issues from the perspective of two or more disciplines.

General Education

Complete the following General Education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

*Completion of the San Joaquin Delta College Associate Degree General Education pattern may be appropriate for the student who is:

1. planning to transfer to an out of state or independent 4-year college or university that accepts completion of the Associate Degree for transfer.
2. following NCAA guidelines.

General Education requirements vary widely from institution to institution. It is highly recommended that students see a counselor or consult the selected baccalaureate transfer campus catalog for appropriate GE course selection.

Courses Within the Area of Emphasis

Area A - Arts and Humanities - Complete 6 units selected from:

ANTHR 004/HUM 004	Introduction to Linguistics	3
ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3
ART 001C	Modern and Contemporary Art History	3
ART 002	Art History of the Non-Western World	3
ART 003	Art Appreciation	3
ART 004	Exploring Art	3
ART 006	Color and Design	3
ART 007A	Painting I	3
ART 012	3-D Design	3
ART 020A	Sculpture I	3
ART 033A	Beginning Drawing	3
ART 033B	Intermediate Drawing	3
ART 033C	Figure Drawing	3
ART 040A	Printmaking I	3
ART 064A	Ceramics I	3
CHIN 001	Elementary Chinese I	5
CHIN 002	Elementary Chinese II	5
CHIN 003	Intermediate Chinese I	5
CHIN 004	Intermediate Chinese II	5
CIVIL 003/HUM 003	Autobiography of Civilization	3
COM ST 001B	Advanced Public Speaking	3

COM ST 004	Introduction to Human Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 006/BUS 006	Business and Professional Communication	3
COM ST 007	Intercultural Communication	3
COM ST 008	Small Group Communication	3
COM ST 011	Dialogues in U.S. American Culture	3
COM ST 012	Introduction to Persuasion	3
COM ST 013	Readers Theatre	3
COM ST 052	Speech Activities and Advocacy	1-3
DANCE 035A	African-Caribbean Dance I	3
DANCE 035B	African-Caribbean Dance II	2
DANCE 035C	Intermediate African-Caribbean Dance III	2
DANCE 037A	West African Dance I	2
DANCE 037B	West African Dance II	2
DANCE 037C	Intermediate West African Dance III	2
DRAMA 006A	Improvisational Theatre I	3
DRAMA 006B	Improvisational Theatre II	3
DRAMA 010	Introduction to Theatre	3
DRAMA 015	Make-Up for the Theatre	3
DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3
DRAMA 019A	Technical Theatre I	4
DRAMA 019B	Technical Theatre II	4
DRAMA 025A	Theatre Production: Acting	3
DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 027A	Repertory Workshop: Acting I	2
DRAMA 027B	Repertory Workshop: Acting II	2
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 031	Introduction to Acting	3
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 044B	Traditional Theatre Production: Crew	1-3
DRAMA 047A	Musical Theatre Production: Acting	3
DRAMA 047B	Musical Theatre Production: Crew	1-3
ENG 001B	Written Communication II: A Critical Introduction to Literature	3
ENG 001D	Advanced Composition and Critical Thinking	3
ENG 030	The Film as Literature	3
ENG 035	Chicano Literature	3
ENG 037	Women in Literature	3
ENG 038	Mythology	3
ENG 042A	Survey of American Literature I	3
ENG 042B	Survey of American Literature II	3
ENG 043C	World Literature I	3
ENG 043D	World Literature II	3
ENG 044D	Creative Writing: Play and Screen Writing	3
ENG 045	The Reading of Shakespeare	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3
ENG 047	The Bible as Literature	3

ENG 049A	Introduction to Creative Writing	3	MUSIC 003D	Music Theory and Musicianship IV	4
ENG 049B	Creative Writing: Fiction	3	MUSIC 004	Exploring Music	3
ENG 049C	Creative Writing: Poetry	3	MUSIC 007	Excursions in Music of Our World	3
ENG 052	From Story to Screen	3	MUSIC 008	Exploring Jazz, Ragtime, and Blues	3
ENG 055A	Studies in Drama	3	MUSIC 017	Concert Choir	1
ENG 055B	Studies in Fiction	3	MUSIC 026	Symphonic Band	1-2
ENG 055C	Studies in Poetry	3	MUSIC 027	Orchestra	1-2
ENG 057	Children's Literature	3	MUSIC 029	Jazz Band	1-2
FASHION 006/ID 006	Textiles	3	MUSIC 038A	Class Piano for Music Majors I	1
FASHION 008	History of Fashion to the Twentieth Century	3	MUSIC 040A	Applied Music	0.5-2
FREN 001	Elementary French I	5	MUSIC 040B	Applied Music	0.5-2
FREN 002	Elementary French II	5	MUSIC 040C	Applied Music	0.5-2
FREN 003	Intermediate French I	5	MUSIC 040D	Applied Music	0.5-2
FREN 004	Intermediate French II	5	PEACTIV 001A	Introductory Swimming	1.5
FREN 005	Advanced French	5	PEACTIV 001D	Swim Training and Conditioning	0.5-1
GERM 001	Elementary German I	5	PEACTIV 010A	Beginning Fitness Walking	1
GERM 002	Elementary German II	5	PEACTIV 022	Tennis	0.5-1
GERM 003	Intermediate German I	5	PEACTIV 024A	Volleyball I	1
GERM 004	Intermediate German II	5	PEACTIV 025A	Basketball I	1
GRART 001A	Digital Imaging	2	PEACTIV 031A	Beginning Bowling	0.5-1
GRART 002A	Layout Design	3	PETHEORY 040	Introduction to Kinesiology	3
GRART 003A	Computer Art	2	PHILO 006	Introduction to Philosophy	3
HORT 004	History of Garden Design	3	PHILO 030	Introductory Logic	3
HUM 003/CIVIL 003	Autobiography of Civilization	3	PHILO 040	Ethics	3
HUM 004/ANTHR 004	Introduction to Linguistics	3	PHILO 045	Philosophy of Religion	3
ID 002	Introduction to Interior Design	3	PHILO 050	Asian Philosophy	3
ID 006/FASHION 006	Textiles	3	PHOTO 001A	Introduction to Photography	3
ID 008	History of Design and Furniture	3	RELGN 014A	Great Religions of the Eastern World	3
ITAL 001	Elementary Italian I	5	RELGN 014B	Great religions of the Western World	3
ITAL 002	Elementary Italian II	5	SL 001	Elementary American Sign Language I	4
ITAL 003	Intermediate Italian I	5	SL 002	Elementary American Sign Language II	4
ITAL 004	Intermediate Italian II	5	SL 003	Intermediate American Sign Language I	4
JAPAN 001	Elementary Japanese I	5	SL 004	Intermediate American Sign Language II	4
JAPAN 002	Elementary Japanese II	5	SPAN 001	Elementary Spanish I	5
JAPAN 003	Intermediate Japanese I	5	SPAN 002	Elementary Spanish II	5
JAPAN 004	Intermediate Japanese II	5	SPAN 003	Intermediate Spanish I	5
MCOM 001	Introduction to Mass Communication	3	SPAN 003A	Spanish for Spanish Speakers I	5
MCOM 002	Writing for the Media	3	SPAN 004	Intermediate Spanish II	5
MCOM 004	Mass Media and Critical Thinking	3	SPAN 004A	Spanish for Spanish Speakers II	5
MCOM 005	Social Media and Society	3	SPAN 005	Advanced Spanish Introduction to Literature I	5
MCOM 007	Photojournalism	3	SPAN 006	Advanced Spanish Introduction to Literature II	5
MCOM 010	Introduction to Multimedia	3	Area B - Social Sciences - Complete 6 units selected from:		
MCOM 011	Newswriting	3	A J 021	Criminal Justice in Society	3
MCOM 012A	Newspaper Production I	3	ANTHR 001	Cultural Anthropology	3
MCOM 012B	Newspaper Production II	3	ANTHR 006	Introduction to North American Indians	3
MUSIC 001	Music Fundamentals	3	ANTHR 010	Introduction to Archaeology	3
MUSIC 002A	Music History from Antiquity to 1750	3	BUS 006/COM ST 006	Business and Professional Communication	3
MUSIC 002B	Music History form 1750 to Present	3	BUS 008	Introduction to The American Legal System	3
MUSIC 003A	Music Theory and Musicianship I	4	BUS 018A	Business Law	3
MUSIC 003B	Music Theory and Musicianship II	4			
MUSIC 003C	Music Theory and Musicianship III	4			

BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3
BUS 020	Introduction to Business	3
BUS 026	Economics of Business	3
CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3
CS 011	Fundamentals of Computer Science	3
ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3
EDUC 010	Introduction to Education	3
EDUC 012	Reading Tutoring Techniques	3
GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3
GEOG 003	Geography of California	3
GEOG 010	World Regional Geography	3
GRART 006A	Publication Design	4
H ED 031	Emergency Responder	3
HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
HIST 004A	History of Western Civilization	3
HIST 004B	History of Western Civilization	3
HIST 006A	History of Asian Civilization	3
HIST 006B	History of South and Southeast Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 007	History Through Film	3
HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
HIST 027	Women in History	3
HIST 030A	African-American History to 1877	3
HIST 030B	African-American History Since 1877	3
HIST 031	Mexican-American History	3
HIST 034	Asian Pacific American History	3
HIST 037	California History	3
POLSC 001	American Government and Institutions	3
POLSC 002	Introduction to Comparative Politics	3
POLSC 003	Introduction to Political Theory	3
POLSC 004	California Politics	3
POLSC 005	International Relations	3
POLSC 006	International Political Economy	3
PSYCH 001	Introduction to Psychology	3
PSYCH 002	Statistical Methods for Psychology and Social Science	3
PSYCH 003	Personal and Social Psychology	3
PSYCH 004	Introduction to Research Methods in Psychology	3
PSYCH 006	Lifespan Psychology	3

PSYCH 007	Abnormal Psychology	3
PSYCH 030/BIOL 030	Human Sexuality	3
SOCIO 001A	Introduction to Sociology	3
SOCIO 001B	Problems of a Changing Society	3
SOCIO 027	Gender in Contemporary Society	3
SOCIO 033	Social Inequality in the United States	3

Area C - Complete 6 additional units selected from any of the courses listed above.

Minimum Area of Emphasis Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Interior Design, Associate in Arts

The Major in Interior Design is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Students develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

ARCH 001	Basic Architectural Drafting	3
ART 001A	Art History: Europe from Prehistory to 1400	3
FASHION 006/ID 006	Textiles	3
FCS 050H	Special Studies: Family and Consumer Sciences	1-2
ID 002	Introduction to Interior Design	3
ID 008	History of Interior Design and Furniture	3
ID 010	Residential Interior Design	3
ID 013	Specifications and Professional Practices	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Journalism, Associate in Arts for Transfer**

The Associate in Arts in Journalism for Transfer is designed for students planning to transfer to a California State University (CSU) with a major in Journalism.

Journalism is the study of writing, video, radio, multimedia and social media to disseminate news and relevant information to the masses. Courses in journalism provide students with higher-order cognitive skills, including decision-making and critical thinking, verbal skills through interviewing, written skills through use of newswriting techniques, use of tone, multitasking, deadline management and teamwork as members of a news staff. Jobs in the field include: journalist, multimedia producer, editor, writer, technical writer, page designer, copyeditor, social media specialist, content producer, news service writer, newsletter editor, public relations representative and photojournalist. The completion of this degree ensures preparation for upper-division coursework for students seeking to transfer and pursue a baccalaureate degree in Journalism from a California State University (CSU).

Program Learning Outcomes

1. Students will be able to use judgment to determine best course of action in reporting, as well as newsworthiness to effectively purvey information to the masses.
2. Students will understand the ethical and legal involved in producing multimedia news content.
3. Students will be able to accurately report and write a variety of stories in journalistic style.
4. Students will be able to act as multimedia journalists, producing content across mediums.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 9 units

MCOM 001	Introduction to Mass Communication	3
MCOM 011	Newswriting	3
MCOM 012A	Newspaper Production I	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

MCOM 007	Photojournalism	3
MCOM 010	Introduction to Multimedia	3
MCOM 012B	Newspaper Production II	3
Area B - Complete 6 units selected from:		
COM ST 005	Argumentation and Debate	3
ENG 001D	Advanced Composition and Critical Thinking	3
PHILO 030	Introductory Logic	3
PHOTO 001A	Introduction to Photography	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Multimedia, Associate in Arts****PENDING APPROVAL**

The Associate of Arts degree in Multimedia prepares students for a career or further study in the field of digital media or multimedia. Students receive hands-on instruction and training necessary for entry-level employment while completing a general education path of study. Coursework involves work that will allow for jobs in digital media, digital imaging, computer art, multimedia journalism, digital photography, social media marketing, online journalism, audio engineering, web design, and audio/video production. Students will work in a manner that involves industry standards, leaving the program with a portfolio allowing them to pursue jobs immediately upon completion or continue their education.

Program Learning Outcomes

1. Students will be able to act as multimedia content producers, producing entry-level professional quality content across web and mobile.
2. Students will understand the ethical and legal involved in producing multimedia content.
3. Students will be able to use judgment to determine the best use of digital media technology to deliver information to the masses.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 19 units

GRART 001A	Digital Imaging	2
GRART 001B	Digital Imaging	2
MCOM 005	Social Media and Society	3
MCOM 010	Introduction to Multimedia	3
PHOTO 003A	Introduction to Digital Photography	3

RTV 011	Fundamentals of Audio Production	3
RTV 012	Fundamentals of Video Production	3

Major Requirements - Restricted Electives

Complete 3 units selected from:

GRART 002A	Layout Design	3
MCOM 001	Introduction to Mass Communication	3
PHOTO 001A	Introduction to Photography	3
RTV	Introduction to Broadcasting/Electronic Media	3

Minimum Major Units Required: 22

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Music, Associate in Arts**

The Associate in Arts in Music degree is designed to develop a strong base of knowledge and skills within the discipline that will serve as a foundation for further study. Students majoring in music complete a series of university-transferable courses in the areas of musicianship, music theory, individual performance, and ensemble performance.

Fundamental to the study of music is the performance of music. Upon entering the program, the student declares a primary performance medium (instrument or voice) and is assigned an applied instructor with whom the student meets regularly throughout the program. Students also demonstrate fundamental keyboarding skills by passing a piano proficiency examination or completing appropriate coursework. In addition to individual performance, ensemble performance is fundamental for the developing musician. The department offers numerous performing ensembles that serve to provide opportunities for majors and non-majors alike.

Program Learning Outcomes

1. Students will develop fundamental competencies in current music technology.
2. Students will demonstrate proficient keyboard skills.
3. Students will demonstrate proficient aural skills.
4. Students will demonstrate the skills required to perform at a proficient level in any size ensemble and as a soloist.
5. Students will demonstrate proficient written theory skills.
6. Students will demonstrate an understanding of the standards required to be a successful professional musician.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 20 units

MUSIC 003A	Music Theory and Musicianship I	4
MUSIC 003B	Music Theory and Musicianship II	4
MUSIC 003C	Music Theory and Musicianship III	4
MUSIC 003D	Music Theory and Musicianship IV	4
MUSIC 040A	Applied Music	1
MUSIC 040B	Applied Music	1
MUSIC 040C	Applied Music	1
MUSIC 040D	Applied Music	1

Major Requirements - Restricted Electives

Area A - Large Performance Ensemble - Complete 4 units, at least 1 unit each semester selected from:

MUSIC 017	Concert Choir	1
MUSIC 026	Symphonic Band	1-2
MUSIC 027	Orchestra	1-2
MUSIC 029	Jazz Band	1-2

Area B - Complete a Piano Proficiency Examination or the following:

MUSIC 038A	Class Piano for Music Majors I	1
and		
MUSIC 038B	Class Piano for Music Majors II	1
and		
MUSIC 038C	Class Piano for Music Majors III	1
and		
MUSIC 038D	Class Piano for Music Majors IV	1

Minimum Major Units Required: 24

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Music, Associate in Arts for Transfer**

The Associate in Arts for Transfer in Music prepares students with a strong base of knowledge and skills that will serve as a foundation for further study and completion of the baccalaureate degree. Students majoring in music complete a series of university-transferable courses in the areas of musicianship, music theory, individual performance, and ensemble performance.

Fundamental to the study of music is the performance of music. Upon entering the program, the student declares a primary performance medium (instrument or voice) and is assigned an applied instructor with whom the student meets regularly throughout the program. In addition to individual performance, ensemble performance is fundamental for the developing musician.

Program Learning Outcomes

1. Students will demonstrate proficient keyboard skills.
2. Students will demonstrate proficient aural skills.
3. Students will demonstrate the skills required to perform at a proficient level in any size ensemble and as a soloist.
4. Students will demonstrate proficient written theory skills.
5. Students will demonstrate an understanding of the standards required to be a successful professional musician.

General Education

Complete the following general education pattern:

- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 18 units

MUSIC 003A	Music Theory and Musicianship I	4
MUSIC 003B	Music Theory and Musicianship II	4
MUSIC 003C	Music Theory and Musicianship III	4
MUSIC 003D	Music Theory and Musicianship IV	4
MUSIC 040A	Applied Music	0.5
MUSIC 040B	Applied Music	0.5
MUSIC 040C	Applied Music	0.5
MUSIC 040D	Applied Music	0.5

Major Requirements - Restricted Electives

Area A - Large Performance Ensemble - Complete 4 units, at least 1 unit each semester selected from:

MUSIC 017	Concert Choir	1
MUSIC 026	Symphonic Band	1
MUSIC 027	Orchestra	1
MUSIC 029	Jazz Band	1

Minimum Major Units Required: 22

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Photography, Associate in Arts**

The Major in Photography is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Students are encouraged to see a counselor for assistance in developing an educational plan that will identify the lower division major preparation and general education coursework that corresponds to the intended major and specific transfer institution. Students should

consult www.assist.org for current course articulation in their major.

Program Learning Outcomes

1. Students demonstrate the ability to apply concepts and aesthetics to create and evaluate photographic images.
2. Students demonstrate skills in digital technologies. Including using a digital camera, properly preparing files to print, and creating a final portfolio.
3. Students demonstrate the ability to use the traditional tools of photography. Including developing film, printing photographs, and critiquing photographs.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 18 units

ART 006	Color and Design	3
GRART 001A	Digital Imaging	2
GRART 001B	Digital Imaging	2
PHOTO 001A	Introduction to Photography	3
PHOTO 001B	Intermediate Photography	3
PHOTO 003A	Introduction to Digital Photography	3
PHOTO 034	Workshop Projects	2

Major Requirements - Restricted Electives

Complete 3 units selected from:

ART 007A	Painting I	3
ART 020A	Sculpture I	3
ART 064A	Ceramics I	3

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Radio/Television, Associate in Arts**

Broadcast professionals work in a variety of fields, including television, radio, new media, public relations, and advertising. The major in Radio/Television prepares students to enter this exciting field, or continue their

education at a four-year institution. Courses offer both technical and theoretical instruction.

Program Learning Outcomes

1. Students will exhibit professional behavior and work ethic, demonstrate the ability to produce projects that communicate specific ideas.
2. Students in this program will demonstrate competency using information and technology in the various audio and video broadcasting platforms.
3. Students will demonstrate the use of a variety of software used in audio and video production and the ways that this software can be integrated in the development of projects.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 6 units

MCOM 001	Introduction to Mass Communication	3
RTV 001	Introduction to Broadcasting	3

Major Requirements - Restricted Electives

Area A - Complete 13 units selected from:

MCOM 002	Writing for the Media	3
RTV 011	Fundamentals of Audio Production	3
RTV 012	Techniques of Audio Production	3
RTV 013	Audio Production Workshop	4
RTV 021	Fundamentals of Video Production	3
RTV 022	Techniques of Video Production	3
RTV 023	Video Production Workshop	4
RTV 031	Media Performance	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Studio Art, Associate in Arts for Transfer

The Associate in Arts in Studio Art for Transfer will provide the student with an introductory foundation in art principles and practices. Selected courses will include study in art history and studio practice in the creation of

both two and three-dimensional works of art. This Studio Art program is designed for students planning to transfer to a California State University (CSU) or other four-year college or university, and for students who are interested in acquiring the skills needed to begin lifelong learning in the visual arts.

Program Learning Outcomes

1. Students will recognize and identify the historical context, including the social, political, economic, and religious background of art.
2. Students will demonstrate the appropriate use of terminology pertinent to the media or the field.
3. Students will demonstrate skills and techniques used in multiple media to produce visual art.
4. Students will demonstrate creative problem solving, in the areas of form, content, function, and expression.
5. Students will demonstrate the ability to analyze visual art.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 12 units (It is strongly recommended that students complete the Core Requirements prior to enrolling in Studio Art Electives.)

ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3
ART 006	Color and Design	3
ART 012	3-D Design	3
ART 033A	Beginning Drawing	3

Major Requirements - Restricted Electives

Area A - Art History - Complete 3 units selected from:

ART 001A	Art History: Europe from Prehistory to 1400	3
ART 002	Art History of the Non-Western World	3

Area B - Studio Art - Complete 9 units selected from:

ART 007A	Painting I	3
ART 020A	Sculpture I	3
ART 033B	Intermediate Drawing	3
or		
ART 033C	Figure Drawing	3
ART 040A	Printmaking I	3

ART 064A	Ceramics I	3
PHOTO 001A	Introduction to Photography	3

Minimum Major Units Required: 24

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Theatre Arts - Acting, Associate in Arts**

The Theatre Arts - Acting Associate in Arts Degree provides a rigorous, disciplined and integrated curriculum designed to meet the vocational demands of the theatre profession. Developed for the career-oriented theatre student, the curriculum seeks to release the intuitive potential for performance and production in each individual. With this foundation, past Delta Drama alumni have successfully transferred in to the UC and CSU systems to complete their baccalaureate degree, and are working professionally as actors, directors, technical artists, designers and teachers. Additionally, the program contributes to the overall development of management skills, creative problem solving and effective communication necessary for any career path.

Program Learning Outcomes

1. Students will demonstrate the skills required to perform at the "proficient level" through performance for a live audience.
2. Students will demonstrate the skills required to perform at a "proficient level" in ensemble acting exercises including: scene study, voice and movement, audition techniques by successfully completing course requirements.
3. Students will demonstrate a proficient knowledge of theatre history by successfully completing the required theatre history courses.
4. Students will demonstrate the skills required to perform at a "proficient level" in stagecraft by successfully completing Drama 19A.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 16 units

DRAMA 019A	Technical Theatre I	4
DRAMA 031	Introduction to Acting	3
DRAMA 032	Voice and Speech for the Actor	2
DRAMA 033	Movement for the Actor	2
DRAMA 035	Classical and Shakespearean Acting	3

DRAMA 041	The Business of Acting: Audition Techniques and Career Development	2
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Major Requirements - Restricted Electives

Area A - Complete 6 units selected from:

DANCE 012A	Jazz Dance I	2
DRAMA 006A	Improvisational Theatre I	3
DRAMA 034	Styles of Acting	3
DRAMA 038	Acting for the Camera	3
DRAMA 039	Principles of Directing	3
MUSIC 020A	Voice for Musical Theatre I	1
MUSIC 020B	Voice for Musical Theatre II	1

Area B - Complete 3 units selected from:

DRAMA 015	Make-Up for the Theatre	3
DRAMA 019B	Technical Theatre II	4
DRAMA 020	Scenic Painting	3
DRAMA 021	Stage Sound	3
DRAMA 022	Stage Lighting	3
DRAMA 023	Stage Costume	3
DRAMA 024	Scenic Construction	3

Area C - Complete 3 units selected from:

DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3

Area D - Complete 4 units selected from:

DRAMA 025A	Theatre Production: Acting	3
DRAMA 027A	Repertory Workshop: Acting I	2
DRAMA 027B	Repertory Workshop: Acting II	2
DRAMA 027C	Repertory Workshop: Acting III	2
DRAMA 027D	Repertory Workshop: Acting IV	2
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 047A	Musical Theatre Production: Acting	3

Area D - Complete 2 units selected from:

DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 044B	Traditional Theatre Production: Crew	1-3
DRAMA 047B	Musical Theatre Production: Crew	1-3

Minimum Major Units Required: 34

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Theatre Arts - Technical Theatre, Associate in Arts**

Upon successful completion of the Theatre Arts (Technical Theatre) Associate in Arts degree, the student demonstrates skills, knowledge, and training in technical theatre. A rigorous, disciplined, and innovative two-year curriculum in all aspects of theatre includes integrated studies in acting, theatre history, and theatre production specifically designed to augment the technical theatre focus. The technical theatre program seeks to unlock intuitive potential for theatre design and aesthetic development, and combines with it a powerful, yet flexible implementation of techniques and skills. Additionally, the program will contribute to the student's

development of people management skills, collaboration strategies, and artistic aesthetics.

Program Learning Outcomes

1. Students will successfully perform stagecraft procedures and techniques.
2. Students will successfully perform production stage crew duties for live theatrical productions.
3. Students will demonstrate a knowledge of theatre history.
4. Students will demonstrate skills required in performance techniques.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 12 units

DRAMA 019A	Technical Theatre I	4
DRAMA 019B	Technical Theatre II	4
DRAMA 031	Introduction to Acting	3
DRAMA 040A	Technical Theatre Portfolio I	1

Major Requirements - Restricted Electives

Area A - Theatre History - Complete 3 units selected from:

DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3

Area B - Technical - Complete 9 units from:

DRAMA 015	Make-Up for The Theatre	3
DRAMA 020	Scenic Painting	3
DRAMA 021	Stage Sound	3
DRAMA 022	Stage Lighting	3
DRAMA 023	Stage Costume	3
DRAMA 024	Scenic Construction	3

Area C - Production - Complete 6 units selected from:

DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 029C	Repertory Workshop: Crew III	1-2
DRAMA 029D	Repertory Workshop: Crew IV	1-2
DRAMA 040B	Technical Theatre Portfolio II	1
DRAMA 040C	Technical Theatre Portfolio III	1
DRAMA 040D	Technical Theatre Portfolio IV	1
DRAMA 044B	Traditional Theatre Production: Crew	1-3
DRAMA 047B	Musical Theatre Production: Crew	1-3

Minimum Major Units Required: 30

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Theatre Arts, Associate in Arts for Transfer

This program is designed for students planning to transfer to a California State University (CSU) with a major in Theatre Arts. Upon completion, students will demonstrate the skills, knowledge and training necessary for advanced degree transfer in theatre arts. Students complete a rigorous, disciplined curriculum in acting, theatre history, and theatre production specifically designed to prepare them for advanced study in theatre arts. The program seeks to unlock the student's intuitive potential in theatre arts, while providing a powerful, yet flexible set of techniques and skills. Additionally, the program will contribute to the student's development of people management skills, collaboration strategies, and artistic aesthetics.

Program Learning Outcomes

1. Students will demonstrate the skills required to perform at a proficient level in individual and ensemble acting exercises including: scene study, voice and movement, audition techniques.
2. Students will demonstrate the skills required to perform at a proficient level in stagecraft techniques and practices including scenic, lighting, costume and sound design and production.
3. Students will demonstrate the skills required to perform at the proficient level in public theatre presentation.
4. Students will demonstrate the skills required to perform stage crew duties at the proficient level in public theatre presentation.
5. Students will demonstrate a proficient knowledge of theatre history.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 10 units

DRAMA 016A	History of Theatre: Primitive to 18th Century	3
DRAMA 019A	Technical Theatre I	4
DRAMA 031	Introduction to Acting	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

DRAMA 025A	Theatre Production: Acting	3
DRAMA 025B	Theatre Production: Crew	1 - 3
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 044B	Traditional Theatre Production: Crew	1 - 3
DRAMA 047A	Musical Theatre Production: Acting	3
DRAMA 047B	Musical Theatre Production: Crew	1 - 3

Area B - Complete 6 units selected from:

DRAMA 001B	Actor's Studio II	4
DRAMA 015	Make-Up for the Theatre	3
DRAMA 019B	Technical Theatre II	4
DRAMA 022	Stage Lighting	3
DRAMA 023	Stage Costume	3
DRAMA 025A	Theatre Production: Acting	3
DRAMA 025B	Theatre Production: Crew	1 - 3
DRAMA 035	Classical and Shakespearean Acting	3
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 044B	Traditional Theatre Production: Crew	1 - 3
DRAMA 047A	Musical Theatre Production: Acting	3
DRAMA 047B	Musical Theatre Production: Crew	1 - 3

Minimum Major Units Required: 19

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Arts and Communication Division****Certificate Programs****Apparel Industry Sewing, Certificate of Achievement****PENDING APPROVAL**

The Apparel Industry Sewing Certificate provides students with specific training in industry sewing and manufacturing utilizing standards used in the current fashion industry. Upon successful completion of the program, students should be able to find employment in a variety of industries such as automotive sewing, automotive interiors, clothing manufacturing, boat canvas and interiors, awning manufacturing, and upholstery.

Program Learning Outcomes

1. Student demonstrates proficiency in using tools and equipment used in garment production for the fashion industry.
2. Student creates sample garments utilizing current industrial sewing techniques.
3. Student demonstrates skills used in current fashion industry in the field of industry sewing.

Core Requirements

Complete 18 units

FASHION 002	Introduction to the Fashion Industry	3
FASHION 004	Fashion Product Analysis	3

FASHION 030	Basic Industry Sewing	3
FASHION 031	Intermediate Industry Sewing	3
FASHION 032	Advanced Industry Sewing	3
FASHION 033	Alterations and Fit	3

Minimum Units Required: 18

Complete all courses with a grade of "C" or better.

Baking & Pastry, Certificate of Achievement

Upon completion of the Baking and Pastry Certificate program the student will have a solid foundation of baking principles. This knowledge will allow them to perform at a high level in any pastry establishment. They will be able to produce high quality breads or chocolate candies, and everything in between.

Program Learning Outcomes

1. Students will have the ability to demonstrate standardized safe food handling techniques.
2. Students will have the ability to perform basic culinary math functions including recipe costing and conversions.
3. Students will have the ability to demonstrate basic baking techniques following standardized recipes.

Core Requirements

Complete 26 units

CUL ART 001	Introduction to Hospitality Industry	2
CUL ART 003	Sanitation and Safety	2
CUL ART 004	Food and Beverage Cost Technologies	2
CUL ART 005	Commercial Food Preparation	4
CUL ART 007	Baking	3
CUL ART 008	European Pastry Production	4
CUL ART 025	Food Service Management	2
CUL ART 071	Plated Desserts	4
CUL ART 072	Retail Bakery Management	3

Minimum Units Required: 26

Complete all courses with a grade of "C" or better.

Culinary Arts, Certificate of Achievement

Upon successful completion of the Culinary Arts Certificate, the student will demonstrate knowledge and skills to enter the foodservice industry as a chef's assistant or to work in related areas of foodservice.

Program Learning Outcomes

1. The student will be able to demonstrate effective cost control and recipe conversions in a modern food service establishment.
2. The student will be able to demonstrate proper and safe food handling skills as outlined by the National Restaurant Association's serv-safe program.
3. The student will be able to demonstrate food delivery techniques including buffets, catered and plated food functions.
4. The student will be able to demonstrate the knowledge and skill necessary to function at the level of prep cook or bakers assistant in a modern food service establishment.

- The student will be able to demonstrate the preparation of a variety of hot foods, cold foods and bakery items using standardized recipes.
- Program completers will identify different elements of the hospitality industry and skills needed to gain employment.

Core Requirements

Complete 29.5 units

CUL ART 001	Introduction to Hospitality Industry	2
CUL ART 003	Sanitation and Safety	2
CUL ART 004	Food and Beverage Cost Technologies	2
CUL ART 005	Commercial Food Preparation	4
CUL ART 009	Restaurant Operations	9
CUL ART 019	Kitchen Management	9
CUL ART 073	Garde Manger	1.5

Minimum Units Required: 29.5

Complete all courses with a grade of "C" or better.

Fashion Design, Certificate of Achievement

The Certificate of Achievement will prepare students for entry-level positions in the apparel design and manufacturing industry. This comprehensive course of study will provide students with technical, practical, and conceptual development skills for many employment opportunities in the apparel design field.

Program Learning Outcomes

- Students analyze and evaluate the factors that affect the current fashion industry and the challenges that designers face today.
- Students analyze characteristics of various fibers and fabrics in relation to finished apparel goods.
- Students demonstrate an understanding of the origins and history of textiles and fashion.
- Students demonstrate the skills necessary to design apparel for the fashion industry.

Core Requirements

Complete 35 units

FASHION 002	Introduction to the Fashion Industry	3
FASHION 004	Fashion Product Analysis	3
FASHION 006/ ID 006	Textiles	3
FASHION 008	History of Fashion to the Twentieth Century	3
FASHION 009	History of Fashion from the Twentieth Century to Present	3
FASHION 010	Clothing and Culture	3
FASHION 030	Basic Industry Sewing	3
FASHION 031	Intermediate Industry Sewing	3
FASHION 036	Flat Pattern I	3
FASHION 037	Flat Pattern II	3
FASHION 038	Fashion Design by Draping	3
FASHION 051	Beginning Fashion Illustration	2

Restricted Electives

Complete 6 units selected from:

FASHION 021/ ID 021	Trend Forecasting for Fashion & Interiors	2
FASHION 022	Fashion Promotion and Marketing	3

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FASHION 032	Advanced Industry Sewing	3
FASHION 033	Alterations and Fit	3
FASHION 042	Couture Techniques I- Embellishments	3
FASHION 052	Advanced Fashion Illustration	2
FASHION 054	Collection Design and Production I	4
FASHION 055	Collection Design and Production II	4
FASHION 058	Fashion Entrepreneurship	3

Minimum Units Required: 41

Complete all courses with a grade of "C" or better.

Fashion Merchandising, Certificate of Achievement

Upon successful completion of the Fashion Merchandising program, the student demonstrates the basic skills and knowledge required for careers in the Fashion Industry. Completion of this certificate opens and expands employment opportunities in the field of fashion.

Program Learning Outcomes

- Students demonstrate an understanding of the origins and history of fashion and trends.
- Students demonstrate an understanding of the relationship between current fashion trends and cultural, social, political, technological and environmental issues.
- Students analyze and evaluate the effects of changing demographics and psychographics on consumer behavior in relation to fashion and related products in today's market.

Core Requirements

Complete 32 units

FASHION 002	Introduction to the Fashion Industry	3
FASHION 004	Fashion Product Analysis	3
FASHION 008	History of Fashion to the Twentieth Century	3
FASHION 009	History of Fashion from the Twentieth Century to Present	3
FASHION 010	Clothing and Culture	3
FASHION 018/ ID 018	Consumer Behavior in Fashion and Interiors	3
FASHION 019/ ID 019	Retailing Fashion and Interiors	3
FASHION 021/ ID 021	Trend Forecasting for Fashion and Interiors	2
FASHION 022	Fashion Promotion and Marketing	3
FASHION 024	Visual Merchandising/Store Design I	3
FASHION 028A	Fashion Event Production	3

Minimum Units Required: 32

Complete all courses with a grade of "C" or better.

Graphic Arts, Certificate of Achievement

Upon successful completion of the Certificate of Achievement in Graphic Arts, the student will demonstrate skills, knowledge, and training for entry-level employment in the field of graphic design and

layout. Specific job titles include but are not limited to the following: Computer Typesetter, Paste-Up Artist, Cartoonist, Graphic Layout and Design, Ad Artist, Computer Artist, Photo Restoration, Photo Manipulation, and Scanner Operator. The student will demonstrate ability to create graphic designs and documents using electronic desktop publishing software, create artwork using digital design software, design World Wide Web pages, and design pre-press publications.

Program Learning Outcomes

1. Students will demonstrate the skills required to complete project based documents using a graphic design software.
2. Students will demonstrate an understanding of graphic design concepts and principles.
3. Students will demonstrate ability to create graphic designs and documents using electronic desktop publishing software, create artwork using digital design software, design World Wide Web pages, and design pre-press publications.
4. Students will demonstrate proficient skills at Typography.

Core Requirements

Complete 22 units

BIM 001A	Beginning Keyboarding	1
GRART 001A	Digital Imaging	2
GRART 002A	Layout Design	3
GRART 003A	Computer Art	2
ART 006	Color and Design	3
GRART 001B	Digital Imaging	2
GRART 002B	Layout Design	3
GRART 003B	Computer Art	2
GRART 006A	Publication Design	4

Restricted Electives

Area A - Complete 3 units selected from:

ENG 079	Preparatory English	5
ENG 001A	Reading and Composition	3

Area B - Complete 3 units selected from:

GRART 004A	Graphic Design for the World Wide Web	2
GRART 004B	Graphic Design for the World Wide Web	2
GRART 006B	Publication Design	4
CSW 023	HTML for Web Publishing	3
CSW 039	Dreamweaver	3

Area C - Complete 3 units selected from:

ART 004	Exploring Art	3
BUS 023	Advertising	3
PHOTO 001A	Introduction to Photography	3

Minimum Units Required: 31

Complete all courses with a grade of "C" or better.

Interior Design, Certificate of Achievement

Upon successful completion of the Interior Design Certificate, students will be able to work from blueprints, make detailed floor plans, and draw furniture to scale. Additionally, they will be able to develop presentations for client approval to include a sketch or scaled floor plan showing furniture arrangement, color charts, and samples of upholstery, draperies, and wall coverings

along with developing estimates for the installation cost of a design project.

Program Learning Outcomes

1. Students will be able to develop comprehensive design concepts for both residential and commercial spaces.
2. Students will demonstrate knowledge of the history of interior design and furniture and the factors that influenced the changes in design styles.
3. Students will be able to work from blueprints, make detailed floor plans, and draw furniture to scale.

Core Requirements

Complete 23 units

ID 002	Introduction to Interior Design	3
ID 006/ FASHION 006	Textiles	3
ID 008	History of Interior Design & Furniture	3
ID 010	Residential Interior Design	3
ID 011	Commercial Interior Design	3
ID 013	Specifications and Professional Practices	3
ID 018/ FASHION 018	Consumer Behavior in Fashion and Interiors	3
ID 021/ FASHION 021	Trend Forecasting for Fashion and Interiors	2

Restricted Electives

Area A - Complete 3 units selected from:

ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3

Minimum Units Required: 26

Complete all courses with a grade of "C" or better.

Media Studies - Radio, Certificate of Achievement

Broadcast professionals work in a variety of fields, including television, radio, multimedia, public relations, and advertising. San Joaquin Delta College's Certificate of Achievement in Media Studies with Concentration in Radio prepares students to enter this exciting field, or continue their education at a four-year institution. Courses in radio and audio production offer both technical and theoretical instruction. Completion of this certificate will prepare the student for employment in the radio and audio production industries.

Program Learning Outcomes

1. Utilize essential postproduction software and equipment for non-linear (computer based) audio editing.
2. Demonstrate knowledge of the broadcasting industry by critically describing and discussing the significant similarities and differences between traditional and non-traditional means of broadcasting.
3. Demonstrate an achievement of professional-level skills in audio production.
4. Demonstrate standard preproduction, production, and postproduction skills including planning,

scripting, personnel selection, equipment selection, and appropriate use of equipment and software.

Core Requirements

Complete 28 units

MCOM 001	Introduction to Mass Communication	3
MUSIC 041	Introduction to Media Arts, Music and Recording Techniques	3
MUSIC 042A	Audio Recording Techniques	3
RTV 001	Introduction to Broadcasting	3
RTV 011	Fundamentals of Audio Production	3
RTV 012	Techniques of Audio Production	3
RTV 013	Audio Production Workshop	4
RTV 021	Fundamentals of Video Recording	3
RTV 031	Media Performance	3

Restricted Electives

Complete 9 units selected from:

BUS 021	Marketing	3
COM ST 001A	Public Speaking	3
DRAMA 038	Acting for the Camera	3
ENG 030	The Film as Literature	3
GRART 001A	Digital Imaging	2
GRART 002A	Layout Design	3
GRART 003A	Computer Art	2
GRART 004A	Graphic Design for the World Wide Web	2
GRART 006A	Publication Design	4
MCOM 010	Introduction to Multimedia	3
MCOM 011	News Writing	3
MCOM 012A	Newspaper Production I	3
MUSIC 043A	Digital Audio Workstations	3
MUSIC 043B	Advanced Digital Audio Workstations	3
MUSIC 044	Audio Postproduction Techniques	3
PHOTO 001A	Introduction to Photography	3
PHOTO 003A	Introduction to Digital Photography	3
RTV 022	Techniques of Video Production	3
RTV 023	Video Production Workshop	4
RTV 098V	Work Experience: Radio and Television	1-8

Minimum Units Required: 37

Complete all courses with a grade of "C" or better.

Media Studies - Television, Certificate of Achievement

Broadcast professionals work in a variety of fields, including television, radio, multimedia, public relations, and advertising. San Joaquin Delta College's Certificate of Achievement in Media Studies with Concentration in Television prepares students to enter this exciting field, or continue their education at a four-year institution. Courses in television offer both technical and theoretical instruction. Completion of this certificate will prepare the student for employment in the television and video production industries.

Program Learning Outcomes

1. Demonstrate knowledge of the broadcasting industry by critically describing and discussing the significant

similarities and differences between traditional and non-traditional means of broadcasting.

2. Demonstrate an achievement of professional-level skills in video production.
3. Demonstrate standard preproduction, production, and postproduction skills including planning, scripting, personnel selection, equipment selection, and appropriate use of equipment and software.
4. Utilize essential postproduction software and equipment for non-linear (computer based) video editing.

Core Requirements

Complete 25 units

MCOM 001	Introduction to Mass Communication	3
RTV 001	Introduction to Broadcasting	3
RTV 011	Fundamentals of Audio Production	3
RTV 012	Techniques of Audio Production	3
RTV 021	Fundamentals of Video Production	3
RTV 022	Techniques of Video Production	3
RTV 023	Video Production Workshop	4
RTV 031	Media Performance	3

Restricted Electives

Complete 12 units selected from:

BUS 021	Marketing	3
COM ST 001A	Public Speaking	3
DRAMA 038	Acting for the Camera	3
ENG 030	The Film as Literature	3
GRART 001A	Digital Imaging	2
GRART 002A	Layout Design	3
GRART 003A	Computer Art	2
GRART 004A	Graphic Design for the World Wide Web	2
GRART 006A	Publication Design	4
MCOM 010	Introduction to Multimedia	3
MCOM 011	News Writing	3
MCOM 012A	Newspaper Production I	3
MUSIC 041	Introduction to Media Arts, Music and Recording Techniques	3
MUSIC 042A	Audio Recording Techniques	3
MUSIC 043A	Digital Audio Workstations	3
MUSIC 043B	Advanced Digital Audio Workstations	3
MUSIC 044	Audio Postproduction Techniques	3
PHOTO 001A	Introduction to Photography	3
PHOTO 003A	Introduction to Digital Photography	3
RTV 013	Audio Production Workshop	4
RTV 098V	Work Experience: Radio and Television	1-8

Minimum Units Required: 37

Complete all courses with a grade of "C" or better.

Multimedia, Certificate of Achievement

Upon successful completion of the Certificate of Achievement in Multimedia the student will demonstrate skills, knowledge, and training necessary for entry-level employment in the specialty areas of the digital media industry: digital imaging, computer art, multimedia

journalist, digital photographer, marketing advisor, newspaper videographer, page designer, audio engineer, web designer, and audio/video post production. Students will work in a manner that mirrors industry standards and will build a professional portfolio that will help them pursue jobs in their field as well as higher education.

Program Learning Outcomes

1. Students will exhibit professional behavior and work ethic, as well as demonstrate the ability to design multimedia projects that communicate specific ideas.
2. Students will demonstrate competency using information and technology in the multimedia platform.
3. Students will demonstrate an awareness of a variety of software used in multimedia production and the ways that this software can be integrated in the development of projects.

Major Requirements - Core

Complete 25 units

GRART 001A	Digital Imaging	2
GRART 003A	Computer Art	2
MCOM 001	Introduction to Mass Communication	3
MCOM 005	Social Media and Society	3
MCOM 010	Introduction to Multimedia	3
PHOTO 001A	Introduction to Photography	3
PHOTO 003A	Introduction to Digital Photography	3
RTV 011	Fundamentals of Audio Production	3
RTV 021	Fundamentals of Video Production	3

Minimum Units Required: 25

Complete all courses with a grade of "C" or better.

Photography, Certificate of Achievement

PENDING APPROVAL

The Photography Certificate will provide the student with a strong foundation in aesthetic principles as well as a range of practical photographic techniques needed for college transfer, entry into the photographic workplace or for artistic expression. Students are encouraged to develop a personal, expressive style, achieve technical excellence and examine the role of photography in society. Career Opportunities for photographers include Advertising photographer, Aerial and underwater photographer, Art Documentation Photographer, Corporate Photographer, Commercial Photographer - Architectural, Commercial Photographer - Portrait, Commercial Photographer - Product, Commercial printing and reproduction, Darkroom Lab Technician and/or Manager, Digital imaging Technician, Digital Photographic Illustrator, Documentary and Editorial Photographer, Fashion Photographer, Film-Set Photographer, Fine Art Photographer, Fine Art Printing Assistant, Forensic Photographer, Free-lance photographer, Graphic artist, Laboratory manager, Nature Photographer, Photo Editor, Manager for Fine Art or Commercial Photography Studio, Photographic Assistant, Photographic Retoucher, Photojournalist, Professional Photo-Lab Custom Printer, Photographic sales, Sports Photographer, Stock Photographer, Studio

and wedding photography, Theater Production Photographer, Wedding and Event Photographer.

Program Learning Outcomes

1. Students will demonstrate the ability to use the traditional tools of photography. Including developing film, printing photographs, and critiquing photographs.
2. Students will demonstrate skills in digital technologies. Including using a digital camera, properly preparing files to print, and creating a final portfolio.
3. Students will demonstrate the ability to apply concepts and aesthetics to create and evaluate photographic images.
4. Students will develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Core Requirements

Complete 16 units

ART 006	Color and Design	3
GRART 001A	Digital Imaging	2
PHOTO 001A	Introduction to Photography	3
PHOTO 001B	Intermediate Photography	3
PHOTO 003A	Introduction to Digital Photography	3
PHOTO 034	Workshop Projects	2

Restricted Electives

Complete 3 units selected from:

ART 007A	Painting I	3
ART 020A	Sculpture I	3
ART 040A	Printmaking I	3
ART 064A	Ceramics I	3

Minimum Units Required: 19

Complete all courses with a grade of "C" or better.

Stagecraft, Certificate of Achievement

Upon completion of the Certificate of Achievement in Stagecraft, the student will demonstrate skills, knowledge, and training necessary for entry-level employment in the field of stagecraft. Specific job titles include stagehand, scenic carpenter, lighting technician, scenic artist, costume stitcher, and dresser. The student will demonstrate the ability to follow industry standard practices in the areas of scenery, lighting, costume, and/or sound technology for use in live theatrical performance.

Program Learning Outcomes

1. Students will perform critical analysis of production documents and play scripts for the completion of theatrical production elements.
2. Students will successfully follow industry practices in stagecraft.
3. Students will exhibit professional behavior and work ethic.
4. Students will successfully perform production stage crew duties for live theatrical productions..

Core Requirements

Complete 11 units

DRAMA 019A	Technical Theatre I	4
DRAMA 019B	Technical Theatre II	4
DRAMA 040A	Technical Theatre Portfolio I	1
DRAMA 040B	Technical Theatre Portfolio II	1
DRAMA 040C	Technical Theatre Portfolio III	1

Restricted Electives

Area A - Stagecraft - Complete 6 units selected from:

DRAMA 015	Make-Up for The Theatre	3
DRAMA 020	Scenic Painting	3
DRAMA 021	Stage Sound	3
DRAMA 022	Stage Lighting	3
DRAMA 023	Stage Costume	3
DRAMA 024	Scenic Construction	3

Area B - Production - Complete 6 units selected from:

DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 029C	Repertory Workshop: Crew III	1-2
DRAMA 029D	Repertory Workshop: Crew IV	1-2
DRAMA 040D	Technical Theatre Portfolio IV	1
DRAMA 044B	Traditional Theatre Production: Crew	1-3
DRAMA 047B	Musical Theatre Production: Crew	1-3

Minimum Units Required: 23

Complete all courses with a grade of "C" or better.

COUNSELING AND SPECIAL SERVICES DIVISION

Dean: Delecia J. N. Robertson, M.B.A

Director of Career, Transfer and Counseling Center: Jazmin Amen, M.S.

Director of Student Support Services: Danita Scott-Taylor, M.S.

Student Success and Support Program Manager: Hong Pham, M.A.

General Counseling Center/Student Success and Support Program
DeRicco 234
(209) 954-5151, ext. 6276
FAX: (209) 954-3758
www.deltacollege.edu/dept/guidance/index.html
www.deltacollege.edu/dept/guidance/index.html

Career Transfer Center
DeRicco 219
(209) 954-5151, ext. 6338
FAX: (209) 954-3760
ctc.deltacollege.edu

EOPS/CARE Counseling Center
DeRicco 234
(209) 954-5151, ext. 6296
FAX: (209) 954-3762
www.deltacollege.edu/dept/eops/index.html

DSPS Counseling Center
DeRicco 234
(209) 954-5151, ext. 6272
FAX: (209) 954-3762
www.deltacollege.edu/dept/dsps/index.html

AFFIRM Center
DeRicco 151
(209) 954-5151, ext. 6150
FAX: (209) 954-3762
www.deltacollege.edu/dept/guidance/AFFIRMLearningCommunity.html
www.deltacollege.edu/dept/guidance/AFFIRMLearningCommunity.html

Counseling/South Campus at Mountain House
Office: 301
(209) 833-7900

Faculty: Stella Alonzo, Ed.D.; Stacey Robles Bagnasco, Ed.D.; Heather Bradford, M.A.; Anthony Canela, M.S.; Roy Desmangles, M.S.; Guadalupe Diaz, M.A.; Bruce Eigbrett, J.D.; Diane Feneck, M.S.; Daniel Fernandez, M.S.; Vicky Franco, M.A.; Randolph E. Gaines, M.Ed.;

Anita

Gautam, M.S.W.; Raichelle Grays, M.S.; Jeffry LaJeunesse, M.S.; Solyn Laney, Ed.D.; James B. Leach, M.S.; Debra Louie, M.S.; Lydia Macy, M.S.; Becky Miller, M.A.; Pam Muckenfuss, M.S.; Grant Narita, M.S.; Sharmila Nathaniel, M.A.; Ysaura Olivo, M.S.; Pablo Ortega, M.A.; Becky Plaza, M.S.; Alina Sala, Ed.D.; Shaun Suy, M.S.; Janice Takahashi, M.A.; Cheuyengther Xiong, Ed.D.

Subjects

- Adaptive Learning - Transition to Work (ALTW)
- Guidance (GUID)
- Learning Skills (LS)

Counseling Services

Academic, career, and personal counseling; academic probation and early alert support services; financial aid advising; orientation counseling; services for non credit students; development of student education plans; support for student athletes; career assessment and interpretation; transcript review, and services for international students.

Special Services and Counseling Programs

- Student Success and Support Program
- AFFIRM Program
- Puente Project
- Athletic counseling services
- International Students counseling services
- Veteran counseling services
- Middle College High School counseling services
- Probation counseling services
- EOPS/CARE Program
- DSPS Program

Career Transfer Center Services

- Career
- Pre-Employment
- Reentry
- Transfer Services

Student Success and Support Program

A program to increase California Community College student access and success through the provision of core matriculation services including assessment/placement, orientation to college, counseling/advising, and other education planning services.

DISABILITY SUPPORT PROGRAMS AND SERVICES (DSPS)

Director: Danita Scott-Taylor, M.A.

DeRicco 234
(209) 954-5151, ext. 6272
FAX: (209) 954-3758

Faculty: Bruce Eigbrett, J.D.; Becky Miller, M.A.; Alina Sala, Ed.D

DSPS provides accommodations, advocacy, instruction, and access to academic programs for students with verified disabilities. Services are based on individual functional and/or educational limitations as detailed in documentation from a certifying professional. Accommodations are determined by a DSPS counselor during an hour intake appointment. Accommodations must be reasonable and will not fundamentally alter course curriculum or degree and certificate requirements. Students requiring DSPS assistance must self-identify, and are strongly encouraged to plan early. Counselor appointments are scheduled two weeks in advance. Students must arrive promptly and submit disability verification at the time of intake or be rescheduled. New students are encouraged to call or visit DSPS prior to attendance.

Subjects

- Learning Skills (LS)
- Adaptive Learning - Transition to Work (ALTW)

Services

- Specialized Counseling
- Disability Management Strategies
- Interpreting/Captioning
- Alternate Media and Adapted Computer Technology
- Accommodated Testing
- Workability III/Job Placement Program for Department of Rehabilitation Clients
- Learning Disability Services
- Learning Skills Courses (credit)
- Adapted Physical Education Classes (through Physical Education Department)
- Mobility Assistance
- Adaptive Learning - Transition to Work educational assistance courses (non-credit)

EXTENDED OPPORTUNITIES PROGRAMS AND SERVICES (EOPS)

Director: Danita Scott-Taylor, M.A.

DeRicco 234
(209) 954-5151, ext. 6296

Faculty: Stella Alonzo, Ed.D; Guadalupe Diaz, M.A.;
Anita Gautam, M.S.W; Solyn Laney, Ed.D.

Department

- Guidance

Services

- Individualized Personal and Academic Counseling
- Priority Registration
- Assistance Purchasing Required Textbooks*
- Grants*
- Transportation Assistance*
- Textbook Lending Library
- Orientation Programs and Registration Services
- Student Success Workshops and Seminars
- Tutoring
- Transfer Services
- College and University Tours
- Referrals to Campus and Community Resources
- Summer Readiness Program (SRP)
- Student Success Academy (SSA)

HEALTH SCIENCES DIVISION

Division Dean: Julie D. Kay, M.S.N.

Director of Health Sciences: Lisa Lucchesi, M.S.N.

Locke 203
(209) 954-5454
FAX: (209) 954-5798

Faculty: Roy Blanco, M.S.N.; Shelba Durston, M.S.N.; Caitlynn Hansen, M.S.; Geronimo Hinayon, DNP; Sue Kidwell, M.A.; Donna LeBaron, M.S.N.; Richard Meza, M.S.N.; Mary Neville, M.S.N.; Allison Pieretti, M.S.N.; Lori Riley-Weigel, M.S.N.; Lisa Stoddart, M.S.N.; Carole Vance, M.A.; Cheryl Wells, M.S.N.

Subjects

- Communication Disorders, SLPA (COMM DIS)
- Family and Consumer Sciences (FCS)
- Health Sciences (HS)
- Nursing, ADN (NURSADN)
- Psychiatric Technology, PT (NURSPT)
- Radiologic Technology, RT (RAD)

Degree Programs

- Family and Consumer Sciences, Associate in Science
- Health Science, Associate in Science
- Nursing, Associate in Science
- Psychiatric Technology, Associate in Science
- Speech Language Pathology Assistant, Associate in Science

Certificate Programs

- Psychiatric Technician
- Radiological Technician

Health Sciences Division Degree Programs

Family and Consumer Sciences, Associate in Science

The Family and Consumer Sciences Program educates students in general life skills that can be applied to family life and to success in the workplace or to transfer toward a Bachelor's Degree as a generalist in Family and Consumer Science. Through a broad base of coursework that includes life management, home finance, nutrition, child development, interior design and basic sewing, students gain practical and theoretical knowledge that improves the quality and standards of individual and family life and promotes informed consumerism.

Program Learning Outcomes

1. The graduate selecting courses in Life and Home Management will create a plan for achievement of personal, educational and life goals and will demonstrate knowledge of personal financial concepts and apply it to the home setting.

2. The graduate selecting courses in Nutrition will use the Dietary Guidelines for Americans to create and critique a diet plan for individuals and the family and will evaluate nutritional claims using principles of the scientific method.
3. The graduate selecting courses in Child Development will describe benchmarks for development during infancy, childhood and adolescence and apply that knowledge in an educational setting.
4. The graduate selecting courses in Child Development will recognize differences in cultural child-rearing practices.
5. The graduate selecting courses in Fashion and Interior Design will produce projects that demonstrate entry level skills.
6. The graduate selecting the course in Marriage and Family will recognize effective strategies for developing meaningful relationships and communication within families.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

CDEV 021	Child and Adolescent Development	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 063	Child Discipline	1
FASHION 030	Basic Industry Sewing	3
FCS 002	Life Management	3
FCS 003	Home Management and Finance	3
FCS 005	Basic Nutrition	3
FCS 006	Nutrition	3
FCS 023	Marriage and the Family	3
ID 002	Introduction to Interior Design	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Health Science, Associate in Science**

The Associate of Science degree in Health Science provides students with a broad understanding of health related studies, health care systems, and health issues in a multicultural society. The degree also provides the student with a basic understanding of health-related studies, prepares students to work at many entry levels within the health care industry, and provides a foundation for public health, community health, health care administration, or occupational health and safety programs.

Program Learning Outcomes

1. Students will demonstrate basic understanding of health science research, health care systems, and health issues.
2. Students will integrate and utilize knowledge from multiple disciplines to solve problems.
3. Students will demonstrate critical thinking skills and the use of the scientific method.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 15 units

BIOL 031	Human Anatomy	4
BIOL 032	Human Physiology	5
CS 011	Fundamentals of Computer Science	3
H S 036	Medical Terminology and Speech	3

Major Requirements - Restricted Electives

Area A - Complete 4 units selected from:

MATH 012	Introduction to Probability and Statistics	4
MATH 092G	Intermediate Algebra	4
MATH 092S	Intermediate Algebra (STEM)	5

Area B - Complete 6 units selected from:

ECON 001A	Principles of Macroeconomics	3
H S 019/FCS 019	Human Development	3
POLSC 001	American Government and Institutions	3
PSYCH 001	Introduction to Psychology	3
SOCIO 001A	Introduction to Sociology	3

Minimum Major Units Required: 25

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Nursing, Associate in Science**

Upon successful completion of the Associate Degree in Nursing Program, the graduate demonstrates the skills, knowledge and training to successfully complete the National Council Licensing Examination for Registered Nurses (NCLEX-RN) and is qualified to provide patient care in a variety of health care settings within the scope of practice of the Registered Nurse.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes through nursing care that incorporates professionalism, leadership, inter-professional collaboration, teamwork, and quality improvement.
2. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes by managing care that promotes health maintenance through client advocacy and education.
3. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes by providing therapeutic communication to clients, their families/significant others.
4. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes by managing care that addresses the emotional, mental, social, and cultural needs of clients, their families/significant others.
5. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes by managing (1) the activities of daily living for clients, (2) comfort measures of clients, and (3) safe and accurate medication administration and parenteral therapies to clients.
6. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes which are based upon decisions and care that prevent and / or manage complications or health problems related to existing conditions, treatments, or procedures by providing evidence-based care to multiple clients with acute, chronic and/or life threatening physical conditions.
7. Through application of the nursing process, utilizing best practices across the life-span in a variety of settings, the graduate will facilitate optimum client outcomes by providing quality, effective nursing care in an environment that is safe for clients, their

families/significant others and other health care personnel.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- BIOL 031 or BIOL 032, SOCIO 001A and FCS 019 or HS 019 may be double counted to meet both general education and major requirements.

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 54.5 units

BIOL 031	Human Anatomy	4
BIOL 032	Human Physiology	5
HS 019/FCS 019	Human Development	3
NURSADN 001	Fundamentals of Nursing Practice	5
NURSADN 002	Introduction Medical-Surgical Nursing	5
NURSADN 004	Maternal, Newborn, and Reproductive Health Nursing	4
NURSADN 005	Infancy through Young Adult Nursing	4
NURSADN 006	Intermediate Medical-Surgical Nursing	4.5
NURSADN 007	Mental Health and Psychiatric Nursing	4
NURSADN 008	Advanced Medical-Surgical Nursing	5
NURSADN 009	Transition to Nursing Practice	5
PSYCH 001	Introduction to Psychology	3
SOCIO 001A	Introduction to Sociology	3

Major Requirements - Restricted Electives

Complete 4 units selected from:

BIOL 022	Introduction to Medical Biology	4
BIOL 023	General Microbiology	5

Minimum Major Units Required: 58.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 73.5

Psychiatric Technology, Associate in Science

Upon successful completion of the Psychiatric Technology Program, the student demonstrates skills and knowledge to successfully complete the State of California examination for licensure as a Psychiatric Technician.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

- The graduate will participate in providing care for clients with acute, chronic or life-threatening physical health conditions.
- The graduate will reduce the potential for clients to develop complications or health problems related to treatments, procedures or existing conditions.
- The graduate will provide care related to the administration of medications and monitors clients who are receiving parenteral therapies.
- The graduate will assist in the promotion of physical health and well-being by providing comfort to clients and assistance in the performance of their activities of daily living.
- The graduate will deliver optimal health care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation.
- The graduate will provide care that assists with the promotion and support of the emotional, mental and social well-being of clients.
- The graduate will meet client needs through providing nursing care that contributes to the enhancement of the health care delivery setting and protects clients and health care personnel by contributing to the protection of clients and health care personnel from health and environmental hazards.
- The graduate will meet client needs through providing nursing care that contributes to the enhancement of the health care delivery setting and protects clients and health care personnel by collaborating with health care team members to facilitate effective client care.
- The graduate will provide nursing care for clients that incorporates knowledge of expected stages of growth and development and prevention and/or early detection of health problems.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 44 units

NURSPT 010	Foundations of Nursing	3
NURSPT 010L	Foundations of Nursing Lab	2
NURSPT 011	Medical Surgical Nursing I	2.5
NURSPT 011L	Medical Surgical Nursing I Lab	2
NURSPT 012	Medical Surgical Nursing II	2.5
NURSPT 012L	Medical Surgical Nursing II Lab	2
NURSPT 020	Pharmacology I	1.5
NURSPT 021	Pharmacology II	1.5
NURSPT 022	Pharmacology III	1
NURSPT 030	Developmental Disabilities Nursing	3.5
NURSPT 030L	Developmental Disabilities Nursing Lab	3
NURSPT 031	Advanced Developmental Disabilities Nursing	3.5
NURSPT 031L	Advanced Developmental Disabilities Nursing Lab	3
NURSPT 040	Psychiatric Nursing I	3.5
NURSPT 040L	Psychiatric Nursing I Lab	3
NURSPT 041	Psychiatric Nursing II	3.5
NURSPT 041L	Psychiatric Nursing II Lab	3

Minimum Major Units Required: 44

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 68**Speech Language Pathology Assistant (SLPA), Associate in Science**

Upon successful completion of the Associate Degree in the Speech Language Pathology Assistant Program, the graduate is able to apply for licensure with the State of California. A licensed Speech Language Pathology Assistant (SLPA) works under the direction of a supervising Speech Language Pathologist (SLP) and demonstrates skills, knowledge and training to practice in a variety of settings within the parameters of the SLPA scope of practice. A licensed SLPA may work with infants, children, adults and seniors in educational, clinical and medical settings. Limitations on reimbursement for services provide by SLPAs from potential third-party insurers, may affect employment opportunities in certain settings. The graduate will be able to conduct screenings for speech, language and hearing disorders without interpretation, administer treatment as prescribed by the supervising Speech Language Pathologist and assist with clinical documentation.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. The graduate demonstrates appropriate workplace behaviors related to the American Speech and Hearing Association Code of Ethics and the scope of practice for a Speech Language Pathology Assistant.
2. The graduate meets the educational requirements for licensure as a Speech Language Pathology

Assistant with the State of California, Medical Quality Assurance, Speech Language Pathology and Audiology and Hearing Aid Dispensers Board.

3. The graduate provides program operational assistance to the supervising Speech Language Pathologist by completing clerical tasks, preparing appropriate therapy materials, scheduling, facilitating public relations and maintaining equipment.
4. The graduate provides direct treatment assistance to patients or clients in multiple settings, with diverse populations, under the supervision of a speech language pathologist by implementing treatment plans, completing speech and language screenings without interpretation, assisting with evaluations and documenting patient/client progress.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 40.5 units

CDEV 034	Children with Special Needs	3
COM ST 007	Intercultural Communication	3
COMM DIS 001A	Introduction to Communication Disorders	3
COMM DIS 001B	Speech, Language and Hearing Development	3
COMM DIS 003	Therapy Analysis and Field Observation	3.5
COMM DIS 005	Therapy Materials and Procedures	3
COMM DIS 007	Service Delivery Issues for the SLPA	3
COMM DIS 009	Assessment and Remediation	6 - 6.5
H S 019/ FCS 019	Human Development	3
HUM 004/ ANTHR 004	Introduction to Linguistics	3
PSYCH 001	Introduction to Psychology	3
SL 001	Elementary American Sign Language I	4

Major Requirements - Restricted Electives

Area A - Complete one course selected from:

BIOL 001	Core Biology	4
BIOL 011	Humans in the Biological World	4
BIOL 031	Human Anatomy	4
BIOL 032	Human Physiology	5
BIOL 033	Anatomy and Physiology	6

Area B - Complete one course selected from:

BIM 038	Office Technologies and Procedures	3
BIM 043	Records Management in Public Agencies	3
CS 011	Fundamentals of Computer Science	3
CSA 020	Computer Information Systems Applications	3

Minimum Major Units Required: 47.5

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Health Sciences Division Certificate Programs****Psychiatric Technician, Certificate of Achievement**

Upon successful completion of the Psychiatric Technician program, the student demonstrates skills and knowledge to successfully complete the State of California examination for licensure as a Psychiatric Technician and is qualified to provide care to clients in a variety of health care settings within the scope of practice of the Psychiatric Technician. NOTE: Please refer to the current catalog for information about programs with Special Admission Requirement.

Program Learning Outcomes

1. The graduate will participate in providing care for clients with acute, chronic or life-threatening physical health conditions.
2. The graduate will reduce the potential for clients to develop complications or health problems related to treatments, procedures or existing conditions.
3. The graduate will provide care related to the administration of medications and monitors clients who are receiving parenteral therapies.
4. The graduate will assist in the promotion of physical health and well-being by providing comfort to clients and assistance in the performance of their activities of daily living.
5. The graduate will deliver optimal health care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation.
6. The graduate will provide care that assists with the promotion and support of the emotional, mental and social well-being of clients.
7. The graduate will provide nursing care for clients that incorporates knowledge of expected stages of

growth and development and prevention and/or early detection of health problems.

8. The graduate will meet client needs through providing nursing care that contributes to the enhancement of the health care delivery setting and protects clients and health care personnel by contributing to the protection of clients and health care personnel from health and environmental hazards.
9. The graduate will meet client needs through providing nursing care that contributes to the enhancement of the health care delivery setting and protects clients and health care personnel by collaborating with health care team members to facilitate effective client care.

Core Requirements

Complete 44 units

NURSPT 010	Foundations of Nursing	3
NURSPT 010L	Foundations of Nursing Lab	2
NURSPT 011	Medical Surgical Nursing I	2.5
NURSPT 011L	Medical Surgical Nursing I Lab	2
NURSPT 012	Medical Surgical Nursing II	2.5
NURSPT 012L	Medical Surgical Nursing II Lab	2
NURSPT 020	Pharmacology I	1.5
NURSPT 021	Pharmacology II	1.5
NURSPT 022	Pharmacology III	1
NURSPT 030	Developmental Disabilities Nursing	3.5
NURSPT 030L	Developmental Disabilities Nursing Lab	3
NURSPT 031	Advanced Developmental Disability Nursing	3.5
NURSPT 031L	Advanced Developmental Disability Nursing Lab	3
NURSPT 040	Psychiatric Nursing I	3.5
NURSPT 040L	Psychiatric Nursing I Lab	3
NURSPT 041	Psychiatric Nursing II	3.5
NURSPT 041L	Psychiatric Nursing II Lab	3

Minimum Units Required: 44

Complete all courses with a grade of "C" or better.

Radiological Technician, Certificate of Achievement

Radiologic Technician is a 24-month program offered at San Joaquin General Hospital and approved by the Joint Review Committee on Education in Radiologic Technology. Completion of the program allows graduates to take the state and national examination for registration in Medical Radiologic Technology.

The student must successfully complete prerequisite courses in mathematics, anatomy, physiology, chemistry, and medical terminology before admission to the program. The course of study includes theory related to radiography, x-ray, radium physics, radiographic techniques, and application of theory in the clinical laboratory in a radiology department. A 40-hour per week training schedule is maintained.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcome

Radiologic Technician is a 24-month certificate program offered at San Joaquin General Hospital and approved by the Joint Review Committee on Education in Radiologic Technology. Completion of the certificate allows students to take the state and national examination for registration in Medical Radiologic Technology. The student must successfully complete prerequisite courses in mathematics, anatomy, physiology, chemistry, and medical terminology before admission to the program. The course of study includes theory related to radiography, x-ray, radium physics, radiographic techniques, and application of theory in the clinical laboratory in a radiology department. A 40-hour per week training schedule is maintained.

Core Requirements

Complete 80.5 units

RAD 010	Introduction to Radiography	3.5
RAD 010A	Beginning Clinical Laboratory	3
RAD 010B	Intermediate Clinical Laboratory	6
RAD 011	Radiographic Positioning and Terminology	6
RAD 012	Radiographic Anatomy	2
RAD 013	Principles of Radiographic Technique	4
RAD 014	Image Processing	1
RAD 020	Advanced Radiographic Positioning and Terminology	4
RAD 020A	Advanced Clinical Laboratory	8
RAD 021	Advanced Radiographic Anatomy	2
RAD 022	Fundamental of X-Ray and Radium Physics	4
RAD 023	Positioning and Technical Laboratory	0.5
RAD 030	Intermediate Positioning and Technical Laboratory	0.5
RAD 030A	Senior Clinical Laboratory	5
RAD 030B	Advance Senior Clinical Laboratory	10
RAD 031	Advanced Positioning and Technical Laboratory	1
RAD 032	Sectional Anatomy	2
RAD 040	Senior Review, Advanced Radiation Protection and Fluoroscopic Systems	6
RAD 040A	Radiographic Laboratory	9
RAD 041	Radiographic Pathology and Image Critique	3

Minimum Units Required: 80.5

Complete all courses with a grade of "C" or better.

HUMANITIES, SOCIAL SCIENCE, EDUCATION, KINESIOLOGY, AND ATHLETICS DIVISION

Division Dean: Daryl Arroyo (Acting), Ph.D.

Director of Athletics: Daryl Arroyo, Ph.D.

Director of Peace Officer Standards and Training (POST):
Bruce Able (Acting), B.S.

Police Academy Coordinator: Kim Castro, B.A.

Budd 319
(209) 954-5262

Athletics Office
Budd 119
(209) 954-5176
FAX: (209) 954-5696

Faculty: Daniel Baker, M.A.; Gary T. Barlow, M.A.; Joel Beutel, M.A.; Angela Beyer DaCruz, M.S.; Joel Blank, J.D.; Nena Bush, M.S.; Kim Castro, B.A.; Ulrike G. Christofori, M.A.; Suzanne Coleman, M.A.; Annlee Dolan, Ph.D.; William D. Ferraiolo, Ph.D.; Rosalind Beth Gottfried, Ph.D.; Lynn A. Hawley, M.A.; Jeffrey R. Hislop, B.A.; Gina C. Johnson, M.A.; Lauryn Jordan, M.A.; Annaliza Lagrutta, M.A.; David Main, M.A.; Elizabeth Maloney, Ed.D.; Michael Maroney, M.A.; Harry J. Mersmann, Ph.D.; Karen Jade Lee Millsop, Ph.D.; Douglas Murray, M.A.; Melissa Neal, Ph.D.; Reed Peters, M.S.; Richard Ressa, M.A.; Margaret Scully-Linder, Ph.D.; Sarah Seekatz, Ph.D.; Ramon Sewnath, Ph.D.; Adrienne Sorenson, M.A.; Rachel Standish, Ph.D.; Wesley A. Swanson, Ph.D.; David A. Terry, M.A.; Eduardo Torres, M.A.; Cirian Villavicencio, M.A.; Evan Wade, M.A.; Marcelle P. Williams, M.A.

Subjects

- Administration of Justice (A J)
- Anthropology (ANTHR)
- Athletics (ATH)
- Child Development (CDEV)
- Civilizations (CIVIL)
- Economics (ECON)
- Education (EDUC)
- Foster and Kinship Care (FKC)
- Health Education (H ED)
- History (HIST)
- Humanities (HUM)
- Physical Education Activities (PEACTIV)
- Physical Education Theory (PETHEORY)
- Philosophy (PHILO)
- Political Science (POLSC)
- Psychology (PSYCH)
- Religion (RELGN)
- Sociology (SOCIO)

Degree Programs

- Administration of Justice, Associate in Science for Transfer
- Anthropology, Associate in Arts for Transfer
- Correctional Science, Associate in Science
- Early Childhood Education, Associate in Arts
- Early Childhood Education, Associate in Science for Transfer
- Elementary Teacher Education, Associate in Arts for Transfer
- History, Associate in Arts
- History, Associate in Arts for Transfer
- Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts
- Kinesiology, Associate in Arts for Transfer
- Law Enforcement, Associate in Science
- Physical Education, Associate in Science
- Police Science, Associate in Science
- Political Science, Associate in Arts for Transfer
- Psychology, Associate in Arts
- Psychology, Associate in Arts for Transfer

Certificate Programs

- Basic Peace Officer Academy
- Correctional Science
- Early Childhood Education Associate Teacher
- Early Childhood Education Master Teacher
- Early Childhood Education Site Supervisor
- Early Childhood Education Teacher
- Fitness Specialist
- Law Enforcement
- Mental Health Specialist
- Substance Abuse Counselor

Special Note: Transferability of Physical Education courses to the University of California is limited to a total of 4 units of activity courses and 8 units of Theory/Academic courses. See a counselor or www.assist.org for additional information.

Humanities, Social Science, Education, Kinesiology, and Athletics Division Degree Programs

Administration of Justice, Associate in Science for Transfer

The Associate of Science in Administration of Justice for Transfer degree is designed to provide a seamless pathway to transfer to a California State University for students who wish to major in Administration of Justice. The curriculum addresses basic knowledge and skills required in the criminal justice major. With an AS-T in Administration of Justice, the student will be ready to transfer to a CSU campus to finish a bachelor's degree in Criminal Justice/Criminology. Depending on the CSU campus, specializations may include corrections, law enforcement, forensics, criminal justice research/management, legal studies for prosecutorial or jurist careers, or criminology. A bachelor's degree in Criminal Justice/Criminology may lead to careers with federal, state, or local law enforcement, probation, parole, and correctional institutions, specialized criminal investigations, forensics, criminalistics, or a career in the study of crime causation or victimology.

Program Learning Outcomes

1. Students will demonstrate the knowledge required to recognize elements, classifications and definitions involving crimes against persons and crimes against property.
2. Students will develop a plan to achieve a career in their desired area of the criminal justice system.
3. Students will demonstrate the ability to effectively communicate orally and in writing the results of analysis and understanding.
4. Students will demonstrate the ability to identify how the U.S. Constitution applies to the actions and conduct of peace officers.
5. Students will demonstrate the ability to define and use criminal justice system key terms, concepts and theories.
6. Students will demonstrate the ability to reflect critically on developments in the criminal justice policy and the relationship of these policies to the wider political and social environment.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis

and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 6 units

AJ 021	Criminal Justice in Society	3
AJ 022	Concepts of Criminal Law	3

Major Requirements - Restricted Electives

Area A - Complete 6 units selected from:

AJ 023	Principles and Procedures of The Justice System	3
AJ 024	Legal Aspects of Evidence	3
AJ 025	Criminal Investigation	3
AJ 028	Juvenile Law and Procedure	3
AJ 040	Community Relations	3
AJ 051	Introduction to Correctional Science	3

Area B - Complete 6 units selected from:

AJ 023	Principles and Procedures of The Justice System	3
AJ 024	Legal Aspects of Evidence	3
AJ 025	Criminal Investigation	3
AJ 028	Juvenile Law and Procedure	3
AJ 031	Report Preparation	3
AJ 040	Community Relations	3
AJ 051	Introduction to Correctional Science	3
AJ 053	Correctional Interviewing and Interventions	3
AJ 054	Introduction to Probation and Parole	3
AJ 055	Control and Supervision in Corrections	3
AJ 057	Legal Aspects of Corrections	3
MATH 012	Introduction to Probability and Statistics	4
PSYCH 001	Introduction to Psychology	3
SOCIO 001A	Introduction to Sociology	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Anthropology, Associate in Arts for Transfer

The Associate in Arts in Anthropology for Transfer is designed for students planning to transfer to a California State University (CSU) with a major in Anthropology.

Anthropology is the study of humanity, including its culture, biology, language and history. It is an interdisciplinary field that combines anthropological perspectives and concepts with those of biology, geology, psychology, sociology, and mathematics. Courses in anthropology provide students with an opportunity to gain a variety of important skills which are essential for success in today's workforce. These include critical thinking and problem solving skills, verbal and written communication skills, as well as the ability to collaborate and work effectively and responsibly as a member of a team. All of this is achieved within the context of gaining a thorough understanding of the

fundamental concepts of anthropology. The completion of this degree ensures preparation for upper division work for students seeking to transfer and pursue a baccalaureate degree in Anthropology from a California State University (CSU).

Program Learning Outcomes

1. Students will integrate concepts from other disciplines (e.g., Mathematics, Sociology, Geology) and apply them to issues in anthropology.
2. Students will develop critical thinking skills and problem solving techniques for problems in anthropology.
3. Students will transfer to the CSU system as anthropology majors.
4. Students will collaborate and communicate within group settings to achieve common goals.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 9 units

ANTHR 001	Cultural Anthropology	3
ANTHR 002	Biological Anthropology	3
ANTHR 010	Introduction to Archeology	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

ANTHR 002L	Biological Anthropology Laboratory	1
ANTHR 004	Introduction to Linguistics	3
MATH 012	Introduction to Probability and Statistics	4

Area B - Complete 3 units selected from:

ANTHR 002L	Biological Anthropology Laboratory	1
ANTHR 004	Introduction to Linguistics	3
BIOL 031	Human Anatomy	4
GEOL 001A	Physical Geology w/Lab	4
GEOL 005	Earth Science	3
GEOL 005L	Earth Science Laboratory	1
MATH 012	Introduction to Probability and Statistics	4
PSYCH 004	Introduction to Research Methods in Psychology	3

Area C - Complete 3 units selected from:

ANTHR 006	Introduction to North American Indians	3
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GEOG 002	Cultural Geography	3
PSYCH 001	Introduction to Psychology	3
RELGN 014B	Great Religions of the World	3
SOCIO 001A	Introduction to Sociology	3
SOCIO 027	Gender in Contemporary Society	3
SOCIO 033	Social Inequity in the United States	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Correctional Science, Associate in Science

Upon successful completion of the Associate in Science Degree in Correctional Science, the student demonstrates fulfillment of the lower-division requirements for any accredited baccalaureate institution; preparation for participation in the Basic Corrections Peace Officer Academy; or a job in corrections.

Program Learning Outcomes

1. The student will apply the skills that are preparation for participation in the Basic Corrections Peace Officer Academy; or entry level job skills in corrections.
2. The student demonstrates fulfillment of the lower-division requirements for any accredited baccalaureate institution.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 27 units

A J 022	Concepts of Criminal Law	3
A J 031	Report Preparation	3
A J 041	Narcotics Investigation and Control	3
A J 051	Introduction to Correctional Science	3
A J 053	Correctional Interviewing and Interventions	3
A J 055	Control and Supervision in Corrections	3
A J 057	Legal Aspects of Corrections	3
CS 011	Fundamentals of Computer Science	3
SOCIO 001A	Introduction to Sociology	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

A J 028	Juvenile Law and Procedures	3
A J 054	Introduction to Probation and Parole	3

Area B - Complete 3 units selected from:

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
POLSC 001	American Government and Institutions	3

Minimum Major Units Required: 33

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Early Childhood Education, Associate in Arts**

The Early Childhood Education Program educates and trains students in developmentally appropriate practice guided by principles established by the National Association for the Education of Young Children to work with children from infancy through middle childhood. Through a broad range of theoretical perspectives, students examine child growth and development, gain experience in observation and use of appropriate guidance techniques, learn to plan and implement curriculum, and demonstrate knowledge of state licensing regulations for child care and development programs. The Early Childhood Education Program prepares students to teach in child care and development programs, to transfer to four-year institutions, and to participate in the broader society as child advocates. Program curriculum is aligned with the Child Development Permit Matrix and with the Curriculum Alignment Project.

Program Learning Outcomes

1. Students will demonstrate understanding of early childhood principles and practices required for employment including maintaining health and safety standards, creating appropriate early learning environments, complying with state licensing regulations and guiding children's behavior with respectful and supportive method.

2. Students will utilize various observational techniques to assess children's learning and development and use the results to plan developmentally, culturally and linguistically appropriate curriculum.
3. Students will describe and distinguish major theories of child development to support in planning appropriate early experiences for children.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 24 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3

Minimum Major Units Required: 24

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Early Childhood Education, Associate in Science for Transfer**

The Associate in Science in Early Childhood Education for Transfer degree prepares students to work with children from infancy through middle childhood, to teach in child care and development programs, to participate in the broader society as child advocates, and to transfer into the California State University.

The Early Childhood Education Program educates and trains students in developmentally appropriate practice guided by principles established by the National Association for the Education of Young Children. Through a broad range of theoretical perspectives, students examine child growth and development, gain experience in observation and use of appropriate guidance techniques, learn to plan and implement

curriculum, and demonstrate knowledge of state licensing regulations for child care and development programs. Program curriculum is aligned with the Child Development Permit Program Matrix and with the Curriculum Alignment Project.

Program Learning Outcomes

1. Students will demonstrate understanding of early childhood principles and practices required for employment including maintaining health and safety standards, creating appropriate early learning environments, complying with state licensing regulations and guiding children's behavior with respectful and supportive method.
2. Students will utilize various observational techniques to assess children's learning and development and use the results to plan developmentally, culturally and linguistically appropriate curriculum.
3. Students will describe and distinguish major theories of child development to support in planning appropriate early experiences for children.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern - 40 units
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern - 37 units

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree. Students must double-count CDEV 021 and CDEV 026 to remain within the prescribed 60-unit limit.

Core Requirements

Complete 24 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family, and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety, and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum Field Experience	3

Minimum Major Units Required: 24

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Elementary Teacher Education, Associate in Arts for Transfer

The Associate in Arts in Elementary Teacher Education for Transfer degree is designed to provide students a seamless pathway for transfer to a California State University with a major in Liberal Studies. The student will meet introductory content area subject matter requirements for teaching at the elementary school level. Through a broad liberal studies curriculum, students are introduced to elementary school teaching, examine child growth and development, and select courses in the arts and humanities, social and behavioral sciences, natural sciences, literature and communication.

Program Learning Outcomes

1. Students will demonstrate best practices in the development and implementation of lesson plans and assessments, which are built on state standards.
2. Students will develop a professional teaching portfolio to include papers on classroom management, classroom environment, and classroom procedures based on observations and one-on-one tutoring completed in local elementary classrooms.
3. Students will demonstrate the ability to integrate and utilize knowledge from multiple disciplines.
4. Students will understand and respond to the diversity of the children they will serve.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 46 units

BIOL 010	Survey of Biology	4
CDEV 021	Child and Adolescent Development	3
CHEM 003A	Introduction to Chemistry	4
COM ST 001A	Public Speaking	3
EDUC 010	Introduction to Education	3
ENG 001A	Reading and Composition	3
ENG 001B	Written Communications II: A Critical Introduction to Literature	3
GEOG 010	World Regional Geography	3
GEOL 005	Earth Science	3
GEOL 005L	Earth Science Laboratory	1
HIST 002A	World History to 1600	3
HIST 017A	History of the United States	3
MATH 017A	Concepts and Structures of Mathematics	3
PHYS 010	Introduction to Physics	4
POLSC 001	American Government and Institutions	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

COM ST 005	Argumentation and Debate	3
ENG 001D	Advanced Composition and Critical Thinking	3
PHILO 030	Introductory logic	3

Area B - Complete 3 units selected from:

ART 004	Exploring Art	3
DRAMA 010	Introduction to Theatre	3
MUSIC 004	Exploring Music	3

Minimum Major Units Required: 52

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**History, Associate in Arts**

The Major in History is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study of History. The skills developed in history courses include historical research and writing, the critical analysis of primary and secondary sources, the ability to differentiate between different historical interpretations of the same event, and the ability to communicate historical matter orally. The Associate in Arts in History degree requires completion of the AA-GE pattern (24 units), CSU-GE pattern (40 units), or the IGETC-CSU pattern (37 units). Students are encouraged to see a counselor for assistance in developing an educational plan that will identify the lower division major preparation and general education coursework that corresponds to the intended major and specific transfer institution. Students should consult www.assist.org for current course articulation in their major.

Program Learning Outcomes

1. Students will be able to demonstrate critical thinking and writing skills.
2. Students will be able to demonstrate an understanding of the impact of race, class, sex, and

ethnicity on individuals' experience of historical events.

3. Students will be able to demonstrate an understanding of the chronology of important historical events within the region and/or time period under study.
4. Students will develop a strong base of research skills, including the ability to evaluate and properly use primary and secondary sources.
5. Students will be able to demonstrate the ability to analyze a primary source.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 6 units

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3

Major Requirements - Restricted Electives

Area A - Complete 6 units selected from one of the sequences:

HIST 002A	World History to 1600	3
and		
HIST 002B	World History Since 1600	3
or		
HIST 004A	History of Western Civilization	3
and		
HIST 004B	History of Western Civilization	3

Area B - History of Women and Minorities in the United States - Complete 3 units from:

HIST 027	Women in History	3
HIST 030A	African-American History to 1877	3
HIST 030B	African-American History Since 1877	3
HIST 031	Mexican-American History	3
HIST 034	Asian Pacific American History	3

Area C - Complete an additional 6 units selected from Area A, Area B, or:

HIST 006A	History of Asian Civilization	3
HIST 006B	History of South and Southeast Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 007	History Through Film	3
HIST 037	California History	3

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

History, Associate in Arts for Transfer

The Associate in Arts in History for Transfer (AA-T) is designed specifically for students desiring to transfer to the CSU with a major in History. The student will develop a strong base of knowledge and skills that will serve as a foundation for further study of History. The skills developed in history courses include historical research and writing, the critical analysis of primary and secondary sources, the ability to differentiate between different historical interpretations of the same event, and the ability to communicate historical matter orally. Students are encouraged to see a counselor for assistance in developing an educational plan.

Students desiring to transfer outside of the CSU system should see a counselor to develop an educational plan that will identify the lower division major preparation and general education coursework that corresponds to the intended major and specific transfer institution. Students should consult www.assist.org for current course articulation in their major.

Program Learning Outcomes

1. The student will be able to demonstrate critical thinking and writing skills.
2. The student will be able to demonstrate an understanding of the impact of race, class and sex on individuals' experience of historical events.
3. The student will be able to demonstrate an understanding of the chronology of important historical events within the region and/or time period under study.
4. The student will develop a strong base of research skills, including the ability to evaluate and properly use primary and secondary sources.
5. The student will be able to demonstrate the ability to analyze a primary source.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 6 units

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3

Major Requirements - Restricted Electives

Area A - Complete 6 units

HIST 002A	World History to 1600	3
or		
HIST 004A	History of Western Civilization	3
and		
HIST 002B	World History Since 1600	3
or		
HIST 004B	History of Western Civilization	3

Area B - Complete 3 units selected from:

HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
HIST 006A	History of Asian Civilization	3
HIST 006B	History of South and Southeast Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 027	Women in History	3
HIST 030A	African-American History to 1877	3
HIST 030B	African-American History Since 1877	3
HIST 031	Mexican-American History	3
HIST 034	Asian Pacific American History	3

Area C - Complete 3 units selected from:

ANTHR 001	Cultural Anthropology	3
GEOG 002	Cultural Geography	3
GEOG 010	World Regional Geography	3
HIST 004A	History of Western Civilization	3
HIST 004B	History of Western Civilization	3
HIST 007	History Through Film	3
HIST 037	California History	3
POLSC 001	American Government and Institutions	3
POLSC 003	Introduction to Political Theory	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts

The Arts, Humanities, and Social Sciences option is designed for the student who desires a broad exposure to the development of human culture and social organization through exploration of the Arts, Humanities, and Social Sciences and how each area influences and supports the other at the Associate Degree Level.

Courses in the Arts, Humanities, and Social Sciences option are those which focus on the cultural activities and artistic expressions, as well as the organizational principles and patterns of human beings. Such courses include introductory or integrative courses in arts, anthropology, foreign languages, history, economics, literature, music, philosophy, politics, psychology, religion, and theatre. These courses are designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them.

Program Learning Outcomes

1. Demonstrate the ability to integrate and utilize knowledge from multiple disciplines.
2. Analyze the similarities and differences between the ways knowledge is collected and applied in the disciplines studied.
3. Compare and contrast controversial viewpoints regarding issues from the perspective of two or more disciplines.

General Education

Complete the following General Education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

*Completion of the San Joaquin Delta College Associate Degree General Education pattern may be appropriate for the student who is:

1. planning to transfer to an out of state or independent 4-year college or university that accepts completion of the Associate Degree for transfer.
2. following NCAA guidelines.

General Education requirements vary widely from institution to institution. It is highly recommended that students see a counselor or consult the selected baccalaureate transfer campus catalog for appropriate GE course selection.

Courses Within the Area of Emphasis

Area A - Arts and Humanities - Complete 6 units selected from:

ANTHR 004/HUM 004	Introduction to Linguistics	3
ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3
ART 001C	Modern and Contemporary Art History	3
ART 002	Art History of the Non-Western World	3
ART 003	Art Appreciation	3
ART 004	Exploring Art	3
ART 006	Color and Design	3
ART 007A	Painting I	3
ART 012	3-D Design	3
ART 020A	Sculpture I	3

ART 033A	Beginning Drawing	3
ART 033B	Intermediate Drawing	3
ART 033C	Figure Drawing	3
ART 040A	Printmaking I	3
ART 064A	Ceramics I	3
CHIN 001	Elementary Chinese I	5
CHIN 002	Elementary Chinese II	5
CHIN 003	Intermediate Chinese I	5
CHIN 004	Intermediate Chinese II	5
CIVIL 003/HUM 003	Autobiography of Civilization	3
COM ST 001B	Advanced Public Speaking	3
COM ST 004	Introduction to Human Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 006/BUS 006	Business and Professional Communication	3
COM ST 007	Intercultural Communication	3
COM ST 008	Small Group Communication	3
COM ST 011	Dialogues in U.S. American Culture	3
COM ST 012	Introduction to Persuasion	3
COM ST 013	Readers Theatre	3
COM ST 052	Speech Activities and Advocacy	1-3
DANCE 035A	African-Caribbean Dance I	3
DANCE 035B	African-Caribbean Dance II	2
DANCE 035C	Intermediate African-Caribbean Dance III	2
DANCE 037A	West African Dance I	2
DANCE 037B	West African Dance II	2
DANCE 037C	Intermediate West African Dance III	2
DRAMA 006A	Improvisational Theatre I	3
DRAMA 006B	Improvisational Theatre II	3
DRAMA 010	Introduction to Theatre	3
DRAMA 015	Make-Up for the Theatre	3
DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3
DRAMA 019A	Technical Theatre I	4
DRAMA 019B	Technical Theatre II	4
DRAMA 025A	Theatre Production: Acting	3
DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 027A	Repertory Workshop: Acting I	2
DRAMA 027B	Repertory Workshop: Acting II	2
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 031	Introduction to Acting	3
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 044B	Traditional Theatre Production: Crew	1-3
DRAMA 047A	Musical Theatre Production: Acting	3
DRAMA 047B	Musical Theatre Production: Crew	1-3
ENG 001B	Written Communication II: A Critical Introduction to Literature	3
ENG 001D	Advanced Composition and Critical Thinking	3
ENG 030	The Film as Literature	3
ENG 035	Chicano Literature	3

HUMANITIES, SOCIAL SCIENCE, EDUCATION, KINESIOLOGY, AND ATHLETICS DIVISION

ENG 037	Women in Literature	3	MCOM 012A	Newspaper Production I	3
ENG 038	Mythology	3	MCOM 012B	Newspaper Production II	3
ENG 042A	Survey of American Literature I	3	MUSIC 001	Music Fundamentals	3
ENG 042B	Survey of American Literature II	3	MUSIC 002A	Music History from Antiquity to 1750	3
ENG 043C	World Literature I	3	MUSIC 002B	Music History form 1750 to Present	3
ENG 043D	World Literature II	3	MUSIC 003A	Music Theory and Musicianship I	4
ENG 044D	Creative Writing: Play and Screen Writing	3	MUSIC 003B	Music Theory and Musicianship II	4
ENG 045	The Reading of Shakespeare	3	MUSIC 003C	Music Theory and Musicianship III	4
ENG 046A	Survey of British Literature I	3	MUSIC 003D	Music Theory and Musicianship IV	4
ENG 046B	Survey of British Literature II	3	MUSIC 004	Exploring Music	3
ENG 047	The Bible as Literature	3	MUSIC 007	Excursions in Music of Our World	3
ENG 049A	Introduction to Creative Writing	3	MUSIC 008	Exploring Jazz, Ragtime, and Blues	3
ENG 049B	Creative Writing: Fiction	3	MUSIC 017	Concert Choir	1
ENG 049C	Creative Writing: Poetry	3	MUSIC 026	Symphonic Band	1-2
ENG 052	From Story to Screen	3	MUSIC 027	Orchestra	1-2
ENG 055A	Studies in Drama	3	MUSIC 029	Jazz Band	1-2
ENG 055B	Studies in Fiction	3	MUSIC 038A	Class Piano for Music Majors I	1
ENG 055C	Studies in Poetry	3	MUSIC 040A	Applied Music	0.5-2
ENG 057	Children's Literature	3	MUSIC 040B	Applied Music	0.5-2
FASHION 006/ID 006	Textiles	3	MUSIC 040C	Applied Music	0.5-2
FASHION 008	History of Fashion to the Twentieth Century	3	MUSIC 040D	Applied Music	0.5-2
FREN 001	Elementary French I	5	PEACTIV 001A	Introductory Swimming	1.5
FREN 002	Elementary French II	5	PEACTIV 001D	Swim Training and Conditioning	0.5-1
FREN 003	Intermediate French I	5	PEACTIV 010A	Beginning Fitness Walking	1
FREN 004	Intermediate French II	5	PEACTIV 022	Tennis	0.5-1
FREN 005	Advanced French	5	PEACTIV 024A	Volleyball I	1
GERM 001	Elementary German I	5	PEACTIV 025A	Basketball I	1
GERM 002	Elementary German II	5	PEACTIV 031A	Beginning Bowling	0.5-1
GERM 003	Intermediate German I	5	PETHEORY 040	Introduction to Kinesiology	3
GERM 004	Intermediate German II	5	PHILO 006	Introduction to Philosophy	3
GRART 001A	Digital Imaging	2	PHILO 030	Introductory Logic	3
GRART 002A	Layout Design	3	PHILO 040	Ethics	3
GRART 003A	Computer Art	2	PHILO 045	Philosophy of Religion	3
HORT 004	History of Garden Design	3	PHILO 050	Asian Philosophy	3
HUM 003/CIVIL 003	Autobiography of Civilization	3	PHOTO 001A	Introduction to Photography	3
HUM 004/ANTHR 004	Introduction to Linguistics	3	RELGN 014A	Great Religions of the Eastern World	3
ID 002	Introduction to Interior Design	3	RELGN 014B	Great religions of the Western World	3
ID 006/FASHION 006	Textiles	3	SL 001	Elementary American Sign Language I	4
ID 008	History of Design and Furniture	3	SL 002	Elementary American Sign Language II	4
ITAL 001	Elementary Italian I	5	SL 003	Intermediate American Sign Language I	4
ITAL 002	Elementary Italian II	5	SL 004	Intermediate American Sign Language II	4
ITAL 003	Intermediate Italian I	5	SPAN 001	Elementary Spanish I	5
ITAL 004	Intermediate Italian II	5	SPAN 002	Elementary Spanish II	5
JAPAN 001	Elementary Japanese I	5	SPAN 003	Intermediate Spanish I	5
JAPAN 002	Elementary Japanese II	5	SPAN 003A	Spanish for Spanish Speakers I	5
JAPAN 003	Intermediate Japanese I	5	SPAN 004	Intermediate Spanish II	5
JAPAN 004	Intermediate Japanese II	5	SPAN 004A	Spanish for Spanish Speakers II	5
MCOM 001	Introduction to Mass Communication	3	SPAN 005	Advanced Spanish Introduction to Literature I	5
MCOM 002	Writing for the Media	3			
MCOM 004	Mass Media and Critical Thinking	3			
MCOM 005	Social Media and Society	3			
MCOM 007	Photojournalism	3			
MCOM 010	Introduction to Multimedia	3			
MCOM 011	Newswriting	3			

SPAN 006	Advanced Spanish Introduction to Literature II	5
Area B - Social Sciences - Complete 6 units selected from:		
A J 021	Criminal Justice in Society	3
ANTHR 001	Cultural Anthropology	3
ANTHR 006	Introduction to North American Indians	3
ANTHR 010	Introduction to Archaeology	3
BUS 006/COM ST 006	Business and Professional Communication	3
BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3
BUS 020	Introduction to Business	3
BUS 026	Economics of Business	3
CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3
CS 011	Fundamentals of Computer Science	3
ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3
EDUC 010	Introduction to Education	3
EDUC 012	Reading Tutoring Techniques	3
GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3
GEOG 003	Geography of California	3
GEOG 010	World Regional Geography	3
GRART 006A	Publication Design	4
H ED 031	Emergency Responder	3
HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
HIST 004A	History of Western Civilization	3
HIST 004B	History of Western Civilization	3
HIST 006A	History of Asian Civilization	3
HIST 006B	History of South and Southeast Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 007	History Through Film	3
HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
HIST 027	Women in History	3
HIST 030A	African-American History to 1877	3
HIST 030B	African-American History Since 1877	3
HIST 031	Mexican-American History	3
HIST 034	Asian Pacific American History	3
HIST 037	California History	3
POLSC 001	American Government and Institutions	3

POLSC 002	Introduction to Comparative Politics	3
POLSC 003	Introduction to Political Theory	3
POLSC 004	California Politics	3
POLSC 005	International Relations	3
POLSC 006	International Political Economy	3
PSYCH 001	Introduction to Psychology	3
PSYCH 002	Statistical Methods for Psychology and Social Science	3
PSYCH 003	Personal and Social Psychology	3
PSYCH 004	Introduction to Research Methods in Psychology	3
PSYCH 006	Lifespan Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 030/BIOL 030	Human Sexuality	3
SOCIO 001A	Introduction to Sociology	3
SOCIO 001B	Problems of a Changing Society	3
SOCIO 027	Gender in Contemporary Society	3
SOCIO 033	Social Inequality in the United States	3

Area C - Complete 6 additional units selected from any of the courses listed above.

Minimum Area of Emphasis Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Kinesiology, Associate in Arts for Transfer

The Associate in Arts in Kinesiology for Transfer Degree is designed as a seamless pathway for transfer for students planning to attend a California State University (CSU) with a major in kinesiology. Kinesiology is the study of the art and science of human movement, considering knowledge, theory, and practice in a physical activity and sport context. Human movement is examined from various perspectives, ranging from cell structure to the place of exercise, physical activity, and sport in society. This degree emphasizes lower division preparation for opportunities in teaching or in Physical Education and other fields such as physical therapy, special education, recreation, athletic training, research and positions in private industry or in public service.

Program Learning Outcomes

1. Program completers will identify the psychological aspects and dynamics of individual and team sports.
2. Program completers will understand human anatomy and physiology pertaining to major body systems.
3. Program completers will have the knowledge to understand and assess the health, fitness, and basic nutritional aspects of physical education.
4. Program completers will have the skills and knowledge needed to transfer to university level programs with a comprehensive foundation in physical education.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 12 units

BIOL 031	Human Anatomy	4
BIOL 032	Human Physiology	5
PETHEORY 040	Introduction to Physical Education and Exercise Science	3

Major Requirements - Restricted Electives

Area A - Movement-Based Courses - Complete 3 units from at least 3 different Groups.

Group 1 - Aquatics		
PEACTIV 001A	Introductory Swimming	1.5
PEACTIV 001D	Swim Training and Conditioning	0.5-1

Group 2 - Fitness		
PEACTIV 010A	Beginning Fitness Walking	1
Group 3 - Individual Sports		
PEACTIV 022	Tennis	1
PEACTIV 024A	Volleyball I	1
PEACTIV 025A	Basketball I	1
PEACTIV 031A	Beginning Bowling	1

Area B - Complete 6 units selected from:

BIOL 011	Humans in a Biological World	4
H ED 031	Emergency Responder	3
MATH 012	Introduction to Probability and Statistics	4
PHYSC 002A	General Physics	4
or		
PHYSC 04A	Principles of Physics: Mechanics	4

Minimum Major Units Required: 21

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Law Enforcement, Associate in Science

Upon successful completion of the Associate Degree in Law Enforcement, the student demonstrates the fulfillment of the lower-division requirements for any accredited baccalaureate institution; preparation for participation in the Basic Peace Officer Academy; and a job in law enforcement. NOTE: A minimum of 60 units is required for the Associate degree. Refer to Catalog section, Academic Programs, Special Admission Programs, for Special Admission Requirements.

Program Learning Outcomes

1. The student will be able to apply these skills as preparation for participation in the Basic Peace

Officer Academy and be able to demonstrate entry level job skills for law enforcement.

2. The student demonstrates the fulfillment of the lower-division requirements for any accredited baccalaureate institution. A minimum of 60 units is required for the Associate degree.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 27 Units

A J 021	Criminal Justice in Society	3
A J 022	Concepts of Criminal Law	3
A J 023	Principles and Procedures of The Justice System	3
A J 024	Legal Aspects of Evidence	3
A J 025	Criminal Investigation	3
A J 031	Report Preparation	3
A J 040	Community Relations	3
CS 011	Fundamentals of Computer Science	3
SOCIO 001A	Introduction to Sociology	3

Major Requirements - Restricted Electives

Area A - Complete 3 units selected from:

A J 028	Juvenile Law and Procedures	3
A J 054	Introduction to Probation and Parole	3

Area B - Complete 3 units selected from:

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
POLSC 001	American Government and Institutions	3

Minimum Major Units Required: 33

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Physical Education, Associate in Science

The Major in Physical Education is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The program prepares students for careers in physical therapy, athletic training, exercise physiology, sports management, motor learning, sports psychology, personal fitness training and sports medicine. Employment opportunities include educational institutions, commercial/corporate health facilities, private and public fitness and sports centers, recreation departments, and working with sports teams.

Program Learning Outcomes

1. Program completers will understand human anatomy and physiology pertaining to major body systems.
2. Program completers will have the knowledge to understand and assess the health, fitness, and basic nutritional aspects of physical aspects of physical education.
3. Program completers will identify the psychological aspects and dynamics of individual and team sports.
4. Program completers will have the skills and knowledge needed to transfer to university level programs with a comprehensive foundation in physical education.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of major and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units

Area A - Complete 6 units selected from:

H ED 001	Health Education	3
H ED 030	Community First Aid and Safety	2
H ED 031	Emergency Responder	3
PETHEORY 042V	Theory and Application of Weight Training	3
PETHEORY 048	Physiology of Fitness and Sport Performance	3
PETHEORY 049	Psychology of Fitness and Sport Performance	3
PETHEORY 051	Fitness Assessment and Exercise Prescription	3
PETHEORY 052	Nutrition for Fitness and Sport Performance	3

Area B - Complete 4 units selected from:

ATH 001	Off Season Sports Conditioning	0.5-1.5
PEACTIV 001D	Swim Training and Conditioning	0.5-1
PEACTIV 012A	Individual Conditioning I	1.5
PEACTIV 014A	Weight Training I	1.5
Area C - Complete 8 units selected from:		
ATH 042	Off Season Wrestling	0.5-1.5
ATH 044	Off Season Soccer	0.5-1.5
ATH 045	Off Season Baseball	0.5-1.5
ATH 046	Off Season Football	0.5-1.5
ATH 050	Soccer Team: Men	3
ATH 051	Water Polo Team: Men	3
ATH 052	Football Team: Men	3
ATH 053	Cross Country Team: Men	3
ATH 054	Baseball Team: Men	3
ATH 055	Golf Team: Men	3
ATH 056	Basketball Team: Men	1.5
ATH 057	Track Team: Men	3
ATH 058	Wrestling Team: Men	3
ATH 060	Swimming and Diving Team: Men	3
ATH 061	Soccer Team: Women	3
ATH 062	Volleyball Team: Women	3
ATH 063	Swimming and Diving Team: Women	3
ATH 064	Basketball Team: Women	1.5
ATH 065	Softball Team: Women	3
ATH 068	Track Team: Women	3
ATH 069	Cross Country Team: Women	3
PEACTIV 001A	Introductory Swimming	1.5
PEACTIV 010A	Beginning Fitness Walking	1
PEACTIV 022	Tennis	0.5-1
PEACTIV 024A	Volleyball I	1
PEACTIV 025A	Basketball I	1
PEACTIV 031A	Beginning Bowling	0.5-1
PEACTIV 039E	Adapted Swimming	0.5-1
PEACTIV 039F	Adapted Conditioning	0.5-1
PETHEORY 042J	Theory of Track and Field	2
PETHEORY 042K	Theory of Baseball Offense	2
PETHEORY 042L	Theory of Baseball Defense	2
PETHEORY 042M	Beginning Theory of Offensive Football	2
PETHEORY 042O	Beginning Theory of Defensive Football	2
PETHEORY 042Q	Beginning Coaching of Offensive Football	1.5
PETHEORY 042T	Beginning Coaching of Defensive Football	1.5
PETHEORY 050H	Special Studies: Physical Education	1-2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60**Police Science, Associate in Science**

Upon successful completion of the Police Science degree program, students possess the knowledge and skills to earn both the Associate in Science degree and Basic Police Officer Academy certification accredited by the California Commission on Peace Officer Standards

and Training (POST). Students are qualified for employment as a California Peace Officer, Deputy Sheriff, or Level I Reserve Officer. Graduating students successfully demonstrate ethical conduct, the ability to make judgments concerning the enforcement of the law without prejudice, apply the level of force that can lawfully be used by a peace officer, recognize the importance of initial and ongoing training in coping with dangerous situation, analyze and solve problems, write reports that conform to accepted professional standards of quality, and recognize and understand concepts of terminology that is needed to understand the California criminal justice system.

Program Learning Outcomes

1. The student will fulfill the transfer requirements for an accredited baccalaureate institution.
2. The student will perform the duties of a Level I Reserve Peace Officer, or full time Peace Officer as defined by Peace Officer Training and Standards (POST).
3. The student will demonstrate the knowledge of a citizen's civil rights protected by the United States Constitution.
4. The student will demonstrate the ability to recognize and apply the level and types of force that can lawfully be used by a peace officer.

General Education

Complete the following general education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core Requirements

Complete 36 units

A J 095A	Basic Police Academy Module III	6.5
A J 095B	Basic Police Academy Module II	9
A J 095C	Basic Police Academy Module I	20.5

Minimum Major Units Required: 36

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Political Science, Associate in Arts for Transfer

The Associate Arts in Political Science for Transfer is designed to provide a seamless pathway for students planning to transfer to a California State University (CSU) with a major in political science. Politics has an impact on everybody's lives, and as citizens and voters students should be informed about political issues and choices. Majors in political science learn to think critically, express their opinions in a thoughtful manner, analyze political events, evaluate political ideologies and

make informed decisions on how to participate in political processes. The goal for study as a political science major is to maximize students' capacity to analyze and interpret the dynamics of political events and governmental processes and their significance. Training in political science courses should equip students with analytical skills including: (1) the ability to recognize and understand the use of theory, analytic frames and models and their use to interpret and understand political phenomena. (2) the ability to recognize the importance of and to weigh the worth of evidence marshaled to support or oppose an argument. (3) the ability coherently to systematize and accumulate political information and knowledge and to use this stock of knowledge to better understand the political world. With these skills, and the ability to read and think critically, to write effectively and express themselves clearly, students can undertake a variety of careers. Students with a political science major enter careers in business, law, teaching, government, and in policy-related fields. The political science major complements a student's liberal arts education with an emphasis on understanding the theoretical and practical aspects of government and politics. The major is structured to provide students with a background in the basic fields of political science, as well as to permit them a range of choice in completing the program.

Program Learning Outcomes

1. Analyze world politics and diplomacy in the international system.
2. Demonstrate knowledge of contemporary comparative systems and governments.
3. Identify the institutions, players and processes in American national and state governments.
4. Assess how the design of political institutions and processes affect policy and stability.
5. Recognize, describe and analyze the significant and usually direct influence of social, economic and cultural factors on political behavior, beliefs, and institutions.
6. Examine and apply theories, concepts, and practices in political theory.
7. Identify and employ the pertinent vocabulary of political discourse and political science.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but

the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core Requirements

Complete 3 units

POLSC 001	American Government and Institutions	3
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Major Requirements - Restricted Electives

Area A - Complete 9 units selected from:

POLSC 002	Introduction to Comparative Politics	3
POLSC 003	Introduction to Political Theory	3
POLSC 005	International Relations	3
MATH 012	Introduction to Probability and Statistics	4

Area B - Complete 6 units selected from:

ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3
HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
POLSC 004	California Politics	3
POLSC 006	International Political Economy	3
PSYCH 001	Introduction to Psychology	3
SOCIO 001A	Introduction to Sociology	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Psychology, Associate in Arts

The Major in Psychology is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career.

Program Learning Outcomes

1. Students who complete the program will have the ability to recognize and apply the 5 major theories of psychology.
2. Students who complete the program will apply basic counseling skills.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 3 units (recommended prior to enrolling in other Psychology courses)

PSYCH 001	Introduction to Psychology	3
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Major Requirements - Restricted Electives

Complete 15 units selected from:

PSYCH 003	Personal and Social Psychology	3
PSYCH 004	Introduction to Research Methods in Psychology	3
PSYCH 006	Lifespan Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 008	Drug and Alcohol: Community Overview, Awareness and Prevention Strategies	3
PSYCH 010	Communicable Disease Awareness in Counseling	2
PSYCH 011	Assessment for Treatment Planning	3
PSYCH 013	Professional Ethics in Counseling	3
PSYCH 024	Psychology of Aging	3
PSYCH 030/BIOL 030	Human Sexuality	3
PSYCH 040	Case management and Treatment Planning	3
PSYCH 045A/SOCIO 045A	Beginning Field Practicum	2
PSYCH 045B/SOCIO 045B	Intermediate Field Practicum	2
PSYCH 052	Introduction to Substance Abuse Counseling	3
PSYCH 053	Drugs and Society	3
PSYCH 055	Introduction to Child Abuse Counseling	2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Psychology, Associate in Arts for Transfer

This program is designed to satisfy the lower division requirements for students planning to transfer to a California State University (CSU) with a major in psychology. The study of psychology involves acquiring knowledge about human and animal behavior as a basis for further study in advanced courses, as a basis for working with clients in a supervised therapy setting, and as a basis for being an informed citizen in our society. It is not just acquisition of knowledge but also an understanding of the variety of causes for human cognition, emotions, and behavior. An understanding of the causation of behavior leads to greater sensitivity and compassion toward the motives of other people and a more specific and accurate interpretation of their behavior. It also results in greater insight into and acceptance of the reasons for one's own behavior and as a possible vehicle for change. Course substitutions are not permitted for this degree.

Program Learning Outcomes

This program is designed to satisfy the lower division requirements for students planning to transfer to a California State University (CSU) with a major in

psychology. The study of psychology involves acquiring knowledge about human and animal behavior as a basis for further study in advanced courses, as a basis for working with clients in a supervised therapy setting, and as a basis for being an informed citizen in our society. It is not just acquisition of knowledge but also an understanding of the variety of causes for human cognition, emotions, and behavior. An understanding of the causation of behavior leads to greater sensitivity and compassion toward the motives of other people and a more specific and accurate interpretation of their behavior. It also results in greater insight into and acceptance of the reasons for one's own behavior and as a possible vehicle for change.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSUGE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 16 units

BIOL 011	Humans in the Biological World	4
PSYCH 001	Introduction to Psychology	3
PSYCH 002	Statistical Methods for Psychology and Social Science	3
PSYCH 004	Introduction to Research Methods in Psychology	3
PSYCH 006	Lifespan Psychology	3

Major Requirements - Restricted Electives

Complete 3 units selected from:

PSYCH 003	Personal and Social Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 030/ BIOL 030	Human Sexuality	3

Minimum Major Units Required: 19

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Humanities, Social Science, Education, Kinesiology, and Athletics Division Certificate Programs

Basic Peace Officer Academy, Certificate of Achievement

Upon successful completion of the Basic Peace Officer Academy Modular Format, the students will receive a certificate of completion that qualifies them for employment as a California Peace Officer, Deputy Sheriff, Level I Reserve Officer. The student will have successfully demonstrated his or her ability to demonstrate ethical conduct; make judgments concerning the enforcement of the law without prejudice; apply the level of force that can lawfully be used by a peace officer; recognize the importance of initial and ongoing training in coping with dangerous situations; analyze and solve problems; write reports that conform to accepted professional standards of quality; and recognize and understand the concepts and terminology that is needed to understand the California criminal justice system. The California Commission on Peace Officer Standards and Training accredits this program.

NOTE: Please refer to the current catalog for information about Special Admissions Programs.

Program Learning Outcomes

1. Students will perform the duties of a Level I Reserve Peace Officer, or full time Peace Officer as defined by Peace Officer Training and Standards (POST).
2. Students will demonstrate the knowledge of a citizen's civil rights protected by the United States Constitution.
3. Students will demonstrate the ability to recognize and apply the level and types of force that can lawfully be used by a peace officer.

Core Requirements

Complete 36 units

A J 095A	Basic Police Academy III	6.5
A J 095B	Basic Police Academy II	9
A J 095C	Basic Police Academy I	20.5

Minimum Units Required: 36

Complete all courses with a grade of "C" or better.

Correctional Science, Certificate of Achievement

Upon successful completion of the Correctional Science Certificate, the student demonstrates knowledge and skills for a job in corrections, probation, and or adult or juvenile probation; and the student successfully demonstrates his or her ability to recognize and apply the concepts and terminology that is needed to understand the California criminal justice system. The Chancellor's Office approves the program.

Program Learning Outcomes

1. The student successfully demonstrates his or her ability to recognize and apply the concepts and terminology that is needed to understand the corrections component of the criminal justice system.
2. The student demonstrates knowledge and skills for a job in corrections, probation, and or adult or juvenile probation.

Core Requirements

Complete 18 units

A J 022	Concepts of Criminal Law	3
A J 031	Report Preparation	3
A J 051	Introduction to Correctional Science	3
A J 053	Correctional Interviewing and Interventions	3
A J 055	Control and Supervision in Corrections	3
A J 057	Legal Aspects of Corrections	3

Restricted Electives

Complete 6 units selected from:

A J 028	Juvenile Law and Procedures	3
A J 041	Narcotics Investigation and Control	3
A J 054	Introduction to Probation and Parole	3

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

Early Childhood Education Associate Teacher, Certificate of Achievement

Upon successful completion of the Early Childhood Education Associate Teacher Certificate, the student demonstrates knowledge and skills to be a teacher in a private child care program and an associate teacher in a publicly funded child care program in accordance with the Child Development Permit Matrix regulated by the California Commission on Teacher Credentialing. Skills demonstrated and practiced by a student include developmentally appropriate lesson planning for preschool children, conducting of observations and assessing children's learning, planning nutritional menus, demonstrated use of appropriate guidance techniques, and exhibited understanding of optimal room and yard arrangement with a focus on health and safety.

Program Learning Outcomes

1. Students will demonstrate an understanding of developmentally appropriate guidance techniques for use in preschool classrooms.
2. Students will construct developmentally appropriate lesson plans for young children across at least three domains of development.

Core Requirements

Complete 15 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3

CDEV 026	Child, Family and Community	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3

Minimum Units Required: 15

Complete all courses with a grade of "C" or better.

Early Childhood Education Master Teacher, Certificate of Achievement

Upon successful completion of the Early Childhood Education Master Teacher Certificate, the student demonstrates knowledge, training, and skills to be a master teacher in a privately or publicly funded child care center in accordance with the Child Development Permit Matrix issued by the California Commission on Teacher Credentialing. Skills demonstrated and practiced by the student include the ability to provide instruction to young children utilizing knowledge of a specialized area of early childhood education, supervise adults in the classroom, and coordinate curriculum and staff development.

Program Learning Outcomes

1. Students will evaluate effectiveness of early childhood curriculum, classrooms, teaching strategies and how teachers involve families in their children's development and learning to improve teaching practices for all children by completing written observations in group care settings.
2. Students will individualize mentoring and supervision strategies based on the roles and developmental stages of adult learners by completing a written assignment.
3. Students will plan, implement and evaluate a series of developmentally, linguistically and culturally appropriate activities for young children in their practicum settings.
4. Students will use a variety of personnel, program, and environmental assessment tools including either the Early Childhood, Infant/Toddler, School Age or Family Child Care Environmental Rating Scale to inform leadership decisions in a written assignment.

Core Requirements

Complete 28 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3
CDEV 035	Adult Supervision and Mentoring in Early Care and Education	3
CDEV 063	Child Discipline	1

Restricted Electives

Area A - Complete 3 units selected from:

COM ST 001A	Public Speaking	3
ENG 001A	Reading and Composition	3

Area B - Complete 3 units selected from:

Associate Degree General Education Area 1B - Mathematics	3
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or

Associate Degree General Education Area 2 - Natural Sciences	3
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Area C - Complete 3 units selected from:

Associate Degree General Education Area 3 - Humanities	3
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Area D - Complete 3 units selected from:

Associate Degree General Education Area 6 - Awareness of Self and Society	3
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Area E - Complete 6 units selected from any ONE of the following specializations: Special Needs, Infant Development, or Preschool

Special Needs

CDEV 034	Children with Special Needs	3
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and

COMM DIS 001A	Introduction to Communication Disorders	3
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or

COMM DIS 001B	Speech, Language and Hearing Development	3
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or

SL 001	Elementary American Sign Language I	4
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Infant Development

CDEV 033	Infant and Toddler Development	3
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CDEV 039	Care and Education for Infants and Toddlers	3
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Preschool

CDEV 029	Early Childhood Experiences: Arts and Sciences	3
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CDEV 030	Early Childhood Experiences: Language Arts	3
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CDEV 032B	Advanced ECE Practicum	3
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CDEV 071	Children, Imagination, and Books	1
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CDEV 072	Play and Learning	1
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CDEV 073	Preschool Art	1
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CDEV 074	Preschool Science	1
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Minimum Units Required: 46

Complete all courses with a grade of "C" or better.

Early Childhood Education Site Supervisor, Certificate of Achievement

Upon successful completion of the Early Childhood Education Site Supervisor Certificate, the student demonstrates knowledge, training and skills to supervise single site child development programs, provide instruction to children, and serve as the coordinator of curriculum and staff development in both public and private child care centers in accordance with the Child Development Permit Matrix issued by the California Commission on Teacher Credentialing. Skills demonstrated and practiced by the student include development of program policies, personnel handbooks and budgets, techniques in adult supervision, and

demonstrated understanding of licensing regulations overseeing both public and private child care programs.

Program Learning Outcomes

1. Students will demonstrate knowledge of strategic and fiscal planning through budget construction by developing a budget and budget notes for a hypothetical early childhood program.
2. Students will implement ongoing professional development plans based on evaluation of staff and administrator needs by completing a written assignment.
3. Students will evaluate components of quality programs, facilities and operations including applying Title 22 and Title 5 Code of Regulations by completing examination questions.
4. Students will individualize mentoring and supervision strategies based on the roles and developmental stages of adult learners by completing a written assignment.
5. Students will describe major developmental milestones for children from conception through adolescence in the areas of physical, psychosocial, cognitive, and language development through a written assignment.

Core Requirements

Complete 36 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3
CDEV 032B	Advanced ECE Practicum	3
CDEV 035	Adult Supervision and Mentoring in Early Care and Education	3
CDEV 037	Administration I: Programs in Early Childhood Education	3
CDEV 038	Administration II: Personnel and Leadership in Early Childhood Education	3

Restricted Electives

Area A - Complete 3 units selected from:

COM ST 001A	Public Speaking	3
ENG 001A	Reading and Composition	3

Area B - Complete 3 units selected from:

Associate Degree General Education Area 1B - Mathematics or Area 2 - Natural Sciences	3
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Area C - Complete 3 units selected from:

Associate Degree General Education Area 3 - Humanities	3
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Area D - Complete 3 units selected from:

Associate Degree General Education Area 6 - Awareness of Self and Society	3
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Minimum Units Required: 60

Complete all courses with a grade of "C" or better.

Early Childhood Education Teacher, Certificate of Achievement

Upon successful completion of the Early Childhood Education Teacher Certificate, the student demonstrates the knowledge, training, and skills of a teacher in a private child care center or a publicly funded child care center in accordance with the Child Development Permit Matrix issued by the California Commission on Teacher Credentialing. Skills demonstrated and practiced by a student include developmentally appropriate lesson planning and implementation for preschool children in subject areas including science, mathematics, creative and language arts; utilization of positive guidance techniques and child assessments; planning safe and developmentally appropriate environments for children; and applying child development theory to all facets of practice with young children.

Program Learning Outcomes

1. Students will describe and design a developmentally appropriate room and yard environments.
2. Students will plan and implement developmentally and culturally appropriate curriculum for young children.

3. Students will apply positive guidance techniques in guiding children's behavior.

4. Students will apply child development theory and principles in working with young children.

Core Requirements

Complete 21 units

CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3

Restricted Electives

Area A - Complete 7 units selected from:

CDEV 015	Selected Topics: Child Development	1-2
CDEV 029	Early Childhood Experiences: Arts and Sciences	3
CDEV 030	Early Childhood Experiences: Language Arts	3
CDEV 034	Children With Special Needs	3
CDEV 063	Child Discipline	1
CDEV 071	Children, Imagination, and Books	1
CDEV 072	Play and Learning	1
CDEV 073	Preschool Art	1
CDEV 074	Preschool Science	1

Area B - Complete 16 units selected from the Associate Degree General Education pattern Areas including one course from each group:

Group 1: Area 1, Language and Rationality

Group 2: Area 2, Natural Sciences or Area 3, Humanities

Minimum Units Required: 44

Complete all courses with a grade of "C" or better.

Fitness Specialist, Certificate of Achievement

Upon successful completion of the Fitness Specialist Certificate, the student demonstrates skills, knowledge, and training for entry level or higher positions in the fitness industry. The student will be prepared to take the National Strength and Conditioning Association's Certified Personal Trainer Certification exam. The student demonstrates skills, knowledge, and training for employment as a strength and conditioning coach, exercise specialist for a clinical setting, wellness instructor, and personal fitness trainers; to conduct fitness evaluations for individually designed programs that include nutrition, exercise routines, and motivation approaches; and to transfer to a bachelor's degree program in physical education, exercise science, or kinesiology.

Program Learning Outcomes

1. Assessment: Program completers will learn skills to measure human performance, risk level, and physical fitness.

2. Nutrition: Program completers will understand basic nutritional needs, healthy eating habits, eating disorders, metabolism and weight management, and diet analysis.
3. Safety and Injuries: Program completers will understand how to decrease risk, evaluate, and treat injuries.
4. Leadership: Program completers will demonstrate skills needed to work successfully as Strength and Conditioning Coaches, Personal Trainers, PE Teachers, Athletic Trainers, Wellness/Health Promotion Coaches, and Clinical Exercise Specialists.
5. Exercise Programs: Program completers will be able to create safe and effective complete exercise training programs for various populations.
6. Exercise Psychology: Program completers will learn skills to motivate, increase adherence, set effective goals, and steps of behavior change.
7. Exercise Physiology: Program completers will learn basic physiology and kinesiology and the physical and psychological adaptations of exercise.

Core Requirements**Complete 25 units**

H ED 031	Emergency Responder	3
PETHEORY 042V	Theory and Application of Weight Training	3
PETHEORY 043	Care and Prevention of Athletic Injuries	3
PETHEORY 048	Physiology of Fitness and Sport Performance	3
PETHEORY 049	Psychology of Fitness and Sport Performance	3
PETHEORY 050H	Special Studies: Physical Education	2
PETHEORY 051	Fitness Assessment	3
PETHEORY 052	Nutrition for Fitness and Sport Performance	3
PETHEORY 069V	PE Theory Internship	2

Minimum Units Required: 25

Complete all courses with a grade of "C" or better.

Law Enforcement, Certificate of Achievement

Upon successful completion of the Law Enforcement Certificate, the student demonstrates skills, knowledge and training for a job in law enforcement. The student demonstrates his or her ability to recognize and understand the concepts and terminology that is needed to understand the California criminal justice system.

Program Learning Outcomes

1. The student demonstrates his or her ability to recognize and understand the concepts and terminology that is needed to understand the California criminal justice system.
2. The student demonstrates skills, knowledge and training for a job in law enforcement.

Core Requirements**Complete 37 units**

A J 021	Criminal Justice in Society	3
A J 022	Concepts of Criminal Law	3
A J 023	Principles and Procedures of The Justice System	3
A J 024	Legal Aspects of Evidence	3
A J 025	Criminal Investigation	3
A J 031	Report Preparation	3
A J 040	Community Relations	3
COM ST 001A	Public Speaking	3
CS 011	Fundamentals of Computer Science	3
ENG 001A	Reading and Composition	3
MATH 090	Beginning Algebra	4
SOCIO 001A	Introduction to Sociology	3

Restricted Electives**Area A - Complete 3 units selected from:**

A J 028	Juvenile Law and Procedures	3
A J 054	Introduction to Probation and Parole	3

Area B - Complete a minimum of 3 units from:

HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
POLSC 001	American Government and Institutions	3

Area C - Complete 1 course from each of the following:
Associate Degree General Education Pattern, Area 3, Humanities**Associate Degree General Education Pattern, Area 2, Natural Sciences****Area D - Complete elective course work to achieve the minimum 61 unit requirement.****Minimum Units Required: 61**

Complete all courses with a grade of "C" or better.

Mental Health Specialist, Certificate of Achievement

Upon successful completion of the Mental Health Specialist certificate, the student will be prepared to work at the San Joaquin County Office of Mental Health as a Mental Health Specialist. The student will take academic courses to prepare him/her for this position. The student will receive training on how to: provide case management for a routine client caseload; provide group and individual counseling for emotional, drug, alcohol or other mental health problems; provide in-service training to speakers, educators and counselors; assist in managing a large mental health program or manage a small program.

Program Learning Outcomes

1. Students will be able to apply counseling skills and techniques.
2. Students will have the skills needed to obtain entry level position in counseling or related fields.

Core Requirements**Complete 35 units**

BIOL 011	Humans in the Biological World	4
COMS ST 007	Intercultural Communication	3
CSA 020	Computer Information Systems Applications	3
H S 036	Medical Terminology and Speech	3

PSYCH 001	Introduction to Psychology	3
PSYCH 003	Personal and Social Psychology	3
PSYCH 006	Lifespan Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 040	Case Management and Treatment Planning	3
PSYCH 045A/ SOCIO 045A	Beginning Field Practicum	2
PSYCH 045B/ SOCIO 045B	Intermediate Field Practicum	2
SOCIO 001A	Introduction to Sociology	3

Restricted Electives

Complete 3 units selected from:

ENG 001A	Reading and Composition	3
ENG 079	Preparatory English	5

Minimum Units Required: 38

Complete all courses with a grade of "C" or better.

Substance Abuse Counselor, Certificate of Achievement

Upon successful completion of the Substance Abuse Counselor Certificate, the student demonstrates skills, knowledge, and training to counsel with people in recovery, while under the supervision of licensed professionals. Skills learned include but are not limited to: an understanding of substance abuse counseling techniques; the impact of drugs on society; interviewing skills that maximize the information obtained from clients necessary to determining needs and services; assessment and evaluation; relapse prevention; the ability to prepare case plans; an understanding of the basic aims and processes involved in facilitating groups; an understanding of the basic process of individual counseling and problem solving, and an understanding of the basic principles and methods related to working with family systems. Students completing the course work are eligible to take the California State exam to become a certified substance abuse counselor. Note there are several licensing boards. If you want to be CAADAC certified, you will need to complete an additional 65 internship hours in an approved facility.

Program Learning Outcomes

1. Students will have the knowledge and requirements to take the state certification upon completion of the program.
2. Upon completion of certificate requirements students will be qualified to obtain entry level employment in the industry.

Core Requirements

Complete 39 units

PSYCH 001	Introduction to Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 008	Drug and Alcohol: Community Overview, Awareness, and Prevention Strategies	3
PSYCH 009	Psychology: Issues of Diversity	3
PSYCH 010	Communicable Disease Awareness in Counseling	2

PSYCH 011	Assessment for Treatment Planning	3
PSYCH 013	Professional Ethics in Counseling	3
PSYCH 016	Introduction to Counseling Skills	3
PSYCH 017	Introduction to Counseling Theories (Individual, Group & Family)	3
PSYCH 040	Case Management and Treatment Planning	3
PSYCH 045A/ SOCIO 045A	Beginning Field Practicum	2
PSYCH 045B/ SOCIO 045B	Intermediate Field Practicum	2
PSYCH 052	Introduction to Substance Abuse Counseling	3
PSYCH 053	Drugs and Society	3

Additional Requirements:

- Internship: A minimum of 160* supervised intern hours in a California State licensed substance abuse facility. *California Association of Alcohol and Drug Abuse Counselors (CAADAC) requires 255 hours.
- Internship: A minimum of 255 supervised intern hours in a substance abuse facility. May be accrued from paid work experience, volunteer work or through enrollment in the SJDC Work Experience Program.

Minimum Units Required: 39

Complete all courses with a grade of "C" or better.

LANGUAGES, LIBRARY, AND LEARNING RESOURCES DIVISION

Division Dean: Sheli Ayers, M.A., M.F.A.

Division Office
Goleman 101
(209) 954-5252 or (209) 954-5139
FAX: (209) 954-3745

Goleman Library
(209) 954-5139
FAX: (209) 954-3745

Goleman Library Reference/Information Desk
(209) 954-5145

Goleman Library Circulation/Reserve Book/Audio-Visual
Desk
(209) 954-5143

Athletic Learning Center - "The Zone"
Budd 205
(209) 954-5111

Content Tutoring Center
Goleman Library - First Floor
(209) 954-5296

Pathways Center and ESL Lab
Holt 201
(209) 954-5297 and (209) 954-5352

Math/Science Learning Center
Science and Math Building 162
(209) 954-5542

Writing Success Center
Goleman Library 222
(209) 954-5192

Faculty: William J. Agopsowicz, Ph.D.; Isabel C. Anievas-Gamallo, Ph.D.; Sarah Antinora, Ph.D.; Julie Artesi, M.A.; Mary Victoria Aubrey, M.A.; Lilia Becerra-Quintor, M.A.; Robert V. Bini, M.A.; Nicole Brown, M.A.; Ludmila Buettner Ed.D.; Manuel Camacho, M.S.; John Chan, M.L.I.S., J.D.; John Clanton, M.A.; Jane Dominik Ph.D.; Cassandra Dulin, Ed.D., Ph.D.; June Gillam, Ph.D.; Guillermo Giron, M.A.; Josefina Gomez, J.D.; Shelley Hanna, M.A.; Phillip Hutcheon, Ph.D.; Kelly Kadi, M.A.; Eric MacDonald, M.A.; Michele Marta, M.A.; Kathleen McKilligan, M.A.; Jessica Morrow, M.A.; Gabrielle Myers, M.A.; Charlene Nunes, M.A.; Pamela L. Pan, Ph.D.; Jeff Pressnell, M.A.; Pedro Ramirez, M.A.; Robert Rennicks, M.A.; Peggy Rocha, M.A.; Steven M. Schermerhorn, M.L.S.; Paula Sheil, M.A.; Kitty W. Shek, M.L.S.; Mark D. Slakey, Ph.D.; Farida K. Smyth, M.A.; Patrick Wall, Ph.D.; Jun Wang, Ed.D.; Mary Weppler-Selear, M.A.; Lisa William, Ph.D.; Amber Wolak, M.A.

Subjects

- American Sign Language (SL)
- Chinese (CHIN)
- Developmental Education (DV ED)
- English (ENG)
- English as a Second Language (ESL)
- French (FREN)
- German (GERM)
- Italian (ITAL)
- Japanese (JAPAN)
- Literature (ENG)
- Reading (READING)
- Spanish (SPAN)

Degree Programs

- Chinese Language, Associate in Arts
- English, Associate in Arts
- English, Associate in Arts for Transfer
- French Language, Associate in Arts
- German Language, Associate in Arts
- Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts
- Italian Language, Associate in Arts
- Japanese Language, Associate in Arts
- Spanish Language, Associate in Arts
- Spanish, Associate in Arts for Transfer

Certificate Programs

- American Sign Language

Languages, Library, and Learning Resources Division Degree Programs

Chinese Language, Associate in Arts

The Major in Chinese Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in Chinese. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the Chinese language with appropriate grammatical accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in the Chinese language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

CHIN 001	Elementary Chinese I	5
CHIN 002	Elementary Chinese II	5
CHIN 003	Intermediate Chinese I	5
CHIN 004	Intermediate Chinese II	5
CHIN 050H	Special Studies: Chinese	1-2
HIST 006A	History of Asian Civilization	3
HUM 004/	Introduction to Linguistics	3
ANTHR 004		
HUM 019	Selected Topics: Study and Travel	2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

English, Associate in Arts

The Major in English is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. This program provides a preliminary intensive study in a variety of genres within English language and literature.

Program Learning Outcomes

1. Students will demonstrate knowledge and understanding of major literary movements, themes, genres, and the origin and development of literature in its historical and contemporary contexts. This outcome will be measured by course completion rates, as well as data collected on successful degrees at transfer institutions and follow-up surveys.

2. Students will demonstrate effective critical reading, writing, thinking, and speaking about literature through course completion rates, as well as data collected on successful degrees at transfer institutions and follow-up surveys.
3. Because literature is essentially a study of what it means to be human, students will demonstrate an understanding of ethical behavior through human choices and develop a respect and empathy for the poverty and richness of the human condition. This outcome will be measured by course completion rates, as well as data collected through follow-up surveys.
4. Students will demonstrate an ability to engage, cooperate, and collaborate with other students, their instructors, and with their communities. This outcome will be measured by course completion rates, as well as data collected through surveys of other students in English classes.
5. Students will integrate reading into their future lives, for both recreation and intellectual stimulation. This outcome will be measured through follow-up surveys of degree recipients.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

ENG 001B	Written Communications II: A Critical Introduction to Literature	3
ENG 001D	Advanced Composition and Critical Thinking	3
ENG 030	The Film as Literature	3
ENG 035	Chicano Literature	3
ENG 037	Women in Literature	3
ENG 038	Mythology	3
ENG 042A	Survey of American Literature	3
ENG 042B	Survey of American Literature	3
ENG 044D	Creative Writing: Play and Screen Writing	3
ENG 045	The Reading of Shakespeare	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3
ENG 049B	Creative Writing: Fiction	3
ENG 049C	Creative Writing: Poetry	3

ENG 052	From Story to Screen	3
ENG 055A	Studies in Drama	3
ENG 057	Children's Literature	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

English, Associate in Arts for Transfer

This program is designed for students planning to transfer to a California State University (CSU) with a major in English. Critical reading, writing, and thinking are fundamental skills that will enable students to navigate an increasingly complex and rapidly changing world. These skills are necessary in both the private and public sectors and serve as a foundation for both human interaction and success in a variety of career fields including, but not limited to, writing, teaching, law, business, journalism, broadcasting, television, advertising, medicine, social work, and government.

The Associate of Arts in English for Transfer is designed to develop a strong base of knowledge and skills that will serve as a foundation for further study. A basic core of courses that train the student in the skills of effective critical reading, writing, thinking, and speaking about literature is combined with survey courses that provide the student with the knowledge of major literary movements, themes, genres, and the development of literature in its historical and contemporary contexts. The program provides a preliminary intensive study covering the fundamentals necessary to assist students to succeed after transfer.

Program Learning Outcomes

1. Students will demonstrate knowledge and understanding of major literary movements, themes, genres, and the origin and development of literature in its historical and contemporary contexts.
2. Students will demonstrate effective critical reading, writing, thinking, and speaking about literature.
3. Because literature is essentially a study of what it means to be human, students will demonstrate an understanding of ethical behavior through human choices and develop a respect and empathy for the poverty and richness of the human condition.
4. Students will demonstrate an ability to engage, cooperate, and collaborate with other students, their instructors, and with their communities.
5. Students will integrate reading into their future lives, for both recreation and intellectual stimulation.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)

- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 6 units

ENG 001B	Written Communications II: A Critical Introduction to Literature	3
ENG 001D	Advanced Composition and Critical Thinking	3

Major Requirements - Restricted Electives

Area A - Complete 6 units selected from:

ENG 042A	Survey of American Literature	3
ENG 042B	Survey of American Literature	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3

Area B - Complete 3 units selected from:

ENG 042A	Survey of American Literature	3
ENG 042B	Survey of American Literature	3
ENG 044E	Introduction to Creative Writing	3
ENG 045	The Reading of Shakespeare	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3

Area C - Complete 3 units selected from:

ENG 030	The Film as Literature	3
ENG 035	Chicano Literature	3
ENG 037	Women in Literature	3
ENG 038	Mythology	3
ENG 042A	Survey of American Literature	3
ENG 042B	Survey of American Literature	3
ENG 044D	Creative Writing: Play and Screen Writing	3
ENG 044E	Introduction to Creative Writing	3
ENG 045	The Reading of Shakespeare	3
ENG 046A	Survey of British Literature I	3
ENG 046B	Survey of British Literature II	3
ENG 047	The Bible as Literature	3
ENG 049B	Creative Writing: Fiction	3
ENG 049C	Creative Writing: Poetry	3
ENG 052	From Story to Screen	3
ENG 055A	Studies in Drama	3
ENG 055B	Studies in Fiction	3
ENG 055C	Studies in Poetry	3
ENG 057	Children's Literature	3

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

French Language, Associate in Arts

The Major in French Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in French. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the French language with appropriate grammatical accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in the French language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

FRENCH 002	Elementary French II	5
FRENCH 003	Intermediate French I	5
FRENCH 004	Intermediate French II	5
FRENCH 005	Advanced French	5
FRENCH 036A	Introductory French Conversation	2
FRENCH 036B	Beginning French Conversation	2
FRENCH 050H	Special Studies: French	1-2
HUM 004/ ANTHR 004	Introduction to Linguistics	3
HUM 019	Selected Topics: Study and Travel	2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

German Language, Associate in Arts

The Major in German Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in German. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the German language with appropriate accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in the German language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

GERM 002	Elementary German II	5
GERM 003	Intermediate German I	5
GERM 004	Intermediate German II	5
GERM 050H	Special Studies: German	1-2
HUM 004/ ANTHR 004	Introduction to Linguistics	3
HUM 019	Selected Topics: Study and Travel	2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Interdisciplinary Studies - Arts, Humanities, and Social Sciences Option, Associate in Arts

The Arts, Humanities, and Social Sciences option is designed for the student who desires a broad exposure to the development of human culture and social organization through exploration of the Arts, Humanities, and Social Sciences and how each area influences and supports the other at the Associate Degree Level.

Courses in the Arts, Humanities, and Social Sciences option are those which focus on the cultural activities and artistic expressions, as well as the organizational principles and patterns of human beings. Such courses include introductory or integrative courses in arts, anthropology, foreign languages, history, economics, literature, music, philosophy, politics, psychology, religion, and theatre. These courses are designed to help the student develop an awareness of the ways in which people throughout the ages and in different cultures have responded to themselves and the world around them.

Program Learning Outcomes

1. Demonstrate the ability to integrate and utilize knowledge from multiple disciplines.
2. Analyze the similarities and differences between the ways knowledge is collected and applied in the disciplines studied.
3. Compare and contrast controversial viewpoints regarding issues from the perspective of two or more disciplines.

General Education

Complete the following General Education pattern:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)

*Completion of the San Joaquin Delta College Associate Degree General Education pattern may be appropriate for the student who is:

1. planning to transfer to an out of state or independent 4-year college or university that accepts completion of the Associate Degree for transfer.
2. following NCAA guidelines.

General Education requirements vary widely from institution to institution. It is highly recommended that students see a counselor or consult the selected baccalaureate transfer campus catalog for appropriate GE course selection.

Courses Within the Area of Emphasis

Area A - Arts and Humanities - Complete 6 units selected from:

ANTHR 004/HUM 004	Introduction to Linguistics	3
ART 001A	Art History: Europe from Prehistory to 1400	3
ART 001B	Art History: Europe from the Fifteenth to the Twentieth Century	3

ART 001C	Modern and Contemporary Art History	3
ART 002	Art History of the Non-Western World	3
ART 003	Art Appreciation	3
ART 004	Exploring Art	3
ART 006	Color and Design	3
ART 007A	Painting I	3
ART 012	3-D Design	3
ART 020A	Sculpture I	3
ART 033A	Beginning Drawing	3
ART 033B	Intermediate Drawing	3
ART 033C	Figure Drawing	3
ART 040A	Printmaking I	3
ART 064A	Ceramics I	3
CHIN 001	Elementary Chinese I	5
CHIN 002	Elementary Chinese II	5
CHIN 003	Intermediate Chinese I	5
CHIN 004	Intermediate Chinese II	5
CIVIL 003/HUM 003	Autobiography of Civilization	3
COM ST 001B	Advanced Public Speaking	3
COM ST 004	Introduction to Human Communication	3
COM ST 005	Argumentation and Debate	3
COM ST 006/BUS 006	Business and Professional Communication	3
COM ST 007	Intercultural Communication	3
COM ST 008	Small Group Communication	3
COM ST 011	Dialogues in U.S. American Culture	3
COM ST 012	Introduction to Persuasion	3
COM ST 013	Readers Theatre	3
COM ST 052	Speech Activities and Advocacy	1-3
DANCE 035A	African-Caribbean Dance I	3
DANCE 035B	African-Caribbean Dance II	2
DANCE 035C	Intermediate African-Caribbean Dance III	2
DANCE 037A	West African Dance I	2
DANCE 037B	West African Dance II	2
DANCE 037C	Intermediate West African Dance III	2
DRAMA 006A	Improvisational Theatre I	3
DRAMA 006B	Improvisational Theatre II	3
DRAMA 010	Introduction to Theatre	3
DRAMA 015	Make-Up for the Theatre	3
DRAMA 016A	History of Theatre: Primitive to the 18th Century	3
DRAMA 016B	History of Theatre: 18th Century to Present	3
DRAMA 019A	Technical Theatre I	4
DRAMA 019B	Technical Theatre II	4
DRAMA 025A	Theatre Production: Acting	3
DRAMA 025B	Theatre Production: Crew	1-3
DRAMA 027A	Repertory Workshop: Acting I	2
DRAMA 027B	Repertory Workshop: Acting II	2
DRAMA 029A	Repertory Workshop: Crew I	1-2
DRAMA 029B	Repertory Workshop: Crew II	1-2
DRAMA 031	Introduction to Acting	3
DRAMA 044A	Traditional Theatre Production: Acting	3
DRAMA 044B	Traditional Theatre Production: Crew	1-3

DRAMA 047A	Musical Theatre Production: Acting	3	MCOM 001	Introduction to Mass Communication	3
DRAMA 047B	Musical Theatre Production: Crew	1-3	MCOM 002	Writing for the Media	3
ENG 001B	Written Communication II: A Critical Introduction to Literature	3	MCOM 004	Mass Media and Critical Thinking	3
ENG 001D	Advanced Composition and Critical Thinking	3	MCOM 005	Social Media and Society	3
ENG 030	The Film as Literature	3	MCOM 007	Photojournalism	3
ENG 035	Chicano Literature	3	MCOM 010	Introduction to Multimedia	3
ENG 037	Women in Literature	3	MCOM 011	News Writing	3
ENG 038	Mythology	3	MCOM 012A	Newspaper Production I	3
ENG 042A	Survey of American Literature I	3	MCOM 012B	Newspaper Production II	3
ENG 042B	Survey of American Literature II	3	MUSIC 001	Music Fundamentals	3
ENG 043C	World Literature I	3	MUSIC 002A	Music History from Antiquity to 1750	3
ENG 043D	World Literature II	3	MUSIC 002B	Music History from 1750 to Present	3
ENG 044D	Creative Writing: Play and Screen Writing	3	MUSIC 003A	Music Theory and Musicianship I	4
ENG 045	The Reading of Shakespeare	3	MUSIC 003B	Music Theory and Musicianship II	4
ENG 046A	Survey of British Literature I	3	MUSIC 003C	Music Theory and Musicianship III	4
ENG 046B	Survey of British Literature II	3	MUSIC 003D	Music Theory and Musicianship IV	4
ENG 047	The Bible as Literature	3	MUSIC 004	Exploring Music	3
ENG 049A	Introduction to Creative Writing	3	MUSIC 007	Excursions in Music of Our World	3
ENG 049B	Creative Writing: Fiction	3	MUSIC 008	Exploring Jazz, Ragtime, and Blues	3
ENG 049C	Creative Writing: Poetry	3	MUSIC 017	Concert Choir	1
ENG 052	From Story to Screen	3	MUSIC 026	Symphonic Band	1-2
ENG 055A	Studies in Drama	3	MUSIC 027	Orchestra	1-2
ENG 055B	Studies in Fiction	3	MUSIC 029	Jazz Band	1-2
ENG 055C	Studies in Poetry	3	MUSIC 038A	Class Piano for Music Majors I	1
ENG 057	Children's Literature	3	MUSIC 040A	Applied Music	0.5-2
FASHION 006/ID 006	Textiles	3	MUSIC 040B	Applied Music	0.5-2
FASHION 008	History of Fashion to the Twentieth Century	3	MUSIC 040C	Applied Music	0.5-2
FREN 001	Elementary French I	5	MUSIC 040D	Applied Music	0.5-2
FREN 002	Elementary French II	5	PEACTIV 001A	Introductory Swimming	1.5
FREN 003	Intermediate French I	5	PEACTIV 001D	Swim Training and Conditioning	0.5-1
FREN 004	Intermediate French II	5	PEACTIV 010A	Beginning Fitness Walking	1
FREN 005	Advanced French	5	PEACTIV 022	Tennis	0.5-1
GERM 001	Elementary German I	5	PEACTIV 024A	Volleyball I	1
GERM 002	Elementary German II	5	PEACTIV 025A	Basketball I	1
GERM 003	Intermediate German I	5	PEACTIV 031A	Beginning Bowling	0.5-1
GERM 004	Intermediate German II	5	PETHEORY 040	Introduction to Kinesiology	3
GRART 001A	Digital Imaging	2	PHILO 006	Introduction to Philosophy	3
GRART 002A	Layout Design	3	PHILO 030	Introductory Logic	3
GRART 003A	Computer Art	2	PHILO 040	Ethics	3
HORT 004	History of Garden Design	3	PHILO 045	Philosophy of Religion	3
HUM 003/CIVIL 003	Autobiography of Civilization	3	PHILO 050	Asian Philosophy	3
HUM 004/ANTHR 004	Introduction to Linguistics	3	PHOTO 001A	Introduction to Photography	3
ID 002	Introduction to Interior Design	3	RELGN 014A	Great Religions of the Eastern World	3
ID 006/FASHION 006	Textiles	3	RELGN 014B	Great religions of the Western World	3
ID 008	History of Design and Furniture	3	SL 001	Elementary American Sign Language I	4
ITAL 001	Elementary Italian I	5	SL 002	Elementary American Sign Language II	4
ITAL 002	Elementary Italian II	5	SL 003	Intermediate American Sign Language I	4
ITAL 003	Intermediate Italian I	5	SL 004	Intermediate American Sign Language II	4
ITAL 004	Intermediate Italian II	5	SPAN 001	Elementary Spanish I	5
JAPAN 001	Elementary Japanese I	5			
JAPAN 002	Elementary Japanese II	5			
JAPAN 003	Intermediate Japanese I	5			
JAPAN 004	Intermediate Japanese II	5			

SPAN 002	Elementary Spanish II	5
SPAN 003	Intermediate Spanish I	5
SPAN 003A	Spanish for Spanish Speakers I	5
SPAN 004	Intermediate Spanish II	5
SPAN 004A	Spanish for Spanish Speakers II	5
SPAN 005	Advanced Spanish Introduction to Literature I	5
SPAN 006	Advanced Spanish Introduction to Literature II	5

Area B - Social Sciences - Complete 6 units selected from:

A J 021	Criminal Justice in Society	3
ANTHR 001	Cultural Anthropology	3
ANTHR 006	Introduction to North American Indians	3
ANTHR 010	Introduction to Archaeology	3
BUS 006/COM ST 006	Business and Professional Communication	3
BUS 008	Introduction to The American Legal System	3
BUS 018A	Business Law	3
BUS 018B	Business Law	3
BUS 019	Legal Environment of Business	3
BUS 020	Introduction to Business	3
BUS 026	Economics of Business	3
CDEV 021	Child and Adolescent Development	3
CDEV 025	Observation and Assessment	3
CDEV 026	Child, Family and Community	3
CDEV 027	Culture and Diversity in Early Childhood Education	3
CDEV 028	Child Health, Safety and Nutrition	3
CDEV 031A	Principles and Practices of Teaching Young Children	3
CDEV 031B	Introduction to ECE Curriculum	3
CDEV 032A	Early Childhood Education Practicum-Field Experience	3
CS 011	Fundamentals of Computer Science	3
ECON 001A	Principles of Macroeconomics	3
ECON 001B	Principles of Microeconomics	3
EDUC 010	Introduction to Education	3
EDUC 012	Reading Tutoring Techniques	3
GEOG 001	Physical Geography	3
GEOG 001L	Physical Geography Laboratory	1
GEOG 002	Cultural Geography	3
GEOG 003	Geography of California	3
GEOG 010	World Regional Geography	3
GRART 006A	Publication Design	4
H ED 031	Emergency Responder	3
HIST 002A	World History to 1600	3
HIST 002B	World History Since 1600	3
HIST 004A	History of Western Civilization	3
HIST 004B	History of Western Civilization	3
HIST 006A	History of Asian Civilization	3
HIST 006B	History of South and Southeast Asian Civilization	3
HIST 006C	History of the Middle East	3
HIST 007	History Through Film	3
HIST 017A	History of the United States	3
HIST 017B	History of the United States	3
HIST 027	Women in History	3

HIST 030A	African-American History to 1877	3
HIST 030B	African-American History Since 1877	3
HIST 031	Mexican-American History	3
HIST 034	Asian Pacific American History	3
HIST 037	California History	3
POLSC 001	American Government and Institutions	3
POLSC 002	Introduction to Comparative Politics	3
POLSC 003	Introduction to Political Theory	3
POLSC 004	California Politics	3
POLSC 005	International Relations	3
POLSC 006	International Political Economy	3
PSYCH 001	Introduction to Psychology	3
PSYCH 002	Statistical Methods for Psychology and Social Science	3
PSYCH 003	Personal and Social Psychology	3
PSYCH 004	Introduction to Research Methods in Psychology	3
PSYCH 006	Lifespan Psychology	3
PSYCH 007	Abnormal Psychology	3
PSYCH 030/BIOL 030	Human Sexuality	3
SOCIO 001A	Introduction to Sociology	3
SOCIO 001B	Problems of a Changing Society	3
SOCIO 027	Gender in Contemporary Society	3
SOCIO 033	Social Inequality in the United States	3

Area C - Complete 6 additional units selected from any of the courses listed above.

Minimum Area of Emphasis Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Italian Language, Associate in Arts

The Major in Italian Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in Italian. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the Italian language with appropriate grammatical accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in the Italian language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

HUM 004/	Introduction to Linguistics	3
ANTHR 004		
HUM 019	Selected Topics: Study and Travel	2
ITAL 002	Elementary Italian II	5
ITAL 003	Intermediate Italian I	5
ITAL 004	Intermediate Italian II	5
ITAL 050H	Special Studies: Italian	1-2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Japanese Language, Associate in Arts

The Major in Japanese Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in Japanese at any of the four-year institutions in our area. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the Japanese language with appropriate grammatical accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in the Japanese language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

HIST 006A	History of Asian Civilization	3
HUM 004/	Introduction to Linguistics	3
ANTHR 004		
HUM 019	Selected Topics: Study and Travel	2
JAPAN 001	Elementary Japanese I	5
JAPAN 002	Elementary Japanese II	5
JAPAN 003	Intermediate Japanese I	5
JAPAN 004	Intermediate Japanese II	5
JAPAN 050H	Special Studies: Japanese	1-2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Spanish Language, Associate in Arts

The Major in Spanish Language provides a base of knowledge and skills that will serve as a foundation for further study and/or pursuit of a career. The major prepares students to pursue an undergraduate major in Spanish. Majors will develop proficiency in the four skills: speaking, listening, reading and writing. They will comprehend authentic written materials at the intermediate or advanced level, and they will be able to compose short texts with appropriate use of grammar, syntax and vocabulary. Majors will also show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which the language is spoken.

Program Learning Outcomes

1. Program completers will demonstrate clear and precise written expression in the Spanish language with appropriate grammatical accuracy and cultural awareness.
2. Program completers will demonstrate clear and precise oral expression in Spanish language with appropriate grammatical accuracy and cultural awareness.

General Education

Complete one of the following general education patterns:

- San Joaquin Delta College Associate Degree General Education (AA-GE) pattern (24 units)
- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Restricted Electives

Complete 18 units selected from:

HIST 031	Mexican-American History	3
HUM 004/ ANTHR 004	Introduction to Linguistics	3
HUM 019	Selected Topics: Study and Travel	2
SPAN 002	Elementary Spanish II	5
SPAN 003	Intermediate Spanish I	5
SPAN 003A	Spanish for Spanish Speakers I	5
SPAN 004	Intermediate Spanish II	5
SPAN 004A	Spanish for Spanish Speakers II	5
SPAN 005	Advanced Spanish Introduction to Literature I	5
SPAN 006	Advanced Spanish Introduction to Literature II	5
SPAN 050H	Special Studies: Spanish	1-2

Minimum Major Units Required: 18

Complete all courses with a grade of "C" or better.

Minimum Degree Units Required: 60

Spanish, Associate in Arts for Transfer

The Associate in Arts in Spanish for Transfer degree provides a sequential course of studies that will give students a greater understanding of the Spanish language and Spanish cultures/area studies. The program will promote language acquisition in a cultural context. Emphasis will be placed in the acquisition and development of communication skills (listening, speaking, reading and writing) and the promotion of cultural understanding (behaviors, institutions, perspectives and artistic manifestations.) This program

is designed as a seamless pathway for students planning to transfer to a California State University (CSU) with a major in Spanish, and for students who are interested in acquiring linguistic and cultural competency in Spanish.

Program Learning Outcomes

1. Students will demonstrate proficient oral expression in the Spanish language with appropriate grammatical accuracy, cultural awareness and a clear understanding of linguistic structures.
2. Students will demonstrate an understanding of the cultural diversity of Spanish speakers (including behaviors, institutions, historical perspectives and artistic manifestations).
3. Students will demonstrate proficient written expression in Spanish language with appropriate grammatical accuracy, cultural awareness and a clear understanding of linguistic structures.

General Education

Complete one of the following general education patterns:

- California State University General Education (CSU-GE) pattern (40 units)
- Intersegmental General Education Transfer Curriculum - CSU Version (IGETC-CSU) pattern (37 units)

Students are advised to double-count courses in the major or area of emphasis to also satisfy general education when possible. Course subject credit will be awarded in satisfaction of both major/area of emphasis and lower division general education requirements, but the units will only be counted once in computing the total number of units for the degree.

Major Requirements - Core

Complete 10 units

SPAN 001	Elementary Spanish I	5
SPAN 002	Elementary Spanish II	5

Major Requirements - Restricted Electives

Area A - Complete 5 units selected from:

SPAN 003	Intermediate Spanish I	5
SPAN 003A	Spanish for Spanish Speakers I	5

Area B - Complete 5 units selected from:

SPAN 004	Intermediate Spanish II	5
SPAN 004A	Spanish for Spanish Speakers II	5

Area C - Complete 3 units selected from:

HIST 031	Mexican-American History	3
HUM 004/ ANTHR 004	Introduction to Linguistics	3
SPAN 005	Advanced Spanish Introduction to Literature I	5
SPAN 006	Advanced Spanish Introduction to Literature II	5

Minimum Major Units Required: 23

Complete all courses with a grade of "C" or better. If a student places out of any core course(s) and is not awarded units for that course, the student will need to complete additional units from Restricted Electives to

compensate for the course/units required to reach at least 23 total units in the major.

Minimum Degree Units Required: 60

Languages, Library, and Learning Resources Division Certificate Programs

American Sign Language, Certificate of Achievement

The American Sign Language (ASL) certificate program provides students with fluency in working with deaf persons. The ASL certificate is a two-year program of study of a second language that prepares students to communicate at a paraprofessional level. The program satisfies the majority of lower division transfer course work by establishing ASL fluency for students planning to transfer to an ASL interpreting program or Deaf Studies program.

Program Learning Outcomes

Program completers will demonstrate clear and precise expressive and receptive skills in Sign Language with appropriate grammatical accuracy and cultural awareness.

Core Requirements

Complete 24 units

COM ST 007	Intercultural Communication	3
ENG 001A	Reading and Composition	3
SL 001	Elementary American Sign Language I	4
SL 002	Elementary American Sign Language II	4
SL 003	Intermediate American Sign Language I	4
SL 004	Intermediate American Sign Language II	4
SL 071	Elementary American Sign Language Laboratory	0.5-1
SL 072	Elementary American Sign Language Laboratory	0.5-1
SL 073	Intermediate American Sign Language Laboratory	0.5-1
SL 074	Intermediate American Sign Language Laboratory	0.5-1

Minimum Units Required: 24

Complete all courses with a grade of "C" or better.

COURSES AND PROGRAMS OFFERED AT DELTA COLLEGE

The Schedule of Classes is arranged alphabetically by discipline using the following abbreviations:

Courses & Programs

Accounting
Adaptive Learning
Administration of Justice
Administrative Assistant
Agricultural Business
Agricultural Engineering
Air Conditioning
American Sign Language
Anatomy
Animal Husbandry Sciences
Anthropology
Apparel Design
Architectural Drafting
Art
Astronomy
Athletics
Automotive Body
Automotive Mechanics
Automotive Technology
Baking & Pastry
Basic Academy: Institutions
Biology
Body & Fender
Botany
Broadcasting
Business
Business Administration
Business Information Management
Care Provider
Carpentry
Caterpillar
Chemistry
Child Development
Chinese
Cisco
Civil Engineering Technology
Civilizations
Communication Disorders
Communication Studies/Speech
Computer Networking Technology
Computer Science
Computer Science Applications
Computer Science Networking
Computer Science Programming
Computer Science Web Design
Computer Support Technician
Conservation
Construction Technology
Corrections
Culinary Arts
Dance
Data Entry
Developmental Education
Diesel Technology

Refer to

BUS
ALTW
A J
BIM
AGBUS
AGEGR
HVACR
SL
BIOL
AH SC
ANTHR
FASHION
ARCH
ART
ASTRO
ATH
AUTOBODY
AUTOMECH
AUTO
CUL ART
A J
BIOL
AUTO
BIOL
RTV
BUS
BUS
BIM
H S
CONST
CAT
CHEM
CDEV
CHIN
ELECT
ETECH
CIVIL
COMM DIS
COM ST
ELECT
CS
CSA
CSN
CSP
CSW
CS
N R
CONST
A J
CUL ART
DANCE
BIM
DV ED
DIESL

Drafting, Architectural
Drafting, Civil/Elect/Mech
Engineering
Drama
Early Childhood Education
Economics
Education
Engineering Technology
Electrical Technology
Electron Microscopy
Electronics Technology
Engineering
Engineering Technology
English
English as a Second Language
Family and Consumer Sciences
Family Day Care Provider
Fashion Merchandising and Design
Fluid Power
Foster and Kinship Care
French
Geography
Geology
German
Graphic Arts
Guidance
Health Education
Health Sciences
Heating & Air Conditioning
Heavy Equipment
History
Home Health Aid
Horticulture
Humanities
Hydraulics
Industrial Technology
Interior Design
International Business
Italian
Japanese
Keyboarding
Landscape
Language Pathology
Law Enforcement
Learning Skills
Life Management
Literature
Machine Shop
Management
Marketing & Merchandising
Mass Communications
Mathematics
Mechanical Technology
Medical Office
Microbiology
Municipal Clerk
Music

ARCH
E TECH

DRAMA
CDEV/FCS
ECON
EDUC
E TECH
ELEC
E M
ELECT
ENGR
E TECH
ENG
ESL
FCS
CDEV/FCS
FASHION
INDUS
FKC
FREN
GEOG
GEOL
GERM
GRART
GUID
H ED
H S
HVACR
DIESL/CAT
HIST
H S
HORT
HUM
INDUS
INDUS
ID
BUS
ITAL
JAPAN
BIM
HORT
COMM DIS
A J
LS
FCS
ENG
MECH
BUS
BUS
MCOM
MATH
MECH
BIM
BIOL
BUS
MUSIC

Natural Resources	N R
Network Hardware	ELECT
Network Software	CS
Nurse Assistant	H S
Nursing-Registered	NURS
	NURSADN
	FCS
Nutrition	BIM
Office, General	BIM
Office Management	BIM
Philosophy	PHILO
Photography	PHOTO
Physical Education Activities	PEACTIV
Physical Education Theory	PETHEORY
Physical Science	PHSCI
Physics	PHYSC
Physiology	BIOL
Plant Science	PLANT
Plumbing	A-CON
Police Science	A J
Political Science	POLSC
POST Basic Academy	A J
Printing	GRART
Probation/Parole	A J
Psychiatric Technology	NURSPT
Psychology	PSYCH
Public Administration	BUS
Radio/Television	RTV
Radiologic Technology	RAD
Reading	READING
Real Estate	BUS
Refrigeration/Air Conditioning	HVACR
Religion	RELGN
Retail Management	BUS
Sheet Metal	MECH
Sign Language	SL
Small Business	BUS
Social Science	SOC SC
Sociology	SOCIO
Spanish	SPAN
Speech	COM ST
Speech Language Pathology	COMM DIS
Transportation	BUS
Welding	WELDING
Word Processing/Desktop Publishing	BIM

Course Numbering

Transfer Credit — In accordance with Executive Order No. 167 issued by the Chancellor of the California State University on January 26, 1973, courses numbered 1 through 69, recommended by the faculty of San Joaquin Delta College, and designated as baccalaureate in nature shall be accepted by any campus of the California State University. Those courses are indicated by the initials "CSU" at the end of the catalog description.

Associate Degree Credit Courses — All courses numbered 1 through 69 and some courses numbered 70 through 99 may be applied toward the associate degree.

Non-Degree Credit Courses — Some courses numbered 70 through 99 are credit courses but may not be applied toward the associate degree or baccalaureate degree. Those courses are indicated as such in the catalog description.

Course Identification Numbering System (C-ID)

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should always check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer.

Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can always help students interpret or explain this information.

COURSE DESCRIPTIONS

In addition to being held on the Stockton campus, many of these courses are offered online, as hybrid courses, and at regional sites such as Manteca and the South Campus at Mountain House. Check the current Schedule of Classes for details.

Adaptive Learning Transition to Work

ALTW 075 - Selected Topics: Adaptive Learning - Units 0

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Adaptive Learning not already covered by the existing curriculum.

ALTW 131 - Adaptive Learning-Transition to Work-Reading - Units 0

This non-credit course is designed for students with intellectual disabilities. This course assists students being able to travel within their communities with minimal dependence upon others. Students develop appropriate work behavior and attitudes, learn conflict management and pro-active problem solving skills in an entry level job environment. Simulated experiences in the classroom will be combined with training in the neighborhood and community at large.

ALTW 132 - Adaptive Learning-Transition to Work-Math - Units 0

This non-credit course is designed for students with intellectual disabilities. The course provides the basic survival mathematical skills necessary for successful independent and semi-independent living. Areas of study include: number recognition, budgeting, money handling and practical applications.

ALTW 133 - Adaptive Learning-Transition to Work-Community Integration - Units 0

This non-credit course is designed for students with intellectual disabilities. This course assists students being able to travel within their communities with minimal dependence upon others. Students develop appropriate work behavior and attitudes, learn conflict management and pro-active problem solving skills in an entry level job environment. Simulated experiences in the classroom will be combined with training in the neighborhood and community at large.

ALTW 134 - Adaptive Learning-Transition to Work-Health Education - Units 0

This non-credit course is designed for the student with intellectual disabilities. The course provides an overview of health related issues, including basic nutrition, weight control, exercise, sexually transmitted diseases, and hygiene. The course includes health risks associated with obesity, behavior modification techniques to improve healthy choices, and the importance of exercise and activity in health management.

Administration of Justice

A J 015 - Selected Topics: Administration of Justice - Units 0.5-4

This course is designed to enable the College to offer instruction in one of the specialized areas of Administration of Justice not already covered by the existing curriculum. (CSU)

A J 021 - Criminal Justice in Society - Units 3

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course introduces students to the characteristics of the criminal justice system in the United States. Focus is placed on examining crime measurement, theoretical explanations of crime, responses to crime, components of the system, and current challenges to the system. The course examines the evolution of the principles and approaches utilized by the justice system and the evolving forces which have shaped those principals and approaches. Although justice structure and process is examined in a cross cultural context, emphasis is placed on the US justice system, particularly the structure and function of US police, courts, and corrections. Students are introduced to the origins and development of criminal law, legal process, and sentencing and incarceration policies. (UC, CSU)

A J 022 - Concepts of Criminal Law - Units 3

Prerequisites: A J-021 Criminal Justice in Society with a grade of "C" or better or.

Prerequisite Skills: 1. Advisory Reading Level II.

Corequisites: A J-021 Criminal Justice in Society.

Advisories: ENG-001A with a grade of "C" or better.

This course offers an analysis of the doctrines of criminal liability in the United States and the classification of crimes against persons, property, morals, and public welfare. Special emphasis is placed on the classification of crime, the general elements of crime, the definitions of common and statutory law, and the nature of acceptable evidence. This course utilizes case law and case studies to introduce students to criminal law. The completion of this course offers a foundation upon which upper-division criminal justice course will build. The course will also include some limited discussion of prosecution and defense decision making, criminal culpability, and defenses to crimes. (UC, CSU, C-ID AJ 120)

A J 023 - Principles and Procedures of the Justice System - Units 3

Advisories: A J-021 with a grade of "C" or better.

This course provides an examination and analysis of due process in criminal proceedings from pre-arrest through trial and appeal utilizing statutory law and state and constitutional law precedents. (CSU, C-ID AJ 122)

A J 024 - Legal Aspects of Evidence - Units 3

Advisories: A J 023 with a minimum grade of "C" or better.

This course examines categories of evidence and legal rules governing its admission and exclusion in the criminal process. (CSU, C-ID AJ 124)

A J 025 - Criminal Investigation - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: A J-021 with a grade of "C" or better.

This course addresses the techniques, procedures, and ethical issues in the investigation of crime, including organization of the investigative process, crime scene searches, interviewing and interrogating, surveillance, source of information, utility of evidence, scientific analysis of evidence and the role of the investigator in the trial process. (CSU, C-ID AJ 140)

A J 028 - Juvenile Law and Procedures - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is an examination of the origin, development, and organization of the Juvenile Justice System as it evolved in the American Justice System. The course explores the theories that

focuses on Juvenile Law, courts and processes, and the constitutional protections extended to juveniles administered in the American Justice System. (CSU, C-ID AJ 220)

A J 031 - Report Preparation - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to the practical aspects of gathering, organizing, and preparing written reports for law enforcement and correctional activities on local, state, and federal levels. The course includes the techniques of communicating facts, information, and ideas effectively in a simple, clear, and logical manner for various types of criminal justice system reports, letters, memoranda, directives, and administrative reports. The student gains practical experience in note-taking, report writing, and presenting testimony in court. (CSU)

A J 040 - Community Relations - Units 3

This course examines the complex, dynamic relationship between communities and the justice system in addressing crime and conflict with an emphasis on the challenges and prospects of administering justice within a diverse multicultural population. Topics may include the consensus and conflicting values in Cultural, Religion, and Law. (UC, CSU, C-ID AJ 160)

A J 041 - Narcotics Investigation and Control - Units 3

This course is designed to provide the student with an introduction to the identification of narcotics and dangerous drugs, contraband, investigation problems, laws, the impact of drug use on the community, and methods relating to the suppression and prosecution of narcotics and dangerous drug violations. (CSU)

A J 050H - Special Studies: Administration of Justice - Units 1-2

Prerequisites: A J-021 Criminal Justice in Society with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is open to any student who wishes to do advanced work in the field of administration of justice. The course may include research, directed reading, field work, class work, or advanced study. (CSU)

A J 051 - Introduction to Correctional Science - Units 3

Prerequisite Skills: 1. Advisory Reading Level II.

This course provides a history of and critical analysis of punishment, the various types of punishment, alternatives to punishment, and the impact of punishment on the Criminal Justice System, corrections, a critical examination of the types of correctional institutions and the clients housed in each institution, and an examination of contemporary correctional issues. (CSU, C-ID AJ 200)

A J 053 - Correctional Interviewing and Interventions - Units 3

This course is an overview of the techniques in interviewing and interventions available to practitioners in corrections. The student demonstrates the use of appropriate techniques and theories in confidence-building which may be used by the correctional employee in client interviews. This is a basic course for the student who is planning to enter or who is already employed within the correctional science field. (CSU)

A J 054 - Introduction to Probation and Parole - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed to provide an introduction to the structure and functions of probation as a judicial process and parole as an executive function. Comparisons of the correctional process concerned with the evaluation, treatment, and control of offenders are made. (CSU)

A J 055 - Control and Supervision in Corrections - Units 3

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: A J-051 with a grade of "C" or better.

This course is an overview of supervision and control of inmates in local, state, and federal correctional institutions. The issues of supervision and control in a continuum from institutional daily living through crisis situations are introduced and discussed. The course emphasizes the role played by the offender and the correctional worker. Topics include inmate subculture, violence, effects of crowding on inmates and staff, and coping techniques for correctional officers in a hostile prison environment. The causes and effects of abusive tactics are discussed. (CSU)

A J 057 - Legal Aspects of Corrections - Units 3

Advisories: A J-051 with a grade of "C" or better.

This course is designed to provide the student with an awareness of the historical framework, concepts, and precedents that guide correctional practice. The course addresses the individual's perspective of the corrections environment, the civil rights of prisoners, and the responsibilities and the liabilities of corrections officials. (CSU)

A J 089A - Arrest and Control: Penal Code 832 - Units 3

This course is designed to provide the student with an introductory overview of the law enforcement profession in the State of California. Completion of the course requires the student to demonstrate the principles of arrest and control using control techniques and handcuffs. This course satisfies the Commission on Peace Officer Standards and Training (POST) academic training requirements for California Penal Code Section 832.

A J 089B - Firearms: Penal Code 832 - Units 1

Limitations on Enrollment: Finger printing & Criminal Record Clearance.

This course is designed to provide the student with an overview of the safe handling, care, and use of a handgun. Completion of the course requires the student to demonstrate the principles of good marksmanship using a handgun. This course satisfies the Commission on Peace Officer Standards and Training (POST) performance training requirements for California Penal Code Section 832.

A J 090 - Selected Topics: Administration of Justice - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of administration of justice not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

A J 092V - Work Experience: Correctional Science - Units 1-8

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better and.

This course is designed for the student employed in administration of justice. The course objectives are developed by the students in consultation with his or her supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete

an application form available at the Applied Science and Technology Division office, Holt 140.

A J 094 - Peace Officer Academy Orientation - Units 3

Limitations on Enrollment: Successful passage of Academy testing and examination process. Passing of the POST Academy Entry Exam.

This course is designed to familiarize the student with the Peace Officer Standards and Training (P.O.S.T.) Peace Officer Academy training program and provide a better understanding of the requirements and commitments that must be considered.

A J 095A - Basic Police Academy Mod. III - Units 6.5

Prerequisites: A J-094 Peace Officer Academy Orientation with a grade of "C" or better.

Limitations on Enrollment: Finger printing & Criminal Record Clearance.

This course is designed for basic entry-level training for the student preparing for a position as a Level III (3) Reserve Officer, full time Peace Officer, or Deputy Sheriff. The course is certified by the State of California Commission on Peace Officer Standards and Training (POST). Upon successful completion, the student will be eligible to enroll in AJ 095B.

A J 095B - Basic Police Academy Module II - Units 9

Prerequisites: A J-095A Basic Police Academy Module III with a grade of "B" or better.

Limitations on Enrollment: Finger printing & Criminal Record Clearance.

This course is designed for basic entry-level training for the student preparing for a position as a Level II (2) Reserve Officer, full time Peace Officer, or Deputy Sheriff. This course is certified by the State of California Commission on Peace Officer Standards and Training (POST). Upon successful completion, the student will be eligible to enroll in AJ 095C.

A J 095C - Basic Police Academy Module I - Units 20.5

Prerequisites: A J-095B Basic Police Academy Module II with a grade of "B" or better.

Limitations on Enrollment: Finger printing & Criminal Record Clearance.

This course is designed for basic entry-level training for the student preparing for a position as a Level I (1) Reserve Officer, full time Peace Officer, or Deputy Sheriff. The course is certified by the State of California Commission on Peace Officer Standards and Training (POST). Upon successful completion, the student receives a Certificate of Achievement of the Basic Peace Officer Academy and is certified by the State of California Department of Justice.

Agriculture Business

AGBUS 005 - Introduction to Agriculture Business - Units 3

Provides a basic understanding of the business and economics of the agricultural industry; an introduction to the economic aspects of agriculture and their implications to the agricultural producer, consumer and the food system; management principles encountered in the day to day operation of an agricultural enterprise as they relate to the decision making process. (CSU, C-ID AG - AB 104)

AGBUS 010 - Agricultural Accounting - Units 3

Prerequisite Skills: 1. Reading Level II.

The study of the principles of agricultural accounting systems and types of records, their use and how to compute and use measures of earnings and cost of production to improve agribusiness

efficiency. Farm income tax, Social Security, and employee payroll records also included. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (CSU, C-ID AG - AB 128)

AGBUS 012 - Agricultural Economics - Units 3

The place of agriculture and farming in the economic system; basic economic concepts, and problems of agriculture; pricing and marketing problems, factors of production; and state and federal farm programs affecting the farmer's economic position. (UC, CSU, C-ID AG-AB 124)

AGBUS 015 - Agribusiness Computer Applications - Units 3

Computer use in the workplace with emphasis on agribusiness situations. Computer applications including word-processing, spreadsheets, databases, and presentation managers will be covered. Also included will be accessing information through the Internet and World Wide Web, telecommunications, an introduction to web page design and other software appropriate to agribusiness. Application of these concepts and methods through hands-on projects developing computer-based solutions for agriculture business. (CSU, C-ID AG AB 108)

AGBUS 046 - Agricultural Sales and Communications - Units 3

Prerequisite Skills: 1. Reading Level II.

The study of principles and practices of the selling process: selling strategies and approaches, why and how people buy, prospecting, territory management, and customer service. Self-management, communication, and interpersonal skills necessary in developing managerial abilities, leadership qualities, and facilitating teamwork within the agribusiness sector will be explored. The course content is organized to give students an in-depth understanding of the factors and influences that affect the agribusiness industry on a day-to-day basis. Application of these concepts and methods through hands-on projects developing solutions for agriculture business. (CSU)

AGBUS 049 - Selected Topics: Agriculture Business - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Agriculture Business not already covered by the existing curriculum. (CSU)

AGBUS 050H - Special Studies: Agriculture Business - Units 1-4

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

Advisories: AGBUS-012 with a grade of "C" or better.

This course is open to the student qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study. (CSU)

AGBUS 069V - Internship: Agricultural Business - Units 1-8

Prerequisite Skills: Advisories - GUID 030 Advisories - GUID 031 Advisories - GUID 032 Advisories - GUID 033.

Limitations on Enrollment: The student must enroll in a course that is directly related to the agricultural business internship. The student must enroll in a minimum of 7 units during the semester including internship units. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and

GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational internship in agricultural business. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

AGBUS 075 - Selected Topics: Agriculture - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of agriculture not already covered by the existing curriculum. Units earned in this course do not count towards the associate degree.

AGBUS 096V - Work Experience: Agricultural Business - Units 1-8

Limitations on Enrollment: The student must enroll in a course that is directly related to the agricultural business work experience. The student must enroll in a minimum of 7 units during the semester including work experience units. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 GUID-031 GUID-032 GUID-033 each with a grade of "C" or better.

This course is designed for the student employed in agricultural business. The course objectives are developed by the students in consultation with their supervisor. Students are engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

Agriculture Engineering

AGEGR 015 - Selected Topics: Agriculture Engineering - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Agriculture Engineering not already covered by the existing curriculum. (CSU)

AGEGR 021 - Agricultural Welding - Units 2

This course is designed to introduce the techniques used in the construction and repair of agricultural equipment. The student uses arc welders and oxy-acetylene torches for fusion welding, heating, brazing, cutting, and hardsurfacing metals. Metal Inert Gas (MIG) and Tungsten Inert Gas (TIG) welding are emphasized. (CSU)

AGEGR 030C - Industrial Equipment: Electrical and Electronic Systems - Units 5

This course is designed to instruct the student to analyze and repair electrical problems found on industrial and commercial engines and equipment. (CSU)

AGEGR 030D - Industrial Equipment: Power Trains - Units 5

This course is designed to introduce specialized applications, drive trains, clutches, transmissions, and final drives. The student

learns how to write work orders, develops parts lists, and works with customers. (CSU)

AGEGR 074 - Basic Engines - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an introduction to the fundamentals of two-stroke and four-stroke engines in relationship to oils, lubrication, safety inspections, precision measurements, and related mathematics.

AGEGR 075 - Selected Topics: Agricultural Engineering - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Agricultural Engineering not already covered by the existing curriculum.

Animal Husbandry Sciences

AH SC 010 - Principles of Animal Science - Units 3

Prerequisite Skills: 1. Reading Level II.

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics and epidemiology. Emphasis on the origin, characteristics, adaptations and contributions of livestock to the modern agriculture industry. (UC, CSU)

AH SC 010L - Principles of Animal Science Laboratory - Units 1

Prerequisites: AH SC 010 with a minimum grade of "C" or better or concurrently enrolled.

This course is designed to provide an introduction to the empirical methods including data collection and analysis as well as an investigation of the basic management concepts associated with animal science. (CSU, UC)

AH SC 011A - Introduction to Livestock Evaluation - Units 2

This course is designed to introduce the student to the basic factors involved in evaluation and selection of breeding, feeder and market animals, and the application of these factors in the livestock industry. The visual appraisal of live animals and carcasses combined with production records are used to determine the practical usefulness and productivity of livestock. (UC, CSU)

AH SC 011B - Beginning Livestock Evaluation - Units 2

Prerequisites: AH SC 011A, Introduction to Livestock Evaluation, with a grade of "C" or better.

This course is designed to introduce the student to the basic factors involved in evaluation and selection of breeding, feeder and market animals, and the application of these factors in the livestock industry. The visual appraisal of live animals and carcasses combined with production records are used to determine the practical usefulness and productivity of livestock. (UC, CSU)

AH SC 011C - Intermediate Livestock Evaluation - Units 2

Prerequisites: AH SC 011B, Beginning Livestock Evaluation, with a grade of "C" or better.

This course is designed to introduce the student to the basic factors involved in evaluation and selection of breeding, feeder and market animals and the application of these factors in the livestock industry. The visual appraisal of live animals and carcasses, combined with production records, will be used to determine the practical usefulness and productivity of livestock. (UC, CSU)

AH SC 011D - Advanced Livestock Evaluation - Units 2

Prerequisites: AH SC-011C Intermediate Livestock Evaluation

with a grade of "C" or better.

This course is designed to introduce the student to the basic factors involved in evaluation and selection of breeding, feeder and market animals, and the application of these factors in the livestock industry. The visual appraisal of live animals and carcasses combined with production records are used to determine the practical usefulness and productivity of livestock. (UC, CSU)

AH SC 015 - Selected Topics: Animal Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Animal Science not already covered by the existing curriculum. (CSU)

AH SC 019 - Feeds and Feeding - Units 3

Prerequisites: AH SC-010 Principles of Animal Science and MATH-078 Prealgebra each with a grade of "C" or better or Math Level II.

Prerequisite Skills: 1. Math Level II.

This course, the science of animal nutrition, is the basis for "Livestock Feeding and Nutrition". The fundamentals of digestion and absorption in both ruminants and non-ruminants are discussed. The nutritive value of feeds as they relate to the formulation of livestock rations will be emphasized including by-product feeding. (CSU)

AH SC 025A - Introduction to Livestock Presentation - Units 2

This course is designed to prepare the student to apply animal husbandry practices and procedures that are involved with domestic farm animals. The use of equipment and facilities, handling of animals, and preparation of a budget and calendar of operations are discussed. The planning and purchase of feeder animals are covered. (CSU)

AH SC 025B - Beginning Livestock Presentation - Units 2

Prerequisites: AH SC-025A Introduction to Livestock Presentation with a grade of "C" or better.

This course is designed to prepare the student to apply animal husbandry practices and procedures that are involved with domestic farm animals. The use of equipment and facilities, handling of animals, and preparation of a budget and calendar of operation are discussed. The planning and purchase of feeder animals are covered. (CSU)

AH SC 025C - Intermediate Livestock Presentation - Units 2

Prerequisites: AH SC-025B Beginning Livestock Presentation with a grade of "C" or better.

This course is designed to prepare students to apply animal husbandry practices and procedures that are involved with domestic farm animals. The use of equipment and facilities, handling of animals, and preparation of a budget and calendar of operation are discussed. The planning and purchase of feeder animals are covered. (CSU)

AH SC 025D - Advanced Livestock Presentation - Units 2

Prerequisites: AH SC-025C Intermediate Livestock Presentation with a grade of "C" or better.

This course is designed to prepare the student to apply animal husbandry practices and procedures that are involved with domestic farm animals. The use of equipment and facilities, handling of animals, and preparation of a budget and calendar of operation are discussed. The planning and purchase of feeder animals are covered. (CSU)

AH SC 050H - Special Studies: Animal Husbandry Sciences - Units 1-2

Prerequisites: AH SC-010 Principles of Animal Science or AH SC-010L Principles of Animal Science Laboratory each with a grade of "B" or better.

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

This course is open to the student qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study. (CSU)

AH SC 069V - Internship: Animal Science - Units 1-8

Limitations on Enrollment: Instructor Permission.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational internship in animal science. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

AH SC 075 - Selected Topics: Animal Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Animal Science not already covered by the existing curriculum.

AH SC 096V - Work Experience: Animal Husbandry Science - Units 1-8

Limitations on Enrollment: Instructor Permission.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student employed in the area of animal science. The course objectives are developed by the students in consultation with his or her supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor.

Anthropology

ANTHR 001 - Cultural Anthropology - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is an introduction to the anthropological study of culture. The course emphasizes cultural similarities and differences worldwide with respect to kinship, marriage, economics, politics, religion, and social inequality. (UC, CSU)

ANTHR 002 - Biological Anthropology - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG 1A with a minimum grade of "C" or better.

This course introduces the concepts, methods of inquiry, and scientific explanations for biological evolution and their application to the human species. Issues and topics will include, but are not limited to, genetics, evolutionary theory, human variation and biocultural adaptations, comparative primate anatomy and behavior, and the fossil evidence for human evolution. The scientific method serves as a foundation of the course. The course may include a lab component. (UC, CSU)

ANTHR 002L - Biological Anthropology Laboratory - Units 1

Prerequisites: ANTHR 002 with a minimum grade of "C" or better or concurrently enrolled.

This laboratory course is offered as a supplement to Introduction to Biological Anthropology either taken concurrently or in a subsequent term. Laboratory exercises are designed to introduce students to the scientific method and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record and other resources to investigate processes that affect human evolution. (UC, CSU, C-ID ANTH 115L)

ANTHR 004 - Introduction to Linguistics - Units 3

Prerequisites: Reading Level II.

This course is an introduction to the study of language in theory and practice. The student explores what is known about human language including: its uniqueness, its structure, its use, its diversity, and its universality. An effort is made to analyze the relationship between language, culture, and social levels. (UC, CSU)

ANTHR 006 - Introduction to North American Indians - Units 3

This course is a comparative study of native American Indians and cultures from the Arctic to the southern border of the United States, using ethnographic materials. This course examines native ecological adaptations, political organization, kinship systems, religions, and world views, as well as contemporary issues and problems. (UC, CSU)

ANTHR 010 - Introduction to Archaeology - Units 3

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of the development of archaeology as an anthropological study, with particular emphasis on the contributions of archaeology toward supplementing man's understanding of the development of human culture. The objectives, methods, and techniques of modern archaeology are combined with a survey of major archaeological sites and cultures. (UC, CSU)

ANTHR 010L - Beginning Field Archaeology - Units 1

Prerequisites: ANTHR-010 Introduction to Archaeology with a grade of "C" or better.

Corequisites: ANTHR-010 Introduction to Archaeology.

This course is an introduction to archaeological field techniques. This course stresses the methods involved in identifying and investigating archaeological sites and features. It will cover survey and excavation techniques, sampling strategies, mapping and navigation, recording techniques and recovery strategies. The course emphasizes the care and preservation of artifacts, as well as analysis of artifacts and interpretation of the cultural remains. (CSU)

ANTHR 015 - Selected Topics: Anthropology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of Anthropology not already covered by the existing curricula. (CSU)

ANTHR 050H - Special Studies: Anthropology - Units 1-2

Prerequisites: ANTHR-001 Cultural Anthropology or ANTHR-002 Physical Anthropology or ANTHR-010 Introduction to Archaeology each with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is designed to allow the qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

ANTHR 075 - Selected Topics: Anthropology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Anthropology not already covered by the existing curriculum.

Architectural Drafting**ARCH 001 - Basic Architectural Drafting - Units 3**

Prerequisite Skills: 1. Reading level II.

This course is an introduction to drafting for the student majoring in architecture, interior design, or construction. Course topics include techniques and skills of drafting and design, introduction to building codes and construction methods, and basic construction documents used to communicate the building process. (CSU)

ARCH 005 - Architectural Detailing - Units 4

Prerequisites: ARCH 001 and ARCH 010, both with a minimum grade of "C" or better.

Corequisites: ARCH 010.

This course is an introduction to drafting of construction details as they apply to various architectural structures. Building codes and regulations pertinent to the various details are emphasized. (CSU)

ARCH 006 - Digital Tools for Architecture - Units 3

Prerequisites: ARCH-001, Basic Architectural Drafting, or ARCH-020, Architectural Design and Drawing I, each with a grade of "C" or better.

Corequisites: ARCH-020, Architectural Design and Drawing I..

Advisories: Reading level II.

This course is an introduction to digital tools employed in computer design and presentation for architecture students. Topics including image editing, page layout and 3D modeling. (CSU)

ARCH 008 - Materials of Construction - Units 3

This course is designed to instruct the student in the uses and applications of processes and materials related to general construction. (CSU)

ARCH 010 - Computer-Aided Drafting for Architecture - Units 3

Prerequisites: ARCH-001 Basic Architectural Drafting with a grade of "C" or better or.

Corequisites: ARCH-001 Basic Architectural Drafting.

This course is designed to instruct the student in the utilization of Computer-Aided Drafting (CAD) software on microcomputer CAD systems, with particular emphasis on architectural applications. (CSU)

ARCH 014 - Advanced Architectural Practice - Units 3

Prerequisites: ARCH 001 with a grade of "C" or better; and ARCH 010 with a grade of "C" or better.

Corequisites: ARCH 010.

Advisories: Reading level II.

This course provides training in the use of BIM (building information modeling) software. An introduction, and overview of various architectural topics related to sustainability and "green" architecture is included. Students complete a final project related to these topics utilizing BIM software. (CSU)

ARCH 015 - Selected Topics in Architecture - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of architecture not already covered by the existing curriculum. (CSU)

ARCH 020 - Architectural Design and Drawing I - Units 3

This course includes the principles, concepts, methods and skills pertaining to the freehand and drafted construction of drawings employing orthographic, axonometric, oblique, and dimetric drawing systems. The principles and concepts of two and three dimensional visual and architectural design are included. (UC, CSU)

ARCH 021 - Architectural Design and Drawing II - Units 3

Prerequisites: ARCH-020 Architectural Design and Drawing I with a grade of "C" or better.

This course is a continuation and development of the content and issues introduced in Arch 20 plus the principles, concepts, methods and skills pertaining to the freehand and drafted construction of shadows, physical model building, entourage and color theory. (UC, CSU)

ARCH 076 - Selected Topics: Architectural Drafting - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of architectural drafting not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

ARCH 078 - Building Codes - Units 3

This course is designed to introduce building codes applicable to residential, commercial, and public structures. The student may receive credit for this course for a maximum of four semesters.

Art

ART 001A - Art History: Europe from Prehistory to 1400 - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course provides an overview of western art and architecture from prehistory through the medieval period. (UC, CSU, C-ID ARTH 110)

ART 001B - Art History: Europe from the Fifteenth to the Twentieth Century - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG 001A with a grade of "C" or better.

This course is a survey of the history of architecture, painting and sculpture of the Western tradition from 1400 A.D. to the twentieth century. (UC, CSU)

ART 001C - Modern and Contemporary Art History - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is designed to provide a survey of the visual arts from the mid-nineteenth century to the present with an emphasis on Europe and North America. (UC, CSU, C-ID ARTH 150)

ART 002 - Art History of the Non-Western World - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed as a survey of the arts of Oceania, Africa, pre-Columbian America, Native America, and Asia. (UC, CSU)

ART 003 - Art Appreciation - Units 3

Prerequisite Skills: 1. Reading Level II.

This course provides the non-art major a general introduction to art that offers a look at works of art through the study of theory, terminology, themes, design principles, media, techniques, with an introduction to the visual arts across time and diverse cultures. This is not a studio art class. (UC, CSU, C-ID ARTH 100)

ART 004 - Exploring Art - Units 3

This is an appreciation course especially designed for non-art majors. It provides hands-on experiences in visual expression in a variety of two and three dimensional media. (UC,CSU)

ART 005 - Selected Topics: Art - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of art not already covered by existing curricula. (CSU)

ART 006 - Color and Design - Units 3

Prerequisite Skills: 1. Reading Level II.

Introduction to the concepts, applications, and historical references related to theory and two-dimensional design, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments. (UC, CSU, C-ID ARTS 100)

ART 007A - Painting I - Units 3

Advisories: ART 33A with a minimum grade of "C".

This course is an introduction to principles, elements, and practices of painting. Focus on exploration of painting materials, perceptual skills and color theory, paint mixing and technique, as well as creative responses to materials and subject matter. Basic concepts of acrylic painting are introduced.(UC, CSU)

ART 007B - Painting II - Units 3

Prerequisites: ART-007A Painting I with a grade of "C" or better.

This course is a study and rendering of painted forms for effective communication. The course emphasizes refinement and application of painting techniques for the solution of more complex design problems. (CSU)

ART 007C - Painting III - Units 2

Prerequisites: ART-007B Painting II with a grade of "C" or better.

This course is an advanced study of painting forms for effective communication. The course emphasizes the development of individual style and content. (CSU)

ART 007D - Painting IV - Units 2

Prerequisites: ART-007C Painting III with a grade of "C" or better.

This course is a further study of rendering of painted forms for effective communication. The course emphasizes the

development of a body of work in preparation for a professional career in painting. (CSU)

ART 012 - 3-D Design - Units 3

Advisories: Reading Level II.

This course is an introduction to the elements and principles of design as they apply to three-dimensional forms. Focus will be placed on understanding these theories through the creation of design projects in various media. This course is recommended as a foundation for students who plan to pursue any studies that deal with three-dimensional forms in a creative way. Note: This is a studio art course, not a computer graphics course. (UC, CSU, CSU-GE)

ART 020A - Sculpture I - Units 3

This course is an introduction to the basic principles, techniques and concepts used in sculpture. Various sculpture methods are practiced, such as additive, subtractive and construction, with attention to historical and contemporary context. (UC, CSU)

ART 020B - Sculpture II - Units 3

Prerequisites: ART-020A Sculpture I with a grade of "C" or better.

This course is a further study of principles, techniques and concepts used in sculpture. Various sculpture methods are practiced, such as metal fabrication, mold making and casting, with attention to historical and contemporary context. (UC, CSU)

ART 020C - Sculpture III - Units 2

Prerequisites: ART-020B Sculpture II with a grade of "C" or better.

This course is a study of advanced principles, techniques and concepts used in sculpture. The course emphasizes the development of individual style and its application to solving specialized assignments. (UC, CSU)

ART 020D - Sculpture IV - Units 3

Prerequisites: ART-020C Sculpture III with a grade of "C" or better.

This course is for refined focus and study in advanced sculpture. The course emphasizes the development and creation of a cohesive body of sculptural works. (CSU)

ART 033A - Beginning Drawing - Units 3

Prerequisite Skills: 1. Reading Level II.

Introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter. (UC, CSU, C-ID ARTS 110)

ART 033B - Intermediate Drawing - Units 3

Prerequisites: ART-033A Beginning Drawing with a grade of "C" or better.

This course is a study of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing. (UC, CSU, C-ID ARTS 205)

ART 033C - Figure Drawing - Units 3

Prerequisites: ART-033B Intermediate Drawing with a grade of "C" or better.

This course is a study of the human figure. The course concentrates on the analysis and understanding of traditional

figure drawing styles and their modern variations. Techniques of awareness of form structure and the human figure are practiced with attention to expressive possibilities. (UC, CSU, C-ID ARTS 200)

ART 040A - Printmaking I - Units 3

This course is an introduction to the basic materials, equipment, and processes of printmaking, including monotype, relief (linocut and woodcut), intaglio (dryout, etching, and collagraph) (UC, CSU).

ART 040B - Printmaking II - Units 3

Prerequisites: ART-040A Beginning Printmaking with a grade of "C" or better.

This course is a continuation study of processes and applications in basic printmaking. This course emphasizes refinement and application of Printmaking techniques, including monotype, relief (linocut and woodcut), intaglio (drypoint, etching, and collagraph) for the solution of more complex design problems. (UC, CSU)

ART 040C - Printmaking III - Units 2

Prerequisites: ART-040B Intermediate Printmaking with a grade of "C" or better.

This course is a study of more complex printmaking processes and applications. Students will begin to identify types of printmaking that they wish to focus on for creative and technical advancement. This course emphasizes refinement and application of Printmaking techniques, including monotype, relief (linocut and woodcut), intaglio (drypoint, etching, and collagraph) for the solution of more complex design problems. (UC, CSU)

ART 040D - Printmaking IV - Units 2

Prerequisites: ART-040C Printmaking III with a grade of "C" or better.

This is a continuation course in the advanced study of complex printmaking processes and applications. This course emphasizes refinement and application of specific types of printmaking chosen by the student as an area of focus. Printmaking techniques, printing press calibration specific to printing challenges and experimental exploration will be addressed. (CSU)

ART 050H - Special Studies: Art - Units 1-2

Prerequisites: ART-001A Art History: Europe from Prehistory to 1400 or ART-001B Art History: Europe from the Fifteenth to the Twentieth Century or ART-007A Beginning Painting or ART-020A Sculpture I or ART-033A Beginning Drawing or ART-040A Beginning Printmaking or ART-064A Ceramics I each with a grade of "B" or better.

This course is open the student qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study. (CSU)

ART 064A - Ceramics I - Units 3

This course is designed as a study and use of clay forms for effective communication. The course concentrates on the analysis and understanding of traditional ceramic styles and their modern variations. Ceramic artwork from differing cultures, time periods and artists will be analyzed and critiqued while investigating how societal and technological beliefs and developments have influenced the evolution of the ceramic arts. Basic techniques of hand building are practiced. Assignments and projects for this course require no prior knowledge of tools, equipment or ceramic materials. (UC, CSU)

ART 064B - Ceramics II - Units 3

Prerequisites: ART-064A Ceramics I with a grade of "C" or better.

This course is designed as a study in the use of clay for effective visual communication. The course emphasizes the refinement and application of wheel techniques for the solution of more complex design problems. The proper stacking of kilns and the practice of glaze development is introduced. (UC, CSU)

ART 064C - Ceramics III - Units 2

Prerequisites: ART-064B Ceramics II with a grade of "C" or better.

This course is designed as a study and use of clay for effective visual communication. The course emphasizes the development of individual style and its application to solving specialized assignments related to professional goals. Kiln building and firing is introduced. (CSU)

ART 064D - Ceramics IV - Units 2

Prerequisites: ART 064C with a grade of "C" or better.

This course is intended for study in the development of individual style and its application to solving advanced ceramic assignments. (CSU)

ART 075 - Selected Topics: Art - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Art not already covered by the existing curriculum.

Astronomy

ASTRO 001 - Introductory Astronomy - Units 3

Prerequisites: MATH-090 Beginning Algebra with a grade of "C" or better or higher level Math or minimum of level 4 on the math placement test.

This course is a description of general astronomy covering topics that include our solar system (planets, asteroids, and comets), our Sun, the birth and evolution of stars, galaxies (including the Milky Way), clusters of galaxies, quasars, black holes, and cosmology. (UC, CSU)

ASTRO 001L - Astronomy Laboratory - Units 1

Prerequisites: ASTRO-001 Introductory Astronomy with a grade of "C" or better.

Corequisites: ASTRO-001 Introductory Astronomy.

This course is laboratory work performing quantitative experiments of physical phenomena relating to astronomy. The experiments may include working in the planetarium on campus or with planetarium software. Observations using telescopes are also included. (UC, CSU)

ASTRO 015 - Selected Topics: Astronomy - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Astronomy not already covered by the existing curriculum. (CSU)

ASTRO 075 - Selected Topics: Astronomy - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Astronomy not already covered by the existing curriculum.

Athletics

ATH 001 - Off Season Sports Conditioning - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in a vigorous training program for intercollegiate athletics. This course is designed to expose the student to the various components of sport-related conditioning. The student develops a theoretical knowledge of these components and participate in activities that include jogging, running, plyometrics, as well as strength and flexibility training. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 002 - In Season Conditioning - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is designed for the athlete wishing to participate in a vigorous training program for intercollegiate athletics in season. This course is designed to expose the student to the various components of sport-related conditioning. The student develops a theoretical knowledge of these components and participates in activities that include jogging, running, plyometrics, as well as strength and flexibility training. This course is repeatable per Title 5 section 55041(a)(2). (UC, CSU)

ATH 015 - Selected Topics: Athletics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is designed to offer instruction in one of the specialized areas of athletics not already covered by the existing curricula. (CSU)

ATH 038 - Intercollegiate Beach Volleyball - Units 1.5

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 Section 55041(a)(2). (CSU)

ATH 039 - Off Season Swimming - Units 0.5-1.5

Limitations on Enrollment: Athletic tryout and team selection.

This course is designed for the athlete wishing to participate in intercollegiate swimming. Course content will include: sport specific skill development, sport specific strength training, speed development, agility training, plyometric drills, cardiovascular conditioning, and an increase in flexibility. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 040 - Off Season Water Polo - Units 0.5-1.5

Limitations on Enrollment: Athletic tryout and team selection.

This course is designed for the athlete wishing to participate in intercollegiate water polo. Course content will include: sport specific skill development, sport specific strength training, speed development, agility training, plyometric drills, cardiovascular conditioning, and an increase in flexibility. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 041 - Off Season Volleyball - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate volleyball. Course content will include: sport specific skill development, sport specific strength training,

cardiovascular conditioning, agility work, plyometrics, speed training, and flexibility exercises. (UC, CSU)

ATH 042 - Off Season Wrestling - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate wrestling. This course involves training and conditioning skills and techniques specific to wrestling. Students will have the opportunity to obtain knowledge and practical experience in intercollegiate wrestling. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 043 - Off Season Basketball - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate basketball. Course content will include: collegiate level basketball-specific skill development, sport specific strength training, agility work, plyometrics, speed training and flexibility exercises. (UC, CSU)

ATH 044 - Off Season Soccer - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection. Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is designed for the athlete wishing to participate in intercollegiate soccer. Course content will include: sport specific skill development, sport specific strength training, cardiovascular conditioning, agility work, plyometrics, speed training, and flexibility exercises. This course is repeatable per Title 5 section 55041(a)(2). (UC, CSU)

ATH 045 - Off Season Baseball - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate baseball. Course content will include: sport specific skill development, sport specific strength training, cardiovascular conditioning, agility work, plyometrics, speed training, and flexibility exercises. This course is repeatable per Title 5 Section 55041(a)(2). (CSU, UC)

ATH 046 - Off Season Football - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate football. Course content will include: sport specific skill development, sport specific strength training, speed development, agility training, plyometric drills, cardiovascular conditioning, and an increase in flexibility. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 047 - Off Season Softball - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate softball. Course content will include: sport specific skill development, sport specific strength training, cardiovascular conditioning, agility work, plyometrics, speed training, and flexibility exercises. This course is repeatable per Title 5 Section 55041(a)(2). (CSU, UC)

ATH 048 - Off Season Track and Field - Units 0.5-1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is designed for the athlete wishing to participate in intercollegiate track and field. Course content will include: collegiate level track-specific skill development, sport specific strength training, agility work, plyometrics, speed training and flexibility exercises. This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 049 - Golf Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 050 - Soccer Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 051 - Water Polo Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 052 - Football Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 053 - Cross Country Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 054 - Baseball Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

Advisories: PEACTIV-027 with a grade of "C" or better or Recommended that student have played varsity baseball in high school and taken PE027 in the summer or fall semester.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 055 - Golf Team: Men - Units 1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 Section 55041(a)(2). (CSU)

ATH 056 - Basketball Team: Men - Units 1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established

through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 section 55041(a)(2). (UC, CSU)

ATH 057 - Track Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 058 - Wrestling Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 060 - Swimming & Diving Team: Men - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 Section 55041(a)(2). (UC, CSU)

ATH 061 - Soccer Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 062 - Volleyball Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 063 - Swimming and Diving Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 Section 55041(a)(2). (UC, CSU)

ATH 064 - Basketball Team: Women - Units 1.5

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 section 55041(a)(2). (UC, CSU)

ATH 065 - Softball Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility

Code requirements and after tryouts, be selected for the team.

Advisories: PEACTIV-028 with a grade of "C" or better.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 067 - Water Polo Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

Must meet the California Community College Athletic Eligibility Code requirements and after tryouts, be selected for the team.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 section 55041(a)(2). (UC, CSU)

ATH 068 - Track Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 069 - Cross Country Team: Women - Units 3

Limitations on Enrollment: Athletic Tryout & Team Selection.

This course is part of the intercollegiate athletic program of Delta College. Delta College participates in the conference established through the Community College League of California's Commission on Athletics (COA). This course is repeatable per Title 5 S55041(a)(2). (UC, CSU)

ATH 075 - Selected Topics: Athletics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Athletics not already covered by the existing curriculum.

Auto Body

AUTOBODY075 - Selected Topics: Auto Body - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Auto Body not already covered by the existing curriculum.

AUTOBODY080A - Auto Body Repair - Units 2

This course is designed to emphasize the basic auto body safety standards. Course topics include elementary sheetmetal repair, auto body welding, metal finishing, plastic fillers, grinding, and shrinking.

AUTOBODY080B - Auto Body Repair - Units 2

Prerequisites: AUTOBODY-080A Auto Body Repair with a grade of "C" or better.

This course is designed to emphasize metal inert gas (MIG) welding of light gauge material, basic auto body hand tools, advanced metal finishing, grinding, filling, removal of body parts, and basic painting procedures.

AUTOBODY080H - Auto Body Repair - Units 2

Prerequisites: AUTOBODY-080G Auto Body Repair with a

grade of "C" or better.

This course is designed to emphasize paint spraying, rubbing and polishing techniques, custom painting tools, materials and equipment, introduction to electromechanical components, overview of apprenticeship programs, and awareness of auto body business practices.

AUTOBODY081A - Introductory Auto Collision Repair Laboratory - Units 1

Prerequisites: AUTOBODY-084A Introductory Auto Collision Repair with a grade of "C" or better.

Corequisites: AUTOBODY-084A Introductory Auto Collision Repair.

This course is designed to provide additional laboratory experiences for the student enrolled in AUTO 84A. Areas of emphasis include sheet metal welding, metal straightening and finishing, and filling of materials.

AUTOBODY081B - Beginning Auto Collision Repair Laboratory - Units 1

Prerequisites: AUTOBODY-081A Introductory Auto Collision Repair Laboratory with a grade of "C" or better.

Corequisites: AUTOBODY-084B Beginning Auto Collision Repair.

This course is designed to provide additional laboratory experiences for the student enrolled in AUTO 84B. Areas of emphasis include auto body collision repair, refinement of metal working skills, and removing, repairing, and replacing trim and upholstery.

AUTOBODY081C - Intermediate Auto Collision Repair Laboratory - Units 1

Prerequisites: AUTOBODY-081B Beginning Auto Collision Repair Laboratory with a grade of "C" or better.

Corequisites: AUTOBODY-084C Intermediate Auto Collision Repair.

This course is designed to provide additional laboratory experiences for the student enrolled in AUTO 84C. Areas of emphasis include minor collision repair and preparation for spot painting.

AUTOBODY081D - Advanced Auto Collision Repair Laboratory - Units 1

Prerequisites: AUTOBODY-081C Intermediate Auto Collision Repair Laboratory with a grade of "C" or better.

Corequisites: AUTOBODY-084D Advanced Auto Collision Repair.

This course is designed to provide additional laboratory experiences for the student enrolled in AUTO 84D. Areas of emphasis include major collision repair. The student will be assigned shop work which will be evaluated against industry standards.

AUTOBODY084A - Introductory Auto Collision Repair - Units 6

This course is a theory and laboratory course offering in-depth training in sheet metal welding, metal straightening and finishing, and filling of metals.

AUTOBODY084B - Beginning Auto Collision Repair - Units 6

Prerequisites: AUTOBODY-084A Introductory Auto Collision Repair with a grade of "C" or better.

This course is designed to allow the student to work on more complicated types of automobile body damage to further refine basic metal working skills. The removing, repairing, and aligning of trim and upholstery panels are covered.

AUTOBODY084C - Intermediate Auto Collision Repair - Units 6

Prerequisites: AUTOBODY-084B Beginning Auto Collision Repair with a grade of "C" or better.

This course is designed to give the student instruction in basic unibody repair, fiberglass body repair, plastic parts repair, and roof panel replacement and repair. The student learns and performs the steps necessary to complete a full-car paint job.

AUTOBODY084D - Advanced Auto Collision Repair - Units 6

Prerequisites: AUTOBODY-084C Intermediate Auto Collision Repair with a grade of "C" or better.

This course is designed to advance the student to more complicated portions of unibody repair. The repair of suspension and steering systems are covered. The student performs assigned jobs which must be performed within time constraints imposed by employers.

AUTOBODY087C - Auto Body Specialization - Units 4

Prerequisites: AUTOBODY-088B Master Auto Body/Refinish Technician with a grade of "C" or better.

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

This course is designed for the advanced student in auto body. The student completes an advanced specialized project developed in consultation with the instructor.

AUTOBODY088A - Master Auto Body Technician - Units 4

Prerequisites: AUTOBODY-084D Advanced Auto Collision Repair with a grade of "C" or better.

This course is designed to expose the student to the fine details of automotive body repair and restoration. The student will gain valuable refined skills that will escalate his/her technical abilities to a higher level in turn creating a much more employable candidate.

AUTOBODY088B - Master Auto Body/Refinish Technician - Units 4

Prerequisites: AUTOBODY-088A Master Auto Body Technician with a grade of "C" or better.

This course is designed to expose the student to the fine details of automotive body repair/refinish and restoration. The student will gain valuable refined skills that will escalate his/her technical abilities to a higher level in turn creating a much more employable candidate.

AUTOBODY098V - Work Experience: Auto Body Technology - Units 1-4

Limitations on Enrollment: Internship: The student must enroll in a course in the discipline directly related to the internship. The student must enroll in a minimum of 7 units including internship units, during the semester. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID-030 GUID-031 GUID-032 GUID-033.

This course is designed for the student participating in an occupational work internship in auto body technology. This course is designed to emphasize the basic auto body safety standards. Course topics include elementary sheetmetal repair, auto body welding, metal finishing, plastic fillers, grinding, and shrinking. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor.

Auto Mechanics

AUTOMECH072 - Basic Brakes, Suspensions, Wheel Alignment, and Maintenance - Units 3

This course is designed to prepare the student to analyze, adjust, and repair basic automotive brake, suspension and steering systems and includes basic maintenance.

AUTOMECH073 - Basic Engine Performance and Electrical Systems - Units 3

This course is designed to prepare the student to analyze, adjust, and repair basic automotive electrical, ignition, and fuel management systems.

AUTOMECH074 - Basic Engines - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an introduction to the fundamentals of two-stroke and four-stroke engines in relationship to oils, lubrication, safety inspections, precision measurements, and related mathematics.

AUTOMECH075 - Selected Topics: Auto Mechanics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Auto Mechanics not already covered by the existing curriculum.

AUTOMECH087A - Automobile Mechanics Specialization - Units 3-4

Prerequisites: AUTOMECH-092 Brakes, Suspension, and Steering or AUTOMECH-093 Engine Rebuilding each with a grade of "C" or better.

This course is designed for the advanced student in automotive mechanics. The student completes an advanced specialized project developed in consultation with the instructor.

AUTOMECH087B - Auto Electrics Specialization - Units 3-4

Prerequisites: AUTOMECH-091, Starting, Charging, and Electrical Systems, with a grade of "C" or better.

This course is designed for the advanced student in automotive electrics. The student completes an advanced specialized project developed in consultation with the instructor.

AUTOMECH090A - Emission Control Training Level 1 - Units 4

Advisories: AUTOMECH 096A and AUTOMECH 096B both with a minimum grade of "C" or better.

This course is designed to meet the California State requirements for the Department of Consumer Affairs/Bureau of Automotive Repair Course. This course is required for the advanced level student or Journeyman level technician who wishes to become a Smog Check Test and Repair Technician. The student who enrolls in this course must meet the DCA/BAR prerequisite guidelines before entering the course in order to receive a level 1 Course certification. The course includes State rules and regulations for Smog Check, required equipment for testing and testing vehicles incorporated in the Smog Check program, manuals and software required for Smog Check Stations, common test procedures used on emission vehicles, testing vehicles that are equipped with On Board Diagnostic II (OBD II) compliant engine management system, and the safe use and practices of Emission Inspection System equipment.

AUTOMECH090B - Emissions Diagnosis and Repair - Units 1.5

Limitations on Enrollment: For those students who seek Level 2 certification, they must meet the California Department of Consumer Affairs/Bureau of Automotive Repair requirements prior to entry into the course or they must have Level 1

certification.

This course is designed to meet the California state requirements for the Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) Level 2 training course. This course is required for the advanced level student or journeyman level technician who wishes to become a Smog Check Test and Repair Technician. The student who enrolls in this course must meet the DCA/BAR prerequisite guidelines before entering the course in order to receive a Level 2 certification. This course includes state rules and regulations for Enhanced Area Smog Check; required equipment for testing and repairing vehicles incorporated in the Enhanced Area Smog Check program; baseline testing and common repair procedures used on enhanced area emission related vehicle failures; the safe use and practices of Emission Inspection system equipment, with special attention to safe vehicle/dynamometer testing practices.

AUTOMECH091 - Starting, Charging, and Electrical Systems - Units 6

Prerequisites: AUTOMECH-073, Basic Engine Performance and Electrical Systems, or DIESL-099, Computer Diagnosis and Troubleshooting, each with a grade of "C" or better.

Corequisites: AUTOMECH-073, Basic Engine Performance and Electrical Systems.

This course is designed to prepare the student to effectively diagnose and repair automotive starting, charging, and electrical systems.

AUTOMECH092 - Brakes, Suspension, and Steering - Units 6

Prerequisites: AUTOMECH-072 Basic Brakes, Suspensions, Wheel Alignment, and Maintenance with a grade of "C" or better.

This course is designed to prepare the student to analyze, adjust, service, and repair automotive brakes, suspension, and steering systems.

AUTOMECH093 - Engine Rebuilding - Units 6

Advisories: AUTOMECH 074 with a minimum grade of "C" or better.

This course is designed to prepare the student to analyze, adjust, service, and repair gasoline-powered automobile engines. The course includes precision machining operations and the complete rebuilding of an engine.

AUTOMECH094 - Manual Drivetrain and Axles - Units 5

Advisories: AUTOMECH 072 with a minimum grade of "C" or better.

This course is designed to prepare the student to analyze, service, and repair: differentials, standard transmissions and transaxles, front-wheel drive axles, drivelines, four-wheel drive systems, and clutch systems.

AUTOMECH095 - Air Conditioning, Heating, and Electrical Systems - Units 6

Prerequisites: AUTOMECH-073, Basic Engine Performance and Electrical Systems, with a grade of "C" or better.

Corequisites: AUTOMECH-073, Basic Engine Performance and Electrical Systems.

The course is designed to prepare the student to diagnose and repair air conditioning, heating and specialized electrical accessories systems.

AUTOMECH096A - Fuel Management and Computer Controls - Units 6

Prerequisites: AUTOMECH-073, Basic Engine Performance and Electrical Systems, with a grade of "C" or better.

Corequisites: AUTOMECH-073, Basic Engine Performance

and Electrical Systems.

This course is designed to prepare the student to troubleshoot and diagnose automotive fuel-injection systems, engine computer systems, emission systems, and some carburetion systems. The student completing the requirements of AUTOMECH 096A, Ignition Systems and Electronic Engine Controls, and AUTOMECH 096B, Fuel Management and Computer Controls, is eligible to test to receive certification for the approved Clean Air Car course from the State of California Bureau of Automotive Repair.

AUTOMECH096B - Ignition Systems and Electronic Engine Controls - Units 6

Advisories: AUTOMECH 073 with a minimum grade of "C" or better.

This course is designed to prepare the student to diagnose and repair automotive engine performance problems and driveability malfunction-related failures. The student completing the requirements of AUTO 096A, Ignition Systems and Electronic Engine Controls, and AUTO 096B, Fuel Management and Computer Controls, is eligible to test to receive certification for the approved Clean Air Car course from the State of California Bureau of Automotive Repair.

AUTOMECH097 - Automatic Transmissions and Transaxles - Units 6

Prerequisites: AUTOMECH 072 or AUTOMECH 073 with a minimum grade of "C" or better.

Corequisites: AUTOMECH 072 or AUTOMECH 073.

Advisories: AUTOMECH 091 with a minimum grade of "C" or better.

This course is designed to prepare the student to analyze, adjust, service, and repair automatic transmissions and transaxles on foreign and domestic automobiles.

AUTOMECH098V - Work Experience: Auto Mechanics - Units 1-4

Limitations on Enrollment: The student must enroll in a course that is directly related to the auto mechanics work experience. The student must be officially enrolled in a Delta College course during the participating semester. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 GUID-031 GUID-032 GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational work experience in auto mechanics. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a work-site supervisor and a college work experience professor.

Automotive Technology

AUTO 075 - Selected Topics: Automotive Technology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of automotive technology not already covered by existing curriculum.

Biology

BIOL 001 - Core Biology - Units 4

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, and CHEM 003A, Introduction to Chemistry, each with a grade of "C" or better.

This course presents cell and molecular biology, and fundamental evolutionary processes, for students who intend to earn a bachelor's degree in biology or biochemistry. Lecture 3 hours, laboratory 3 hours. (UC, CSU)

BIOL 002 - General Zoology - Units 5

Prerequisites: BIOL-001 Core Biology with a grade of "C" or better.

This course is intended for majors, and includes a survey of animal phyla and non-photosynthetic, single-celled, eukaryotic taxa. It covers the comparative structure, function, and life cycles of animals, as well as principles of evolution, taxonomy, and systematics. Topics include development, morphology and physiology, phylogeny, and behavior of animals, as well as principles of evolution, mechanisms of evolutionary change, and speciation. (UC, CSU, C-ID BIOL 150)

BIOL 003 - General Botany - Units 4

Prerequisites: BIOL-001 Core Biology with a grade of "C" or better.

This course is a study of the life and activities of plants followed by an introduction to plant physiology, plant structure, plant genetics, plant ecology, plant evolution, and a general survey of the major plant groups. A Survey of diversity is extended to both the Fungi and the Protista Kingdoms. Lastly an ecology unit is studied that investigates the ecological principles of ecosystems, communities, and of populations. The course is for the pre-professional student in the biological sciences and is fundamental for the student planning to specialize in forestry, horticulture, agriculture, food processing, pharmacy, and other subjects requiring a scientific knowledge of plant life. Field trips are included. This course meets the CSU general education laboratory science requirement and IGETC requirements. (UC, CSU)

BIOL 010 - Survey of Biology - Units 4

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to biology for non-majors. Biology includes all aspects of the scientific study of life. In this course, the structure, function, and behavior of organisms are studied at the molecular, cellular, organismal, and environmental levels within an evolutionary conceptual framework. On and off-campus field work is required. The course meets the CSU general education laboratory science requirement and IGETC requirements. (UC, CSU)

BIOL 011 - Humans in the Biological World - Units 4

Prerequisite Skills: 1. Prerequisite Skills: Reading level II.

Advisories: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, with a minimum grade of "C"; CHEM 003A, Introduction to Chemistry, with a minimum grade of "C".

This course will introduce the student to processes and knowledge for all of Biology, by comparing and contrasting humans and other organisms in terms of evolution, the creation and maintenance of homeostasis, and roles played in ecosystems. All major subjects in Biology will be covered, including cell and molecular biology; fundamental anatomy and physiology; and evolution and ecology. The course meets the California State University (CSU) general education laboratory

science requirement and Intersegmental General Education Transfer Curriculum (IGETC) requirements. (UC, CSU)

BIOL 012 - Natural History of California - Units 3

Prerequisite Skills: 1. Reading level II.

This course is an introduction to the plants and animals of California with emphasis on the plant communities and wildlife of the Central Valley, the coast ranges, and the Sierra Nevada. Ecologically oriented, the course probes ways in which plants and animals are adapted to their environment. Present and historical human environmental relationships will be investigated as well. A field trip is required. (CSU)

BIOL 015 - Selected Topics: Biology - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of biology not already covered by the existing curriculum. (CSU)

BIOL 022 - Introduction to Medical Microbiology - Units 4

Prerequisites: CHEM-003A Introduction to Chemistry with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

Advisories: BIOL-001 with a grade of "C" or better.

This course is a study of microorganisms with the main emphasis on bacteria and the disease process. Laboratory work includes cultural, morphological, growth requirements and biochemical characteristics of microorganisms. Basic laboratory skills of the microbiologist are emphasized. The course is recommended for the student planning to enroll in the SJDC Nursing Program. The student who plans to transfer to a college or university, which requires a 5 unit course in bacteriology or microbiology, is advised to enroll in BIOL 023. (CSU)

BIOL 023 - General Microbiology - Units 5

Prerequisites: CHEM-003A Introduction to Chemistry with a grade of "C" or better.

Prerequisite Skills: 1. Reading level II.

Advisories: BIOL-001 with a grade of "C" or better.

This course is the study of the nature and activities of microorganisms and their relationships to human life and human interest. The laboratory activities include bacteriology and mycological techniques, demonstration of physiological activities, isolation, and identification of microorganisms, a student designed independent experiment and may include field trips to demonstrate practical applications. This course meets introductory requirements for majors in microbiology and for other students requiring knowledge of microbiology. (UC, CSU)

BIOL 030 - Human Sexuality - Units 3

Prerequisite Skills: 1. Reading level II.

This course is an introduction to human sexuality. It covers the biological, psychological, social, cultural, and historical aspects of human sexuality. Students would be engaged in discussions regarding social and psychological issues of fertility, pregnancy and childbirth, different methods of birth control, sexually transmitted diseases, sexual behavior, homosexuality and bisexuality and intercourse. Students would evaluate their own sexual behavior, and attitudes. This course is academic rather than therapeutic. (UC, CSU)

BIOL 031 - Human Anatomy - Units 4

Prerequisite Skills: 1. Reading Level II.

Advisories: BIOL 011, Humans in the Biological World, with a minimum grade of "C"; ENG-079, Preparatory English, with a minimum grade of "C" or Composition Level III; MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, with a minimum grade of "C"

or minimum level 5 on the of the human body: gross and microscopic structure of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems, from cellular to organ system levels of organization.

This course is primarily intended for nursing, allied health, kinesiology, and other health related majors. This course covers structure of the human body at the cell, tissue, organ, and system level. A systems approach is taken with microscopy and gross anatomy of all systems. Emphasis is placed on structure-function relationships. This is a majors level course with designed rigor. The laboratory includes study of microscopic specimens, organ and organism dissection, and models. (UC, CSU, C-ID BIOL 110B).

BIOL 032 - Human Physiology - Units 5

Prerequisites: BIOL-031 Human Anatomy or BIOL-033 Anatomy & Physiology or BIOL-001 Core Biology or BIOL-011 Humans in the Biological World and CHEM-003A Introduction to Chemistry or CHEM-001A General Chemistry each with a grade of "C" or better.

Advisories: ENG-079 or Composition Level III.

MATH-082 each with a grade of "C" or better minimum level of 5 on the Math Placement Test. This course is a study of the physiological principles, function, integration and homeostasis of the human body at the cellular, tissue, organ, organ system and organism level: integumentary system, bone, skeletal, smooth and cardiac muscles, nervous system, sensory organs, cardiovascular system, lymphatic and immune systems, respiratory system, urinary system, digestive system, endocrine system, and reproductive system. This course is primarily intended for Nursing, Allied Health, Kinesiology, and other health related majors. (UC, CSU, C-ID BIOL 120B)

BIOL 033 - Anatomy & Physiology - Units 6

Prerequisites: CHEM-003A Introduction to Chemistry or High School Equivalent with a grade of "C" or better or CHEM-001A General Chemistry with a grade of "C" or better.

This course is a study of the anatomical and physiological relationship of the parts of the human body which may include some work with live animals and human non-invasive preparations. The course is not designed specifically for the baccalaureate program. (UC, CSU)

BIOL 050H - Special Studies: Biology - Units 1-2

Prerequisites: BIOL-001 Core Biology and BIOL-002 General Zoology and BIOL-003 General Botany or BIOL-023 General Microbiology each with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division chairperson.

This course is designed to allow a qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

BIOL 055 - Introduction to Human Genetics - Units 3

Prerequisites: BIOL-001 Core Biology or BIOL-011 Humans in the Biological World MATH-080 Elementary Algebra each with a grade of "C" or better or a minimum of assessment level 4 on the Math Placement Test.

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to basic Biological concepts in Genetics. The course will cover topics in genetic inheritance, deoxyribose nucleic acid (DNA) and chromosomes, population genetics, genetics of cancer, Genetic Biotechnology and current topics like animal cloning or stem cell research. (UC, CSU)

BIOL 075 - Selected Topics: Biology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Biology not already covered by the existing curriculum.

Business Administration**BUS 001A - Principles of Accounting - Units 5**

Prerequisite Skills: 1. Reading level II.

This course is a study of basic accounting principles and procedures relating to proprietorships and partnerships. The accounting procedures for the entire accounting cycle are studied. Generally accepted accounting principles relating to cash, short-term investments, receivables, inventories, plant assets, depreciation, payables, internal control and payroll are included. (UC, CSU)

BUS 001B - Principles of Accounting - Units 5

Prerequisites: BUS-001A Principles of Accounting with a grade of "C" or better.

This course is a continuation of the study of generally accepted accounting principles applied in a corporate environment. The course examines the corporation topics of equity and debt financing, investments in stock and debt, the statement of cash flows, and the analysis of financial statements. The course introduces the managerial accounting topics of cost accounting, including job order and process cost systems, budgeting and standard costs. (UC, CSU)

BUS 003 - Financial Accounting - Units 5

Prerequisites: BUS-001A Principles of Accounting with a grade of "C" or better.

This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. (CSU, UC, C-ID ACCT 110)

BUS 004 - Managerial Accounting - Units 5

Prerequisites: BUS-001B Principles of Accounting or BUS-003 Financial Accounting each with a grade of "C" or better.

This course is an introduction to the application of accounting concepts and systems to provide information for management decision making, control, profit planning, cost analysis, budgeting, and performance evaluation. (UC, CSU, C-ID ACCT 120)

BUS 006 - Business and Professional Communication - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is designed as an overview of business and professional communication in various settings including day-to-day interactions, group discussions, written documents, formal presentations, and job interviewing. Practical application of skills for effective business and professional communication is emphasized, including the development of self-confidence and ease in the workplace. (CSU)

BUS 007 - Business Communications - Units 3

Prerequisites: ENG-001A, Reading and Composition, with a grade of "C" or better or Composition Level III.

This course applies the principles of ethical and effective communication to the creation of letters, memos, emails, and

written and oral reports for a variety of business situations. The course emphasizes planning, organizing, composing, and revising business documents using word processing software for written documents and presentation-graphics software to create and deliver professional-level oral reports. This course is designed for students who already have college-level writing skills. This course replaces the former BUS 017B. (CSU)

BUS 008 - Introduction to The American Legal System - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to American law and its relationship to society. Topics include the nature and structure of the legal system, crimes, torts, contracts, administrative law, family law, employment law, and laws governing businesses, real and personal property law, and estates. This course is not intended to replace BUS 18A, 18B (Business Law), or BUS 19 (Legal Environment of Business) for business majors or minors. (UC, CSU)

BUS 009 - Ethical Issues in Business - Units 3

Advisories: Reading level II.

This course is a study of the ethical issues which face businesses in the United States and in the international marketplace. Emphasis is placed upon applying ethics to current business problems in areas such as accounting, management, marketing, computer systems, finance, and real estate. (CSU)

BUS 010A - Bookkeeping - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introductory study of bookkeeping procedures relating to sole proprietorship companies. The student learns and applies procedures for the entire accounting cycle to both a service and merchandising firm. (CSU)

BUS 011 - Income Tax Procedures - Units 4

This course covers federal and California individual income tax preparation and planning. Topics include filing status, exemptions, income and exclusions, business expenses, itemized deductions, credits, capital gains, depreciation, tax payments, California tax, IRS and FTB, and audits. (CSU)

BUS 015 - Excel Spreadsheets - Units 3

This course is designed to take the student's level of Microsoft Excel proficiency from basic to advanced. Focus is placed on business, accounting, and personal-use features of Excel. The student will construct formulas to perform accounting functions used in budgets, payroll, bookkeeping, and other financial tracking statements. The student will gain hands-on experience with presenting the data in visually appealing formats, including creating tables, charts, and additional graphical layouts and functions. (CSU)

BUS 017 - Business English - Units 3

This course is designed to provide the student with writing skills to communicate effectively in a business environment. The student writes traditional business communication such as memorandums, letters, and reports, and is introduced to various electronic methods of business communication including e-mails, Websites, blogs, and other social networking media used in business communication. Focus is placed on sentence structure, grammar, punctuation, and vocabulary to produce effective business messages. (CSU)

BUS 018A - Business Law - Units 3

Advisories: Reading level II.

This course is a basic course in law and its relationship to business. Topics include a study of concepts and cases involving

the legal system, dispute resolution, torts, contracts, and other areas of commercial law. (UC, CSU)

BUS 018B - Business Law - Units 3

Advisories: BUS-018A with a grade of "C" or better.

This course is a continuation of the study of legal principles affecting business with emphasis upon partnerships, corporations, sales, commercial paper, creditors' rights, bankruptcy, insurance, real and personal property, estates and trusts, consumer protection, and international law. (UC, CSU)

BUS 019 - Legal Environment of Business - Units 3

Fundamental legal principles pertaining to business transactions. Introduction to the law as an instrument of social and political control in society. Topics include sources of law and ethics, contracts, torts, agency, judicial and administrative processes, employment law, forms of business organizations, and domestic and international governmental regulations. (CSU, C-ID BUS 120)

BUS 020 - Introduction to Business - Units 3

Prerequisite Skills: 1. Reading level II.

This course is designed to build an understanding of the market economy, the business environment, other economic systems, and the organization, management, and operation of business enterprises. The course includes such topics as understanding the economy, how businesses are formed and managed, human relations, producing and marketing a product or service, the financial markets and securities, governmental relationships, understanding the financial media, and other similar areas. The course is a foundation for the business student. (UC, CSU, C-ID BUS 110)

BUS 021 - Marketing - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to the field of marketing. The course provides a background for more specialized study in fields of advertising, selling, and retailing. Topics include: the marketing concept; market segmentation; consumer and organizational buying behavior; channels of distribution; personal selling; pricing; and the use of new technologies. (CSU)

BUS 022 - Professional Selling - Units 3

This course is an introductory course in sales designed to assist the student to: develop a professional attitude toward selling and a better understanding of self; learn how to sell self before selling a product, service, or idea; learn the principles and rules of persuasion; begin to understand customers and their actions; and develop the techniques of selling and persuasion. (CSU)

BUS 023 - Advertising - Units 3

This course is an introduction to advertising principles and techniques. The course includes the theory and role of advertising in our global economic system. The course includes principles of layout and copy, advertising production, and media selection. The course also focuses on integrated marketing communications and advertising using social media. (CSU)

BUS 024 - Retail Management - Units 3

Advisories: BUS-020 with a grade of "C" or better and.

This course is designed to focus on retail store operations with an emphasis on consumer behavior, store location and layout, merchandising, pricing, retail promotion and advertising, human resource management, and legal and ethical issues. This course will also cover developments in globalization, multi-channel retailing, and the use of the Internet to improve operating efficiencies and customer service (CSU)

BUS 026 - Economics of Business - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an introductory course in economics. The course includes a study of the United States economic system, other economic systems, resource allocation, factors of production, competition, labor, government and economic policy, the private sector, monetary policy, and supply and demand. (UC, CSU)

BUS 028 - Entrepreneurial Mindset - Units 3

A study of the process that enables students with limited resources to transform a simple idea into a sustainable success. Students will learn how to apply fundamental aspects of entrepreneurial thinking across disciplines. Students will develop an "entrepreneurial mindset"- the underlying beliefs and assumptions that drive the behaviors that allow entrepreneurs to succeed. (CSU)

BUS 029 - Introduction to Entrepreneurship - Units 3

The student will evaluate the business skills and commitment necessary to successfully operate an entrepreneurial venture and review the challenges and rewards of entrepreneurship. The student will understand the role of entrepreneurial businesses in the United States and the impact on our national and global economy. (CSU)

BUS 030 - Supervision and Human Relations - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an introduction to supervision within an organizational framework. The course includes the study of human perception, communication, motivation, leadership techniques, management styles, work planning, and performance appraisal. (CSU)

BUS 031 - Introduction to Management - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an introduction to the principles of good management and the effective utilization of human and material resources to achieve the objectives of an enterprise. The course emphasizes the planning, organizing, staffing, directing, and controlling functions of management. The course also includes effective communication, motivation, and managing for change. (CSU)

BUS 033 - Introduction to Public Administration - Units 3

This course is an introduction to the study of principles and challenges in public administration. Topics include: the political environment, personnel public policy, governmental regulations, strategic management, labor relations, public financial management accountability, and ethics. (CSU)

BUS 034 - Introduction to Municipal Clerkship - Units 3

This course is an introduction to practices, policies, and regulations of a municipal government as they relate to the duties of a municipal clerk. Topics include: public relations, organization, administration, legislative procedures, meeting preparation and minutes, election planning and procedures, land use issues, licenses and permits, projects and capital improvements, contract and deeds processing, and an overview of records management. (CSU)

BUS 036 - Human Resources Management - Units 3

This course is an introduction to the study and analysis of personnel and human resource management. It covers essential topics such as managing human resources in a globalized environment, employee retention, training, evaluation and compensation, and labor laws. This course provides an overview that is helpful for selecting a specific career in the field of business

or management. Developing the job descriptions, defining job qualifications, interviewing skills and human behavioral factors related to business and industry are included in this course. (CSU)

BUS 037 - Human Behavior in Organizations - Units 3

This course is an introduction to the analysis of individual behavioral characteristics within organizations and management teams. Information provided enables the student to determine a course of action to influence attitudes, perceptions and/or behaviors of an individual or groups. Topics include individual motivations and group dynamics, conflict sources and resolution techniques, leadership skills and styles, decision making processes, and task delegation methods. Organizational concepts of communication and information processing, goal setting, control processes and management by objectives are related to the enhancement of organizational productivity. (CSU)

BUS 038 - Selected Topics: Business - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Business not already covered by the existing curriculum. (CSU)

BUS 040 - Real Estate Principles - Units 3

This course is an introduction to principles of California real estate, including an introduction to property rights, legal descriptions, encumbrances, agency, contracts, transfers, finance, lenders, appraisal, escrow, government's role and regulations, taxation, and licensing requirements. The course is designed to meet the needs of both a general student and the individual desiring employment in the field or related areas. The course is applicable toward a requirement for state licensure as a salesperson, broker, or real estate appraiser. (CSU)

BUS 041 - Real Estate Practice - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

Advisories: BUS-040.

This course is an introduction to the practices and techniques of a real estate broker and salesperson. Topics include: developing a market analysis, listing property for sale or lease, sales procedures, financing, closing costs, escrow routine, advertising, managing the real estate office, public relations, and professional ethics. This course is applicable toward a requirement for state licensure as a salesperson or broker. (CSU)

BUS 042 - Real Estate Finance - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

Advisories: BUS-040.

This course is an introduction to current financial practices and legislation related to real property transactions. The course includes regulations, principles, practices, and terminology of financing real estate property. The course is designed to assist the student in the banking, savings and loan, real estate, and legal fields to understand and apply these regulations and computations. The course is applicable toward a requirement for state licensure as a real estate salesperson or broker. (CSU)

BUS 043 - Legal Aspects of Real Estate - Units 3

Advisories: BUS-040.

This course is an introduction to California real estate law. Topics include contracts, land titles, agency, acquisition and conveyance, security devices, liens, financing, foreclosure, land use and regulation, probate, and owner-tenant issues. The course is applicable toward a requirement for state licensure as a real estate salesperson or broker. (CSU)

BUS 045 - Real Estate Economics - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

Advisories: BUS-040 with a grade of "C" or better.

This course is an introduction to economic principles related to real estate markets and land use. The course is recommended for the individual planning to appraise real property. Topics include: factors that influence prices, money and credit, land utilization, land use planning and controls, impact of taxation, regional and community development, and required government reports. The course is applicable toward a requirement for state licensure in real estate sales or brokerage. (CSU)

BUS 046 - Property Management - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

This course is a basic, but comprehensive, course in the management and operation of income properties, such as a residential, office, shopping center, and condominium. The course includes the background and fundamentals of the investment, property selection and evaluation, lease performance objectives, maintenance, administration and management, California landlord/tenant law, the role of the manager and property management as a profession, and owner/tenant relations. The course is applicable toward a requirement for state licensure as a real estate salesperson, broker, or real estate appraiser. (CSU)

BUS 050H - Special Studies: Multidisciplinary - Units 1-3

Prerequisites: BUS-001A Principles of Accounting or BUS-020 Introduction to Business or BIM-002 Advanced Keyboarding: Document Formatting or BUS-040 Real Estate Principles or BUS-051 Introduction to Transportation or BUS-056 Transportation: Export and Import or BUS-057 Logistics Management or BUS-061 Principles and Operations of Financial Institutions or BUS-063 Analysis of Financial Statements or BUS-066 Principles of Money and Banking each with a grade of "C" or better and.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division chairperson.

This course is a special studies course open to the student qualified to do advanced work in the fields of accounting, business, business information management, real estate, labor relations, law, banking, or finance. The course includes research, directed reading, field work, or other advanced study. (CSU)

BUS 051 - Introduction to Transportation - Units 1.5

This course is an introduction to the field of transportation. The course includes the role and regulation of domestic transportation, basic modes of transportation, governmental influences on transportation, traffic management and control decisions, and intrastate transportation considerations. (CSU)

BUS 052 - Supply Chain Logistics & Operations - Units 3

Advisories: Reading level II and BUS-057 with a grade of "C" or better.

This course presents the challenges and dynamics of Supply Chain Operations. This class focuses on the flow of products throughout the supply chain from forecasting and purchasing of materials through distribution of the final product. Several companies and industries will be studied with particular emphasis on companies and industries in California's Central Valley. This course will also focus on relevant technologies beyond standard pick and pull techniques to include Enterprise Resource Planning Systems (ERP), Warehouse Management Systems (WMS), and modern employment of Radio Frequency Identification systems (RFID). (CSU)

BUS 055 - International Business - Units 3

This course is a comprehensive overview of international business designed to provide a global perspective on international trade, including foreign investments, impact of financial markets, international marketing, and the operation of multinational companies. (CSU)

BUS 056 - Transportation: Export and Import - Units 3

This course is an introduction to the field of export and import of goods across international boundaries. The course includes: freight forwarding involving export and import of goods across international boundaries, governmental regulations, terminal and port charges, required documents, insurance, foreign banking, customs procedures, and warehousing. (CSU)

BUS 057 - Introduction to Logistics - Units 3

This course is an introduction to logistics. Logistics is the process of planning, implementing and controlling the efficient flow of materials from suppliers to the ultimate customer. Students will be introduced to and learn the importance of major logistics functions including material receipt, handling and storage; purchasing; inbound and outbound logistics operations, physical distribution, and logistics information technology systems. The course will acquaint the student with introductory facets of supply chain management within the logistical channel.

BUS 060 - Small Business Management - Units 3

This course is an introduction to small business and its role in the American free enterprise system. The focus is on basic business principles, practices and procedures to effectively operate a small business. Topics include starting a business, financing, the legal structure, as well as other management principles applicable to small business owners. (CSU)

BUS 063 - Analysis of Financial Statements - Units 3

This course is an introduction to financial statements. Included are the study and analysis of balance sheets, earnings statements, capital statements, and various other commonly used reports. Key ratios and techniques are used to analyze projections and relationships of various types of data. (CSU)

BUS 067 - Introduction to Personal Finance - Units 3

This course is an introduction to planning and managing personal finances. The course emphasizes applying theories to real world situations such as financial statements, money management and tax strategies, sources of credit and banking services, consumer purchasing strategies, risk and insurance analysis, health care and disability considerations, investment instruments and alternatives, and retirement and estate planning. (CSU)

BUS 070 - Payroll Accounting - Units 2

Advisories: BUS-010A with a grade of "C" or better.

This course is an introductory study of payroll accounting. The personnel and payroll records provide information required under the numerous laws affecting the operations of a payroll system. There is an emphasis on the payroll-record life of each employee from the initial application for employment to the application for the first social security benefit check.

BUS 076 - Selected Topics: Business - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of business administration not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

BUS 080 - Bookkeeping - Units 3

Advisories: BUS-010A with a grade of "C" or better.

This course is a review and continuation of the study of accrual accounting. The course includes notes and interest, depreciation, merchandise accounting, inventory valuation methods, and accounting for partnerships and corporations. BUS 80 cannot be taken after successful completion of Principles of Accounting (BUS 1A or 1B).

BUS 081 - California Income Tax Preparation - Units 1

Advisories: BUS-011 Concurrent enrollment.

This course is designed to make the student aware of the latest tax laws in order to properly complete California income tax returns.

BUS 083A - Communication in the Workplace - Units 0.5

This course is designed to introduce participants to key elements of communication in the workplace. Topics include verbal and nonverbal communication as well listening skills.

BUS 083B - Customer Service Techniques - Units 0.5

This course is designed to explore key skills and attitudes necessary to effectively meet the customer's needs in the workplace. Participants will be introduced to concepts and appropriate techniques for dealing with internal and external customers, enhancing customer satisfaction, and insuring positive communication.

BUS 083C - Team Building for the Workplace - Units 0.5

This course is designed to provide the student with an understanding of how teams work together, common problems teams encounter, and how to solve them in the workplace. Students will learn to recognize various personalities and how their strengths and weaknesses impact a team. Students will be introduced to team building in the workplace.

BUS 083D - Attitude in the Workplace - Units 0.5

This course is designed to provide students with certain key skills in the area of attitude so that they may effectively maintain a positive attitude in the workplace. Students will be introduced to the concepts of how attitudes are communicated and how to adjust one's attitude.

BUS 083E - Values and Ethics in the Workplace - Units 0.5

This course is designed to acquaint the participant with the importance of values and ethics in the workplace. Emphasis will be placed on how values influence actions, evaluating ones ethical behavior, and helping people do the right thing in the workplace.

BUS 083F - Time Management for the Workplace - Units 0.5

This course is designed to introduce the student to time management principles for the workplace and specific tools that assist in making maximum use of time. Emphasis will be placed on how to prioritize, identifying time wasters, and goal setting.

BUS 083G - Stress Management for the Workplace - Units 0.5

This course is designed to acquaint the participant with key elements of stress management for the workplace. Topics will include the recognition of stress, causes of stress, and the benefits of stress management. Various stress management techniques will be covered.

BUS 083H - Conflict Management for the Workplace - Units 0.5

This course is designed to introduce participants to the meaning of conflict, the causes of conflict, and strategies for resolving

interpersonal conflict in the workplace as well as dealing with difficult customers.

BUS 083I - Decision Making and Problem Solving for the Workplace - Units 0.5

This course is designed to introduce the student to decision making and problem solving techniques including brainstorming, creativity in the workplace, how to find new perspectives, and seeking alternatives.

BUS 083J - Managing Organizational Change for the Workplace - Units 0.5

This course is designed to provide the participant with an understanding of change and the influence it has on an organization and the individuals in that organization. Topics will include understanding organizational change, stages of change, and how to manage organizational change.

BUS 089 - QuickBooks - Units 2

Advisories: BUS-010A with a grade of "C" or better.

This course is designed to introduce computerized accounting using QuickBooks. The student manipulates software features to accomplish accounting cycle tasks pertaining to a service business and a merchandising business. Tasks include recording transactions, preparing reports, closing an accounting period, compiling charts and graphs, creating a company, and preparing the payroll.

BUS 094A - Small Business Start Up - Units 1

This course is designed especially for the individual wanting to start his or her own business. The course emphasizes the need for planning and the financial considerations needed prior to opening a business. The course guides the student through the preliminary process of creating a business plan. In addition, course topics include choosing the legal structure of the business, business financing, location, and franchising.

BUS 094B - Essential Topics for Small Business - Units 1

This course is designed for an individual who currently owns, or would like to own his or her own business. Course topics include market research, the need for a marketing plan, image development, and advertising. Local licensing and zoning laws are discussed. The student learns how to write and present the final draft of the business plan to potential lenders and investors.

BUS 094C - The New Entrepreneur - Units 1

This course is designed for an individual who currently owns, or would like to own his or her own business. The course introduces the importance of designing or choosing an adequate record keeping system. Other topics include cash control, budgeting, cash flow, break-even analysis, and the records needed for tax reporting. Insurance and potential risks, as well as crime prevention, e-commerce, ethical business practices and basic management principles, are discussed.

BUS 094D - The Law and the Small Business - Units 1

This course is designed to describe and interpret the basic laws governing business and commercial relationships relating to small business. Topics include legal information regarding sole proprietorship, partnership, limited partnership, corporation, and joint venture. The course also focuses on contracts, employment law, copyrights, patents, trademarks, and other legal considerations.

BUS 094E - Marketing and Advertising Strategies for Small Business - Units 1

This course is designed to identify ideas, methods, and techniques to market small businesses effectively and successfully. Topics include image-building, marketing strategies, public relations, direct marketing, direct mail, low-cost advertising, media placement, basic marketing plans, and advertising budgets. E-marketing and the use of social media are also covered.

BUS 094F - Customer Service Strategies - Units 1

This course is designed to teach the business owners in any industry how to implement user-friendly and results-oriented customer service systems. Topics include how to satisfy the customer, the importance of customer service, how to measure customer satisfaction in the use of questionnaires and surveys, and how to set up customer service systems. The course also focuses on customer service as a marketing tool.

BUS 098V - Work Experience: Business, Accounting, & Business Information Man - Units 1-4

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

This course is designed for the student employed in a business, banking, transportation, real estate, accounting, and business information management related positions. The course objectives are developed in consultation with a work supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervisor and the college work experience instructor. Credit may be accrued at the rate of one to 4 units per semester for a total of sixteen units. Additionally, students must work 75 paid hours or 60 non-paid hours per unit earned. To register, complete an application form available at the Applied Science, Business and Technology Division office, Holt 140.

Business Information Management

BIM 001A - Beginning Keyboarding - Units 1

This course is an introduction to touch keyboarding skill on a personal computer for alphabetic, numeric, and symbol keys. The student learns proper fingering and technique to establish threshold speed and accuracy. The student also manipulates a computer application program to input information.(CSU)

BIM 001B - Intermediate Keyboarding and Document Processing - Units 2

Advisories: BIM-001A with a grade of "C" or better.

This course is designed to introduce the keyboard-proficient student to features of word processing software for processing documents. Sample documents include research papers, general reports, correspondence for business and personal use, and tables. The course further develops the student's touch keyboarding skills acquired in a beginning course. (CSU)

BIM 015 - Selected Topics: Business Information Management - Units 0.5-4

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

BIM 038 - Office Technologies and Procedures - Units 3

This course focuses on the integration of office technologies and business skills for the office professional. Students in the course learn to work with the Internet, search engines, e-mail, and office applications used in electronic scheduling, presentations, word processing, and desktop publishing. Students also gain hands-on experience with office equipment such as reprographics, Webcams, and other office technologies used in today's electronic workplace. The course integrates administrative skills, written communication, and technology proficiency required to take the user into the 21st century workplace. (CSU)

BIM 039 - Office Management - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed to introduce basic principles of office administration and management. The course covers organizational principles, problem-solving techniques, hiring and selecting employees, as well as developing and motivating office employees. (CSU)

BIM 043 - Records Management in Public Agencies - Units 3

This course is an introduction to the management of public and other records in public agencies. Topics include: records management systems, records inventory, records classification, imaging technology, retention, storage, retrieval and transfer, archival methods, electronic records systems and computer based records management systems in the public sector. (CSU)

BIM 076 - Selected Topics: Business Information Management - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of business information management not already covered by the existing curriculum.

BIM 079 - Introduction to Microsoft Outlook - Units 2

This course is an introduction to Microsoft Outlook. This software program is part of the Microsoft Office suite. Topics include setting up and using Outlook as an e-mail system, organizing contacts, maintaining the Outlook calendar, corresponding using Outlook e-mail, and recording tasks and writing notes. An introduction to integrating, customizing, and sharing outlook files will also be covered.

BIM 080 - MS Access: Concepts and Applications - Units 3

Advisories: CSA-071 with a grade of "C" or better.

This course is a comprehensive study of Microsoft Office Access, a software application program used to create and manage a computerized database, from the office end-users' perspective. Students apply fundamental database concepts to create databases, tables, and forms. Data is entered and edited to build records that can be sorted, modified, queried, and reports generated.

BIM 081 - Records Management and Filing - Units 3

Advisories: CSA-020 with a grade of "C" or better or concurrent enrollment in CSA 020.

This course is designed to build an understanding of the basic principles and procedures for manual and electronic records storage and control. Specific rules compatible with the Association of Records Managers and Administrators (ARMA)

guidelines for alphabetic indexing are studied, then applied to alphabetic, geographic, subject, and numeric methods of records storage. Management aspects of records control; evaluation of records storage practices; requisition/charge-out and transfer procedures; and legal and ethical issues in the records management field are studied.

Caterpillar: Apprenticeship**CAT 069V - Internship: Heavy Equipment-Caterpillar - Units 1-4**

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed for the student participating in an occupational internship in Heavy Equipment-Caterpillar. Application of discipline-related skills and knowledge of the Secretaries' Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

CAT 080 - Caterpillar Service Industry - Units 3

Limitations on Enrollment: Admission to the Associate Degree Caterpillar Technician Program Indentured Apprenticeship.

This course is designed to introduce the student to the Caterpillar organization, basic shop safety, shop equipment, and shop operation.

CAT 081 - Caterpillar Engine Fundamentals - Units 4

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to introduce the student to basic diesel engine theory and service procedures. Caterpillar engine systems and applications are studied. Several Caterpillar engines are presented with emphasis on the Caterpillar 3406 diesel engine due to its high field population.

CAT 082 - Fundamentals of Hydraulics - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program. Indentured Apprenticeship.

This course is a practical study of the basic principles and components of hydraulic circuits and the application of these principles to Caterpillar agricultural and construction equipment. Major emphasis is on developing the student's competencies in the areas of servicing and maintaining hydraulic equipment.

CAT 083 - Caterpillar Engine Fuel Systems - Units 3

Limitations on Enrollment: Admission into Associate Degree Caterpillar Technician Program.

This course is designed to introduce the student to the various fuel systems used on Caterpillar engines. The student will become familiar with fuel selection, fuel system calibrations, nozzle testing, governor operation, and hydraulic fuel ratio controls.

CAT 084 - Fundamentals of Electrical Systems - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to introduce the student to basic electrical and electronic fundamentals needed by a technician to properly diagnose and repair the complex electrical systems installed in Caterpillar machines.

CAT 085 - Caterpillar Air Conditioning - Units 2

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program Indentured

Apprenticeship.

This course is designed to provide an introduction into the basic theory and principles of air conditioning as they relate to Caterpillar equipment. Use of equipment to diagnose and repair malfunctions, including repair of component parts and the charging and recharging of systems is stressed in the laboratory.

CAT 086 - Fundamentals of Caterpillar Power Trains - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed as a study of the various transmissions and differentials used in Caterpillar equipment including: constant mesh, sliding gear, hydrostatic synchromesh, and power shift transmissions involving planetaries.

CAT 087 - Caterpillar Machine Hydraulic Systems - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed for inspecting, testing, servicing, and diagnosing Caterpillar hydraulic systems and components.

CAT 090 - Caterpillar Undercarriage and Final Drive - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to identify the methods of transferring power from the engine through the drivetrain components. The course discusses differentials, brakes, tires, final drives, chain drives and undercarriage.

CAT 091 - Caterpillar Machine Electronic Systems - Units 3

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to provide the background needed to diagnose and repair sophisticated electronics and computerized circuits found on Caterpillar equipment and engines. Basic electronic concepts, component function, and system operation are covered. The student uses Caterpillar procedures to identify malfunctions and to test the systems properly.

CAT 092 - Caterpillar Engine Performance - Units 2

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to provide a thorough understanding of the necessary diagnostic skills required for troubleshooting Caterpillar engines and fuel systems. Emphasis is placed upon knowledge and skills necessary to assure product reliability and performance.

CAT 093 - Caterpillar Diagnostic Testing - Units 2

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is an in-depth study of engine diagnostics and repair techniques. The course includes on-iron activities diagnosing and correcting engine problems. The student learns proper selection and use of Caterpillar diagnostic tools. The four major engine systems studied are oil, air, cooling, and fuel.

CAT 094 - Caterpillar Machine Specific Systems - Units 2

Limitations on Enrollment: Admission into the Associate Degree Caterpillar Technician Program.

This course is designed to develop knowledge and skills used to test and adjust specific Caterpillar machine systems.

Chemistry

CHEM 001A - General Chemistry - Units 5

Prerequisites: CHEM 003A, Introduction to Chemistry, with a

minimum grade of "C" and MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, each with a grade of "C" or better or minimum assessment level 5 on the Math Placement Test. Prerequisite Skills: Reading Level II.

This course is designed as a technical introduction to chemistry for the student intending to major in chemistry, medicine, dentistry, pharmacy and other science oriented careers which require a rigorous understanding of the fundamental principles of chemistry. (UC, CSU, C-ID CHEM 110, CHEM 1A + CHEM 1B = C-ID CHEM 120S)

CHEM 001B - General Chemistry - Units 5

Prerequisites: CHEM-001A General Chemistry with a grade of "C" or better.

This course is the second semester of a one-year sequence in general chemistry designed for the student intending to major in chemistry, medicine, dentistry, pharmacy, etc., each of which require a rigorous understanding of the fundamental principles of chemistry. The topics covered will include, but not be limited to, acids and bases, chemical equilibrium, thermodynamics, oxidation-reduction, chemical kinetics, nuclear chemistry, descriptive chemistry, and coordination chemistry. The laboratory portion of the course will support the above topics including both qualitative and quantitative experiments, analysis of data and error propagation. (UC, CSU, CHEM 1A + CHEM 1B = C-ID CHEM 120S)

CHEM 003A - Introduction to Chemistry - Units 4

Prerequisites: MATH 90, Beginning Algebra, with a minimum grade of "C" or assessment level 4 or higher on the math placement test.

Prerequisite Skills: 1. Reading Level II.

This course is designed to meet the chemistry requirements for registered nursing, agriculture, home economics majors, and certain other majors in the biological sciences. (UC, CSU, C-ID CHEM 101)

CHEM 003B - Introduction to General, Organic and Biochemistry - Units 4

Prerequisites: CHEM-003A, Introduction to Chemistry, with a grade of "C" or better.

This course is a survey of basic, organic, and biochemistry which includes organic nomenclature, organic reactions, and the chemistry of sugars, proteins, nucleic acids and metabolic compounds. This course may satisfy the chemistry requirements for registered nursing, agriculture, family consumer science, and certain majors in the biological sciences. (UC, CSU)

CHEM 010 - Exploring Everyday Chemistry - Units 3

Prerequisites: MATH 090, Beginning Algebra, with a grade of "C" or better or Math assessment level 4.

Prerequisite Skills: 1. Reading Level II.

This course is designed to provide an introduction to chemistry and the role it plays in modern society. The course is designed for non-science majors such as liberal arts, social science, education, or anyone who is curious about the chemistry involved in everyday things. The student learns about topics of current interest and global importance, including global warming, depletion of the ozone layer, energy, and health issues. (UC, CSU, C-ID CHEM 100)

CHEM 012A - Organic Chemistry - Units 5

Prerequisites: CHEM-001A General Chemistry with a grade of

"C" or better.

Prerequisite Skills: 1. *Prerequisite Reading Level II.*

This course is designed as a technical and experimental introduction to Organic Chemistry for the student intending to major in premedicine, pre dental, pharmacy, chemistry, biology, and chemical engineering. Each of these requires a rigorous understanding of the fundamental principles of organic chemistry, including the nomenclature, reactions and reaction mechanisms of both aliphatic and aromatic hydrocarbons plus those of functional group compounds. (UC, CSU, C-ID CHEM 012A + 012B = C-ID 160S)

CHEM 012B - Organic Chemistry - Units 5

Prerequisites: CHEM-012A Organic Chemistry with a grade of "C" or better.

This course is designed as a continuation of CHEM 12A. The course includes a further study of the fundamental principles of organic chemistry and how they relate to biochemistry, including the carbonyl compounds, carboxylic acid derivatives and the amines. A majority of the course is devoted to compounds of biological interest including carbohydrates, proteins and nucleic acids. (UC, CSU, C-ID CHEM 012A + 012B = C-ID 160S)

CHEM 015 - Selected Topics: Chemistry - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

CHEM 050H - Special Studies: Chemistry - Units 1-2

Prerequisites: CHEM-001B General Chemistry or CHEM-012A Organic Chemistry each with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is designed to allow a qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

CHEM 075 - Selected Topics: Chemistry - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Chemistry not already covered by the existing curriculum.

Child Development

CDEV 015 - Selected Topics: Child Development - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to offer instruction in one or more of the specialized areas of child development not already covered by the existing curriculum. (CSU)

CDEV 021 - Child and Adolescent Development - Units 3

Prerequisites: Reading level II.

Advisories: ENG 079 with a minimum grade of "C" or better.

This course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through adolescence. There will be an emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences and analyze characteristics of development at various stages. (UC, CSU, C-ID CDEV 100)

CDEV 025 - Observation and Assessment - Units 3

Prerequisites: CDEV-021, Child and Adolescent Development, with a grade of "C" or better.

Advisories: ENG-079 with a grade of "C" or better.

This course focuses on the appropriate use of assessment and observation strategies to document development, growth, play and learning to join with families and professionals in promoting children's success. Recording strategies, rating systems, portfolios, and multiple assessment methods are explored. (CSU, C-ID ECE 200)

CDEV 026 - Child, Family and Community - Units 3

Prerequisites: Reading level II.

Advisories: ENG 079 and READING 094A with a minimum grade of "C" or better.

This course is designed to examine the developing child in a societal context focusing on the interrelationship of family, school and community and emphasizes historical and socio-cultural factors. The processes of socialization and identity development will be highlighted, showing the importance of respectful, reciprocal relationships that support and empower families. (CSU, C-ID CDEV 110)

CDEV 027 - Culture and Diversity in Early Childhood Education - Units 3

Prerequisites: CDEV-021, Child and Adolescent Development, with a grade of "C" or better.

Advisories: ENG-079 with a grade of "C" or better.

This course is designed to examine the development of social identities in diverse societies including theoretical and practical implications of oppression and privilege as they apply to young children, families, programs, classrooms and teaching. Various classroom strategies will be explored emphasizing culturally and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course includes self-examination and reflection on issues related to social identity, stereotypes and bias, social and educational access, media and schooling. (CSU, C-ID ECE 230)

CDEV 028 - Child Health, Safety and Nutrition - Units 3

Advisories: Reading level II, CDEV 021, and ENG 079.

This course provides an introduction to the laws, regulations, standards, policies and procedures, and early childhood curriculum related to child health, safety and nutrition in early care and education programs. The key components that ensure physical health, mental health and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Students will focus on integrating the concepts into everyday planning and program development for all children. (CSU, C-ID ECE 220)

CDEV 029 - Early Childhood Experiences: Arts and Sciences - Units 3

Prerequisites: CDEV-021 Child and Adolescent Development with a grade of "C" or better.

Prerequisite Skills: 1. *Reading Level II.*

Advisories: ENG-079 and CDEV-031B each with a grade of "C" or better.

This course is an introduction to the early childhood education curriculum in creative arts, science, mathematics, health, nutrition, music, creative movement, dramatic play, manipulative materials, and outdoor activities. The course includes the planning, preparation, presentation, and evaluation of learning activities for young children. (CSU)

CDEV 030 - Early Childhood Experiences: Language Arts - Units 3

Prerequisites: CDEV-021 *Child and Adolescent Development* with a grade of "C" or better.

Advisories: CDEV-031B ENG-079 each with a grade of "C" or better.

This course is an introduction to the language arts curriculum in early childhood education and the planning, preparation, presentation, and evaluation of language and literacy experiences for young children. Focus is on the development of a positive attitude toward books, reading, listening skills, verbal and written expression. (CSU)

CDEV 031A - Principles and Practices of Teaching Young Children - Units 3

Prerequisites: CDEV-021 *Child and Adolescent Development* with a grade of "C" or better.

Advisories: ENG-079 with a grade of "C" or better.

This course is an examination of the underlying theoretical principles of developmentally appropriate practices applied to programs, environments, emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development for all children. This course includes a review of historical roots of early childhood education programs and the evolution of the professional practices promoting advocacy, ethics and professional identity. (CSU, C-ID ECE 120)

CDEV 031B - Introduction to ECE Curriculum - Units 3

Prerequisites: CDEV 031A with a minimum grade of "C" or better.

Advisories: ENG 079 with a minimum grade of "C" or better.

This course presents an overview of knowledge and skills related to providing appropriate curriculum and environments for infants and young children. Students will examine the teacher's role in supporting development by using observation and assessment strategies and emphasizing the essential role of play. An overview of content areas will include but not be limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science. (CSU, C-ID ECE 130)

CDEV 032A - Early Childhood Education Practicum-Field Experience - Units 3

Prerequisites: CDEV-021 *Child and Adolescent Development*; CDEV-026 *Child, Family and Community*; CDEV-031A *Principles and Practices of Teaching Young Children*; CDEV-031B *Introduction to ECE Curriculum*; each with a grade of "C" or better.

Limitations on Enrollment: Title 22 requires TB Clearance within last 12 months.

Advisories: ENG-079 with a grade of "C" or better.

This course is designed to prepare students to teach in various types of early childhood education programs. It includes a demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment, and knowledge of curriculum content areas will be emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children. (CSU, C-ID ECE 210)

CDEV 032B - Advanced ECE Practicum - Units 3

Prerequisites: CDEV-032A *Early Childhood Education Practicum-Field Experience* with a grade of "C" or better.

Limitations on Enrollment: Title 22 *Community Care Licensing Regulations Finger printing & Criminal Record Clearance* and Title 22 *Community Care Licensing Regulations Health & TB Clearance*.

Advisories: ENG-079 with a grade of "C" or better.

This course is designed to prepare the student to teach in various types of early childhood education programs. Observing, planning, implementing, and evaluating developmentally appropriate learning experiences are exercised as a student teacher in San Joaquin Delta College's Child Development Center or placement with a certified mentor teacher. Writing learning objectives, assessing children's behavior, and preparing a professional portfolio is required of all students. (CSU)

CDEV 033 - Infant and Toddler Development - Units 3

Advisories: CDEV-021 and ENG-079 each with a grade of "C" or better.

This course is a study of infants and toddlers from preconception to age three including physical, cognitive, language, social, and emotional growth and development. Theoretical frameworks are applied to interpret behavior and interactions between heredity and environment. The role of family and relationships in development is emphasized. (CSU)

CDEV 034 - Children with Special Needs - Units 3

Prerequisites: CDEV 021 with a grade of "C" or better.

Advisories: ENG-079 with a grade of "C" or better.

This course introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. It includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process.(CSU)

CDEV 035 - Adult Supervision and Mentoring in Early Care and Education - Units 3

Prerequisites: CDEV 021 and CDEV 031A and CDEV 031B each with a grade of "C" or better.

Advisories: CDEV 032A and ENG 079 each with a grade of "C" or better.

This course addresses methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. Emphasis is on the roles and development of early childhood professionals as mentors and leaders. (CSU)

CDEV 036 - Activities and Environments for School Age Child Care - Units 3

Advisories: CDEV-021 ENG-079 each with a grade of "C" or better.

This course is designed to focus on the planning, implementation, and evaluation of creative and educational activities suitable for school-age children in child-care programs. Emphasis is placed on providing experiences which stimulate growth, discovery, and learning. (CSU)

CDEV 037 - Administration I: Programs in Early Childhood Education - Units 3

Prerequisites: CDEV-021, *Child and Adolescent Development*, and CDEV-031A, *Principles and Practices of Teaching Young Children*, each with a grade of "C" or better.

Advisories: ENG-079, CDEV-031B, and CDEV-032A, each with

a grade of "C" or better.

This course is an introduction to the administration of early childhood programs. Program types, budget, management, regulations, laws, development and implementation of policies and procedures are covered. Administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program are examined. (CSU)

CDEV 038 - Administration II: Personnel and Leadership in Early Childhood Ed - Units 3

Prerequisites: CDEV-021, Child and Adolescent Development, and CDEV-031A, Principles and Practices of Teaching Young Children, each with a grade of "C" or better.

Advisories: ENG-079, CDEV-031B, and CDEV-032A, each with a grade of "C" or better.

Limitations on Enrollment: None. Advisories: None. This course focuses on effective strategies for personnel management and leadership in early care and education settings. Legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program will be addressed. (CSU)

CDEV 039 - Care and Education for Infants and Toddlers - Units 3

Prerequisites: CDEV 033, Infant and Toddler Development, with a grade of "C" or better.

This course applies current theory and research to the care and education of infants and toddlers in group settings. Essential policies, principles and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months will be examined. (CSU)

CDEV 050H - Special Studies: Child Development/ECE - Units 1-2

Prerequisites: CDEV-021 Child and Adolescent Development and CDEV-031A Principles and Practices of Teaching Young Children and CDEV-031B Introduction to ECE Curriculum each with a grade of "C" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean. Instructor Permission.

This course is open to the student who is qualified to do advanced work in the field of child development/ early childhood education or a closely related field. The course includes research, directed reading, field work, or other advanced study. (CSU)

CDEV 062 - Positive Parenting - Units 1

This course is designed to help the parent attain meaningful interaction with his or her children and to learn the skills of effective discipline, open communication, and values clarification. (CSU)

CDEV 063 - Child Discipline - Units 1

Advisories: CDEV-021 ENG-079 each with a grade of "C" or better.

This course is designed to provide teachers and parents with theory and effective techniques related to discipline. Topics include discussions of cultural differences and practical, positive approaches to discipline. (CSU)

CDEV 070 - Introduction to Family Child Care - Units 1

Advisories: CDEV-021 with a grade of "C" or better.

This course is an introduction to current licensing regulations, insurance, and record keeping requirements which affect the operation of family child care homes. The student is introduced

to child development principles and age appropriate activities suitable to small groups and home environments.

CDEV 071 - Children, Imagination, and Books - Units 1

Advisories: Reading level II.

This course is recommended for the student, parent, and educator who wants a better understanding of how books contribute to the creativity, cognitive, language, and social-emotional development of young children. Emphasis is placed on the selection and evaluation of children's literature and the ways in which books can be used to enrich the lives of children.

CDEV 072 - Play and Learning - Units 1

This course is designed to examine play as a learning process for infants, toddlers, preschoolers, and school-age children. Social, physical, and intellectual benefits of play are analyzed, and compared to state and federal learning standards. Cross-cultural aspects of play are emphasized.

CDEV 073 - Preschool Art - Units 1

This course is an exploration of developmentally appropriate art experiences for children from infancy through eight years, including children with special needs. This course will include the study of child development and artistic expression, appropriate art materials, presentation of materials, formulation of objectives, and direct participation in creative media.

CDEV 074 - Preschool Science - Units 1

This course is designed to present an organized, sequential approach to creating a developmentally appropriate science curriculum for infant/toddler, preschool and primary school children. Emphasis is placed on three types of learning: Naturalistic, informal and structured. Integration of science with math, language arts, social studies, art and music is stressed.

CDEV 075 - Discovering Child Development - Units 2

This course is an introduction to child development for those interested in the processes and stages of development from infancy through middle childhood. Focus is on the major developmental milestones and how they may be observed in children's everyday behavior. This course does not meet Community Care Licensing requirements for child growth and development.

CDEV 080 - Selected Topics: Child Development - Units 0.5-4

Prerequisite Skills: 1. Determined by Topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Child Development not already covered by the existing curriculum.

CDEV 093V - Work Experience: Child Development and Education - Units 1-8

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 GUID-031 GUID-032 GUID-033 each with a grade of "C" or better.

This course is designed for the student employed or wanting to gain practical experience working in the early childhood education setting. The course objectives are developed by the student in

consultation with his or her supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervision of the work site supervisor and college work experience instructor.

Chinese

CHIN 001 - Elementary Chinese I - Units 5

This course is an introduction to the Chinese language and Chinese cultures/geographical area studies. Emphasis is placed on communication skills (listening, speaking, reading, and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). (UC, CSU)

CHIN 002 - Elementary Chinese II - Units 5

Prerequisites: CHIN-001 Elementary Chinese with a grade of "C" or better.

This course continues to develop proficiency in Chinese listening, speaking, reading, and writing skills on the advanced elementary level. It continues to explore the cultures of Chinese-speaking countries by analyzing behaviors, institutions, perspectives and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

CHIN 003 - Intermediate Chinese I - Units 5

Prerequisites: CHIN-002 Elementary Chinese with a grade of "C" or better.

This course is designed to offer continued study of the Chinese language and Chinese cultures. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). Efforts to improve reading and composition skills are based on both contemporary and traditional selection of literary texts. (UC, CSU)

CHIN 004 - Intermediate Chinese II - Units 5

Prerequisites: CHIN-003 Intermediate Chinese with a grade of "C" or better.

This course offers continued study of the Chinese language on the advanced intermediate level. Efforts to further develop reading and composition skills are based on both contemporary and traditional selection of literary texts. It continues to explore the culture of the Chinese-speaking countries. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

CHIN 015 - Selected Topics: Chinese - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

CHIN 050H - Special Studies: Chinese - Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; CHIN 4 with a grade of "B" or better.

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

CHIN 075 - Selected Topics: Chinese - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of Chinese not covered by the existing curriculum. Units in this course do not count toward an associate degree.

Civilization

CIVIL 003 - Autobiography of Civilization - Units 3

This course is a survey of the artistic traditions of our western cultural heritage. The arts including painting, sculpture, architecture, music, dance, drama, and literature are studied as vehicles in the search for meaning and value from the ancient world to modern times. (UC, CSU)

Communication Disorders

COMM DIS001A - Introduction to Communication Disorders - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed to address speech and language disorders in children and adults. Topics include speech, hearing, and language disorders, trends in Legislation and education, and a review of available community resources. The course provides information to the student exploring a career related to speech and language therapy. (CSU)

COMM DIS001B - Speech, Language and Hearing Development - Units 3

Prerequisites: COMM DIS-001A Introduction to Communication Disorders with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

This course is the study of speech, language and hearing development across the normal human life span. It includes genetic, cultural, and social aspects of communication development. Theories of language acquisition are discussed. Phonological, morphological, syntactic, semantic and pragmatic development will be considered and language sample analysis with typically developing children is practiced. (CSU)

COMM DIS003 - Therapy Analysis and Field Observation - Units 3.5

Prerequisites: COMM DIS 001A, Introduction to Communication Disorders, COMM DIS 001B, Speech, Language and Hearing Development, ENG 001A, Reading and Composition, and H S 019, Human Development, all with a grade of "C" or better.

This course is an introduction to speech therapy programs in public schools, clinics, hospitals, and skilled nursing facilities. Students learn the basic therapy protocol utilized in treatment for all disorders. Critical components of evidenced based practice and efficient, appropriate therapy are reviewed. The laboratory component includes student observation of a speech therapist at the off-campus facilities. (CSU)

COMM DIS005 - Therapy Materials and Procedures - Units 3

Prerequisites: COMM DIS 003, Therapy Analysis and Field Observation, with a minimum grade of "C" or better.

Corequisites: COMM DIS 003, Therapy Analysis and Field Observation.

Limitations on Enrollment: Admission into the Speech Language Pathology Assistant Program.

This course is a survey of materials and procedures found in Speech Language Pathology Assistant (SLPA) clinical programs in public schools, hospitals, and skilled nursing facilities. Topics include record keeping, report writing, behavior modification techniques, computer assisted programs, International Phonetic Alphabet (IPA), American Speech-Language Hearing Association (ASHA), Code of Ethics, and state and national guidelines for speech therapy. (CSU)

COMM DIS007 - Service Delivery Issues for the SLPA - Units 3

Prerequisites: COMM DIS 003, *Therapy Analysis and Field Observation, with a minimum grade of "C" or better.*

Corequisites: COMM DIS 003, *Therapy Analysis and Field Observation.*

Limitations on Enrollment: Admission into the Speech Language Pathology Assistant Program.

This course introduces principles and practices for management of individuals with communicative disorders including consideration for cultural and linguistic variations, an introduction to treatment and behavior management strategies related to Autism Spectrum Disorders and the needs of non-oral children and adults, as well as the preparation, use and maintenance of selected adaptive communication equipment. Legal and ethical considerations, requirements for employment in various work settings, including interdisciplinary and supervisory relationships and scope of relationships are presented. State and national regulations, laws, and guidelines from professional organizations for Speech Language Pathology Assistants (SLPA) are also reviewed. (CSU)

COMM DIS009 - Assessment and Remediation - Units 6-6.5

Prerequisites: COMM DIS-003 *Communication Disorders: Therapy Analysis and Field Practice* and COMM DIS-005 *Communications Disorders: Materials and Procedures* and COMM DIS-007 *Communication Disorders: Service Delivery Issues* each with a grade of "C" or better or.

Corequisites: COMM DIS-005 *Communications Disorders: Materials and Procedures* and COMM DIS-007 *Communication Disorders: Service Delivery Issues.*

Limitations on Enrollment: Admission into the Speech Language Pathology Assistant Program.

This course explores in depth specific disorders of communication, with a focus on evidence-based practice. It covers remediation techniques and rationales for commonly used therapeutic approaches, assessment within the scope of SLPA practice as well as principles of learning, data collection, clinical documentation, and record keeping. This course provides supervised fieldwork experience assisting with the clinical management of persons with communicative disorders. There are opportunities to interact with clients/patients while implementing a prescribed treatment plan, and assisting with screening or evaluation under the direction of a Speech-Language Pathologist. The experience also includes opportunities for record keeping and managing client data, setting up/preparing for sessions as needed, and performing various clerical duties as needed. All fieldwork is done in specified off-campus locations. (CSU)

COMM DIS015 - Selected Topics: Speech Language Pathology - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

COMM DIS075 - Selected Topics: Communication Disorders - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Communication Disorders not already covered by the existing curriculum.

Communication Studies**COM ST 001A - Public Speaking - Units 3**

Prerequisite Skills: 1. *Reading Level II.*

This course is designed to explore current theories of communication, audience analysis, development, and organization of information for public speaking. (UC, CSU, C-ID COMM 110)

COM ST 001B - Advanced Public Speaking - Units 3

Prerequisites: COM ST-001A *Fundamentals of Speech* with a grade of "C" or better.

This course is designed to provide the student with further refinement in delivery, style, and choice of materials and methods of organization for public speaking. The course is of special value to the pre-legal, theology, radio, speech, drama, and teaching credential student. (UC, CSU)

COM ST 002 - Oral Interpretation of Literature - Units 3

The study of literature through an emphasis on vocal delivery and physical techniques. Analysis and appreciation of literary genres (poetry, prose, drama). (CSU, UC, C-ID COMM 170)

COM ST 003 - Interpersonal Communication - Units 3

Prerequisite Skills: 1. *Reading Level II.*

Principles of verbal and nonverbal transactions that occur in relationships. Study of theory and research findings and their application to communication in interpersonal relationships in personal and professional contexts. This course is designed as an overview of interpersonal communication including analysis of relationships with family, friends, significant others, acquaintances, and co-workers. Practical application of skills for effective interpersonal communication with others is emphasized in face-to-face, supervised interactions and computer-mediated communication and includes understanding the significance of psychological, sociological, and anthropological research, nonverbal communication, resolving conflicts and intercultural differences. (UC, CSU, C-ID COMM 130)

COM ST 004 - Introduction to Human Communication - Units 3

This introductory communication course focuses on the basic foundations of interpersonal communication, small group communication and public speaking. Students will be introduced to the breadth of the communication discipline. Additionally, students will examine and practice human communication principles and theories, at a basic level, to develop critical thinking and communication competencies in a variety of contexts. (UC, CSU, C-ID COMM 115)

COM ST 005 - Argumentation and Debate - Units 3

This course is a study of the methods of critical inquiry and advocacy. Students will identify fallacies in reasoning and language, test evidence and evidence sources, advance a reasoned position, and defend and refute arguments. Analysis, presentation, and evaluation of oral and written arguments will be completed. (UC, CSU, C-ID COMM 120)

COM ST 006 - Business and Professional Communication - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

This course is designed as an overview of business and professional communication in various settings including day-to-day interactions, group discussions, written documents, formal presentations, and job interviewing. Practical application of skills for effective business and professional communication is emphasized, including the development of self-confidence and ease in the workplace. (CSU)

COM ST 007 - Intercultural Communication - Units 3

This course is designed as an overview of the study of intercultural communication which includes analysis and comparisons of message perception and transmission in interactions between people from different cultures. Practical application of skills for effective communication between individuals of different domestic and international cultures is emphasized. (UC, CSU, C-ID COMM 150)

COM ST 008 - Small Group Communication - Units 3

This course is designed to increase a student's understanding of the principles, techniques, and types of small group discussion and to prepare students to function more effectively in various types of groups. The course will assist the student in understanding how group dynamics are uniquely affected by verbal and nonverbal messages, cultural influences, roles, leadership, group cohesiveness, and managing conflict. The student will learn problem solving and decision-making through simulations and discussions and will analyze, synthesize, and criticize ideas and information in group presentations. (CSU, C-ID COMM 140)

COM ST 009 - Introduction to Communication Theory - Units 3

This course is designed to assist the student in understanding the basic theoretical foundation of human communication. The student applies communication theory to everyday interaction and public address through various approaches of analysis. (CSU, C-ID COMM 180)

COM ST 010 - Storytelling: Interpreting Children's Literature - Units 3

This course is an introduction to the history of storytelling and the techniques of listening, preparation and presentation of literature. Emphasis is upon sources, selection of materials, analysis, preparation and presentation of prose, verse and drama. The course is designed to develop the student's knowledge, critical ability and appreciation in the field of children's literature. (CSU)

COM ST 011 - Dialogues in U.S. American Culture - Units 3

Dialogues in U.S. American Culture is designed to explore multicultural communication within the national culture. The course content includes a wide range of perspectives to provide an informed discussion about the similarities and differences among cultural groups. The lectures, discussions and films explore topics including: ethnicity, race, (dis)ability, social class, gender, sexual orientation, religion, and identity politics and how these issues affect intracultural communication. (CSU)

COM ST 012 - Introduction to Persuasion - Units 3

Advisories: COM ST-001A with a grade of "C" or better.

Introduction to Persuasion will examine historical and contemporary approaches to persuasive messages throughout time. It will also focus on the presentation of persuasive appeals, and learning to construct, deliver, and critique persuasive messages (C-ID COMM 190, CSU, UC).

COM ST 013 - Readers Theatre - Units 3

A study of the principles and dynamics of group performances. Emphasis on theories and techniques used to prepare Readers Theater productions. Using prose, poetry, and dramatic literature students will create, analyze, stage, and perform Readers Theater material. (CSU)

COM ST 015 - Selected Topics: Communication Studies - Units 0.5-4

This course is designed for the student who wishes to explore special topics while refining communication skills. Specific topics appear in the semester schedule of classes. (CSU)

COM ST 050H - Special Studies: Communication Studies - Units 1-3

Prerequisites: COM ST-001A Fundamentals of Speech or COM ST-002 Oral Interpretation of Literature or COM ST-003 Interpersonal Communication or COM ST-005 Argumentation and Debate or COM ST-007 Intercultural Communication or COM ST-008 Small Group Communication or COM ST-010 Storytelling: Interpreting Children's Literature or COM ST-052 Speech Activities and Advocacy each with a grade of "B" or better.

Limitations on Enrollment: Presentation of a project acceptable to the instructor and division chairperson.

This course is a special studies course and is open to the student qualified to do advanced work in the field. The course includes research, directed reading, field work or other advanced study. (CSU)

COM ST 052 - Speech Activities and Advocacy - Units 1-3

Prerequisites: COM ST-001A Fundamentals of Speech or COM ST-002 Oral Interpretation of Literature or COM ST-005 Argumentation and Debate each with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

Limitations on Enrollment: Qualified Performer.

This course is designed to provide academic credit for participation in community speech activities and intercollegiate speech tournaments, workshops, and intramural speech activities. The student researches, writes, develops programs, works on debate and extemporaneous speech files, and delivers public speaking assignments including but not limited to debates, public speaking activities, oral interpretation of literature, and readers' theatre. (CSU, C-ID COMM 160B)

COM ST 075 - Selected Topics: Communication Studies - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Communication Studies not already covered by the existing curriculum.

Computer Science**CS 011 - Fundamentals of Computer Science - Units 3**

Prerequisite Skills: 1. Reading Level II.

This course is designed to introduce the student to the hardware, software, terminology, and uses of modern computer systems. Sociological, physiological, and psychological impacts of computers and technological changes are included. Computer programming and the use of word processing, electronic spreadsheets, database, and presentation software are introduced. (UC, CSU)

CS 012 - Introduction to Management Information Systems - Units 3

Prerequisites: CS-011 Fundamentals of Computer Science with a grade of "C" or better.

This course is an examination of information systems and their role in business. It focuses on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. The course also addresses application of these concepts and

methods through hands-on projects developing computer-based solutions to business problems. (UC, CSU, C-ID ITIS 120)

CS 015 - Selected Topics: Computer Science - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science not already covered by the existing curriculum. (CSU)

CS 016 - Introduction to Game Design - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science with a grade of "C" or better.*

Advisories: CSP-017 or CSP-031A *each with a grade of "C" or better.*

This course is an introduction to current and future techniques for electronic game design and programming. Topics include graphics, game programming, game engines, motion control, narrative in games, game interfaces, artificial intelligence, music and sound, mobile games, "Serious Games" and social and interface issues of multi-user play. (CSU)

CS 022 - Computer Interface and Web Design - Units 3

Advisories: CSW 023, HTML for Web Publishing, or CSW 039, Dreamweaver, *both with a grade of "C" or better.*

This course is an introduction to the study of human/computer interface design and web page design. Topics covered include mental models, understanding users, interaction design principles, use of control elements and menus, designing for different needs, and similar topics. Computer laboratory assignments are required. (CSU)

CS 032 - Introduction to Computer Operating Systems - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science with a grade of "C" or better.*

This course is an introduction to the inner workings of an operating systems. It covers how memory is allocated in main memory and secondary memory, how programs are executed as processes and threads, multitasking and multiprocessing, networking, distributed systems, system performance, and security. Students will study various examples of an operating system such as Microsoft Windows, Apple iOS or the Google Android operating system. (UC, CSU)

CS 033 - Systems Analysis and Design - Units 3

This course is an introduction to systems analysis and design. (CSU)

CS 042 - Introduction to Unix/Linux - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science with a grade of "C" or better.*

This course is an introduction to the Linux and UNIX operating systems primarily focused on command line usage. It covers history, kernel, file systems, shells, command-line tools, and user utilities. It also introduces students to the fundamentals of shell programming, processes, communications, and basic security. (CSU)

CS 050H - Special Studies: Computer Science - Units 1-4

Prerequisites: CS 011, *Fundamentals of Computer Science, with a grade of "C" or better.*

Limitations on Enrollment: To qualify for CS 050H, a student must have completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and Division Dean. A grade of "C" or better in at least one course in any CS, CSA, CSP, CSN

or CSW discipline for follow-up study.

This course is designed for the student of Computer Science who is qualified to do advanced work to expand his/her knowledge beyond the established curriculum. The student selects or is assigned a project approved by a faculty member and the Division Dean. The student pursues the project through individual laboratory effort, research, or other advanced study and reports progress at scheduled meetings with the faculty member. (CSU)

CS 055 - Discrete Structures for Computer Science - Units 3

Prerequisites: CSP-031A *C++ Programming I* or CSP-026A *Java Programming each with a grade of "C" or better or.*

Advisories: CSP-028A or MATH-001 or MATH-039 or MATH-038A *each with a grade of "C" or better.*

This course is an introduction to the discrete structures used in Computer Science with an emphasis on their applications. Topics covered include: functions, relations and sets; basic logic; proof techniques; basics of counting; graphs and trees; and discrete probability. (CSU, C-ID COMP 152)

CS 056 - Networking Essentials - Units 3

Advisories: CS-011 *with a grade of "C" or better.*

This course is a general introduction to current network technologies for local area networks (LANs), wide area networks (WANs), and the Internet. The course includes an introduction to the hardware, software, terminology, components, design, and connections of a network, as well as the topologies and protocols for LANs. This course includes LAN-user concepts and the basic functions of system administrations and operation. (CSU)

CS 076 - Selected Topics: Computer Science - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science not already covered by the existing curriculum.

CS 098V - Work Experience: Computer Science - Units 1-8

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 *each with a grade of "C" or better.*

This course is designed for the student employed in a computer science related position. The course objectives are developed in consultation with a work supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervisor and the college work experience instructor.

Computer Science Applications

CSA 015 - Selected Topics: Computer Science Applications - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized area of Computer Science Applications not already covered by the existing curriculum. (CSU)

CSA 020 - Computer Information Systems Applications - Units 3

This course is designed to introduce the student to a microcomputer and the PC based programs such as Internet Explorer, Windows Operating System, Microsoft Word (word processor), Excel (spreadsheet), and PowerPoint (presentation graphics). (CSU)

CSA 035 - Multimedia Presentations - Units 3

This course is designed to introduce concepts required for creating business presentations with text, graphics, and multimedia capabilities. Presentation layout and design techniques are emphasized. (CSU)

CSA 071 - Microsoft Windows - Units 1

This course is designed to present beginning and intermediate topics in the use of the Microsoft Windows operating system. These topics include: exploring the desktop; working with windows; examining system properties; exploring disk organization; managing files; using accessories (calculator, WordPad, and Paint); controlling print features; copying, moving, exchanging, and sharing data; and running applications.

CSA 075 - Selected Topics: Computer Science Applications - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Applications not already covered by the existing curriculum.

Computer Science Networking**CSN 015 - Selected Topics: Computer Science Networking - Units 0.5-4**

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Networking not already covered by the existing curriculum. (CSU)

CSN 040 - Information Security Fundamentals - Units 3

Prerequisites: CS-056 Networking Essentials or CS-054 Fundamentals of Data Communications each with a grade of "C" or better.

This course is an introduction to the various technical and administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. Students will be exposed to the spectrum of Security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of the Information Security Planning and Staffing functions. (CSU)

CSN 058A - Introduction to Desktop Operating Systems - Units 3

Prerequisites: CS-056 Networking Essentials with a grade of "C" or better.

This course is an introduction to Microsoft Windows 7 Professional. The student installs Windows 7 Professional and uses the various strategies for administering, configuring, securing, and managing Windows 7. The student learns administration of Transmission Control Protocol/Internet Protocol (TCP/IP) and other available network protocols. The course is

intended for the student who supports or administers networks. (CSU)

CSN 058B - Microsoft Windows Server - Units 3

Prerequisites: CS-056 Networking Essentials or CSN-058A Introduction to Desktop Operating Systems or ELECT-030A Basic Electronic Computer Networks each with a grade of "C" or better.

This course is an introduction to Microsoft Windows Server. The student installs Windows Server and uses strategies for administering, configuring, securing, and managing Windows Server and a network. The student learns about the various file systems supported by Windows 7 & XP, administration of Active Directory services and management of Active Directory objects and network protocols and services. The course is intended for the student who supports or administers networks. (CSU)

CSN 058C - Implementing Windows Network Infrastructure - Units 3

Prerequisites: CSN-058B Microsoft Windows Server with a grade of "C" or better.

Advisories: CSN-058A with a grade of "C" or better.

This course is designed to introduce the installation, configuration, management, and support of a network infrastructure using Microsoft Windows Server products. The course focuses on TCP/IP and related services, including DHCP Server service, DNS Server service, WINS, network security protocols, Public Key Infrastructure (PKI), Internet Protocol Security (IPSec), and remote access. The course also enables the student to configure Windows as a network router, configure Internet access for a network, configure a Web server, and manage a Windows deployment using Remote Installation Services (RIS). The student learns to enable network connectivity between NetWare, Macintosh, and Unix networks. (CSU)

CSN 058D - Implementing Windows Active Directory Services - Units 3

Prerequisites: CSN-058B Microsoft Windows Server with a grade of "C" or better.

Advisories: CSN-058C with a grade of "C" or better.

This course is designed to allow the student to install, configure, and administer Microsoft Windows Active Directory directory services. The course also focuses on implementing Group Policy and understanding Group Policy tasks required to centrally manage users and computers. The student uses Group Policies to configure and manage the user desktop environment, to configure and manage software, and to implement and manage security settings. The student also installs and manages Windows Domains and Domain Controllers through Active Directory. (CSU)

CSN 060 - Network Security - Units 3

Prerequisites: CS-054 Fundamentals of Data Communications or CS-056 Networking Essentials each with a grade of "C" or better.

This course teaches students how to design network security through lectures, discussions, paper exercises, and lab projects. Students will learn how to assemble a design team and how to analyze current business and technical environments. In addition, they will learn how to design a security solution, a Public Key Infrastructure (PKI), and network services security. Students will also learn to create security solutions for access between networks, as well as in a heterogeneous network environment. They will learn how to create an application-level security plan and how to create a security implementation plan. (CSU)

CSN 075 - Selected Topics: Computer Science Networking - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Networking not already covered by the existing curriculum.

Computer Science Programming**CSP 015 - Selected Topics: Computer Science Programming - Units 0.5-4**

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Programming not already covered by the existing curriculum. (CSU)

CSP 017 - Introduction to Programming Concepts and Methodologies - Units 3

Prerequisite Skills: 1. *Advisory: Reading Level II.*

Advisories: MATH-080 with a grade of "C" or better or a minimum of Level 4 on the math placement test.

This course introduces the student to the basics of programming logic and algorithm design and development. Students will learn the basic constructs of programming, including variables, constants, expressions, control structures, functions and arrays. (UC, CSU, C-ID COMP 112)

CSP 025 - Assembly Language Programming - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science* and CSP-017 *Introduction to Programming Concepts and Methodologies* each with a grade of "C" or better.

This course introduces students to the organization and behavior of real computer systems at the assembly-language level. The mapping of statements and constructs in a high-level language onto sequences of machine instructions is studied, as well as the internal representation of simple data types and structures. Numerical computation is examined, noting the various data representation errors and potential procedural errors. (UC, CSU, C-ID COMP 142)

CSP 026A - Java Programming - Units 3

Prerequisites: CS 011, *Fundamentals of Computer Science*, or ENGR 001, *Introduction to Engineering and Technology*, and CSP 017, *Introduction to Programming*, or CSP 029A, *Pascal Programming*, all with a grade of "C" or better.

This course focuses on the discipline of computer science using a high-level language (Java) utilizing programming and practical hands-on problem solving. The student writes applications and applets using the Java programming language. Topics include control structures, classes, methods, properties, and arrays. (CSU, UC, C-ID COMP 122).

CSP 026B - Data Structures with Java - Units 3

Prerequisites: CSP-026A *Java Programming* with a grade of "C" or better.

This course includes application of software engineering techniques to the design and development of large programs, data abstraction and structures, and associated algorithms. This course continues the study of software specification, design, implementation, and debugging techniques while introducing abstract data types, fundamental data structures and associated algorithms. Coverage includes dynamic memory, file Input/Output, linked lists, stacks, queues, trees, recursion, sorts, and an introduction to the complexity of algorithms. The student

will be expected to design, implement, test, and analyze a number of programs. (UC, CSU, C-ID COMP 132).

CSP 028A - Visual Basic .NET Programming - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science* and CSP-017 *Computer Logic* or CSP-029A *Pascal Programming* each with a grade of "C" or better.

This course is designed to introduce the student to programming skills using the object oriented programming language Visual Basic .NET. Topics such as event-driven programming, standard controls, and objects are included. (UC, CSU)

CSP 028B - Advanced Visual Basic .NET Programming - Units 3

Prerequisites: CSP-028A *Visual Basic .NET Programming* with a grade of "C" or better.

This is an advanced course in Visual Basic .NET programming. This course focuses on the advanced features of Visual Basic .NET. Topics include object-oriented programming, database applications, using Web forms and Web services, and using collections. (CSU)

CSP 029A - Pascal Programming - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science* with a grade of "C" or better.

This course is an introduction to the general purpose programming language, Pascal. Pascal is a structured language designed to teach structured programming concepts. General problem-solving techniques using these structured concepts are covered along with elementary data structures. Topics include string manipulation techniques, arrays and records. list. (UC, CSU)

CSP 031A - C++ Programming I - Units 3

Prerequisites: CS 011, *Fundamentals of Computer Science*, or ENGR 001, *Introduction to Engineering and Technology*, and CSP 017, *Introduction to Programming*, or CSP 029A, *Pascal Programming*, all with a grade of "C" or better.

This course addresses the discipline of computer science, using a high-level language (C++) which utilizes programming and practical hands-on problem solving. (CSU, UC, C-ID COMP 122)

CSP 031B - C++ Programming II - Units 3

Prerequisites: CSP-031A *C++ Programming I* with a grade of "C" or better.

This course addresses application of software engineering techniques to the design and development of large programs using C++, data abstraction and structures, and associated algorithms. (UC, CSU, C-ID COMP 132)

CSP 043A - Database Design and Implementation using Oracle. - Units 3

Prerequisites: CS-011 *Fundamentals of Computer Science* or CSA-020 *MS Word, Excel, and Access* each with a grade of "C" or better.

This course is an introduction to the design and implementation of a database using the Oracle Relational Database Management System (RDBMS). The database design and conceptual modeling is accomplished by analyzing various business scenarios and creating a data model, a conceptual representation of an organization's information. By analyzing the detailed data requirements of each operating unit and creating conceptual models, students learn how large, complex and dynamic organizations operate. The implementation of the database design will be accomplished by using SQL, the industry-standard database programming language, and Oracle RDBMS. (CSU).

CSP 043B - Database Design and Implementation using Oracle - Units 3

Prerequisites: CS 011, with a minimum grade of "C" or better; CSA 20, with a minimum grade of "C" or better.

This course is an introduction to the design and implementation of a database using the Oracle Relational Database Management System (RDBMS). The database design and conceptual modeling is accomplished by analyzing various business scenarios and creating a data model, a conceptual representation of an organization's information. By analyzing the detailed data requirements of each operating unit and creating conceptual models, students learn how large, complex and dynamic organizations operate. The implementation of the database design will be accomplished by using SQL, the industry-standard database programming language, and Oracle RDBMS. (CSU)

CSP 045 - Web Database Programming with PHP and MySQL - Units 3

Advisories: CS-011 or CSP-043A each with a grade of "C" or better.

This course is an introduction to creating a dynamic website using PHP and MySQL. Students will learn about client/server data processing, relational database concepts, an introduction to structured query language using MySQL, PHP scripting, and the use of HTML in database programming. (CSU)

CSP 075 - Selected Topics: Computer Science Programming - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Programming not already covered by the existing curriculum.

Computer Science Web Design**CSW 015 - Selected Topics: Computer Science Web Design - Units 0.5-4**

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Web Design not already covered by the existing curriculum. (CSU)

CSW 021 - JavaScript Programming - Units 3

Prerequisites: CSW-023 HTML for Web Publishing with a grade of "C" or better.

This course is an introduction to JavaScript programming. Topics include using JavaScript to add functionality to web pages, create dynamic web pages, and implement web page interactivity. Laboratory projects include integrating JavaScript into HTML files to create special functions such as, creating pop-up windows, adding scrolling messages, adding images and forms, creating and modifying cookies, using frames and objects, and detecting keystrokes in a browser. (CSU)

CSW 023 - HTML for Web Publishing - Units 3

Advisories: CS-011 with a grade of "C" or better.

This course is designed to provide the student an understanding of the basic Hypertext Markup Language (HTML) code required to construct web pages. The student learns and applies text formatting, links, tables, image maps, forms and frames, multimedia integration, and cascading style sheets. (CSU)

CSW 039 - Dreamweaver - Units 3

Advisories: CS 011, Fundamentals of Computer Science, with a grade of "C" or better.

This course is designed to provide the student an understanding of the Dreamweaver Web publishing tool used to develop a web

site. Topics will include Dreamweaver's workspace, formatting, tables, forms, images, frames, style sheets, layers, behaviors, timelines, and libraries. The student will also learn web architecture as applied to navigation, content, and platform issues. (CSU)

CSW 075 - Selected Topics: Computer Science Web Design - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Computer Science Web Design not already covered by the existing curriculum.

Construction Technology: Apprenticeship**A-CON 100A - Introduction to Plumbing - Units 0**

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce students to the fundamentals of a plumbing and pipefitting career, plumbing materials and tools, and introduce the industry requirements of the Occupational Safety and Health Act (OSHA).

A-CON 100B - Related Math and Rigging - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of fundamental mathematics, pipe and pipe fitting measurement, drawing interpretation, plan reading and rigging skills necessary for the plumbing and pipefitting industry.

A-CON 100C - Drawing, Plan Reading and Science - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the applied scientific principles utilized in plumbing systems. The course includes plumbing print reading, piping drawing, sketching, and writing specifications. A review of basic electricity is included.

A-CON 100D - Welding - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of basic welding skills for steel plate and pipe. The course includes the basic theory, practice, and application of arc welding and oxy-acetylene cutting and welding.

A-CON 101A - Water Supply, Pumps and Installations - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with a review of applied plumbing mathematics, and an introduction to water supply systems, design and installation.

A-CON 101B - Gas Installation and Drainage - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of the major characteristics of drainage systems, their function, and installation procedures. The course also includes applied mathematics to solve plumbing calculations.

A-CON 101C - Advanced Plan Reading, Fixtures and Appliances - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with a knowledge of plan interpretation skills, characteristics of fixtures, characteristics of appliances, and installation procedures for fixtures and gas appliances.

A-CON 101D - Codes and Steam Systems - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of the characteristics and installation procedures for swimming pools, and special purpose systems including application of appropriate plumbing codes.

A-CON 102A - Pipe Fitting Calculations - Units 0

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with an understanding of advanced layout techniques, medical gas installation requirements, and back flow prevention systems. This course also includes advanced print reading.

A-CON 102B - Medical Gas and Installation - Units 0

Limitations on Enrollment: Apprenticeship.

This course is designed to provide students with knowledge of the fundamentals of medical gas system fabrication including pipe fitting, brazing, system testing, and certification.

Culinary Arts

CUL ART 001 - Introduction to Hospitality Industry - Units 2

This course is an introduction to the organization and structure of hotel, restaurants, and clubs. Students will also be introduced to the importance of industry contacts, resume writing, time management, and will perform a hospitality occupational interview. The student will receive an overview pertaining to forces that shape the hospitality industry, tourism, destinations, and how they interact with the hospitality industry, related businesses that serve the traveler, how services affect the industry, managing and working in the international market, and what the future holds for the industry.

CUL ART 003 - Sanitation and Safety - Units 2

This course is an introduction to the basic principles of hygiene and the application of these principles to food service operations. Safety elements in food service planning, description of maintenance, operation of appropriate food service equipment, and Occupational Safety and Health Administration (OSHA) regulations are included. Emphasis is placed on the supervisor's responsibilities in maintaining high sanitation and safety standards. (CSU)

CUL ART 004 - Food and Beverage Cost Technologies - Units 2

Advisories: MATH-076 with a grade of "C" or better.

This course is designed to enable the student to study food, beverage, and labor cost controls. The student learns recipe conversions, menu pricing, and food and labor cost percentages. A working knowledge of culinary mathematics as it applies directly to food cost analysis is stressed as well as the necessary mathematics proficiency required to function effectively in the foodservice industry. (CSU)

CUL ART 005 - Commercial Food Preparation - Units 4

Advisories: CUL ART-003 with a grade of "C" or better or ServSafe Managers Certificate.

This course is designed to explore the theory of basic commercial food production techniques and applications. The students develop skills in knife, tool, and equipment operation and apply principles of food preparation to produce a variety of food products. Students are involved in meal production and rotate through commercial foodservice job stations. (CSU)

CUL ART 007 - Baking - Units 3

Prerequisite Skills: Advisory: Reading Level II.

Advisories: CUL ART-003 with a grade of "C" or better or ServSafe Managers Certificate.

This course is designed to provide the student with the basic skills that are involved in dessert and bread production from formulas used in quantity food service. Care and use of bakeshop equipment are included. (CSU)

CUL ART 008 - European Pastry Production - Units 4

Prerequisites: CUL ART-007 Baking with a grade of "C" or better.

Advisories: CUL ART-003 with a grade of "C" or better or ServSafe Managers Certificate.

This course is designed to enable the student to prepare European style pastries including cheesecakes, individual cakes, tortes and tarts. The student develops skills in the production of fine pastry such as tea cookies, petit fours, and individually plated desserts. Specialty breads are produced. (CSU)

CUL ART 009 - Restaurant Operations - Units 9

Prerequisites: CUL ART 003, Sanitation and Safety, and CUL ART 005, Commercial Food Preparation, with a grade of "C" or better.

Corequisites: CUL ART 005, Commercial Food Preparation.

This course is designed to enable the student to serve food in an a la carte restaurant. The student gains experience and practices in the business of restaurant operations during performance of cooking and serving in the campus restaurant and catered events. The student performs dining room service using a variety of types of service. The student learns to operate a point of sale computer. (CSU)

CUL ART 011 - Menu Planning - Units 1.5

Prerequisite Skills: 1. Level 2 on the Math Placement Test.

This course is designed to summarize the basic principles of menu planning and layout for various foodservice operations. Factors considered are nutritional adequacy, economic requirements, types of operations, skill of personnel, clientele, and equipment. (CSU)

CUL ART 013 - Purchasing and Receiving - Units 1.5

This course is designed to survey purchasing and receiving practices in commercial food service operations. The course includes the writing of specifications, standards and grades of food. Analysis of food quality and the factors influencing pricing are included. This course utilizes the Etudes learning platform for online homework assignments. (CSU)

CUL ART 015 - Selected Topics: Culinary Arts - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of culinary arts not already covered by existing curricula. (CSU)

CUL ART 016 - Gastronomies of the World - Units 3

This course is an exploration of the gastronomies of the world, the art or science of good eating, and the styles of cooking as they apply to a particular region. Cuisines from around the world in the context of cultural, social, and historical perspectives are presented. Emphasis is on cultural contrast that reflects the ethnic culinology of different countries. The student develops an understanding of ethnic gastronomy in today's multi-cultural society and its significance and influence on American culture. (CSU)

CUL ART 019 - Kitchen Management - Units 9

Prerequisites: CUL ART-009 Restaurant Operations with a grade of "C" or better.

This course is designed to examine advanced principles of preparation of foods served in hotels and restaurants. The student gains experience in quantity food preparation while working in the Student Chef. Career options are explored. (CSU)

CUL ART 025 - Food Service Management - Units 2

This course is designed to enable the student to study the principles of managing all types of commercial and institutional food service. Areas such as human resources, legal aspects, and labor-management relations are covered. Styles of leadership and problem solving are evaluated. Human relations and personnel management skills are discussed. (CSU)

CUL ART 029 - Beverage Management - Units 1.5

This course is a study of beverages, both alcoholic and non-alcoholic, used in the food service industry. Topics include: beverage composition, production methods and regions, quality, characteristics, uses in drinks and food, beverage service; wine analysis, service and pairing with food; government regulations and licenses. Alternative meetings off campus may be required.

CUL ART 050H - Special Studies: Culinary Arts - Units 1-2

Prerequisites: CUL ART-001 Introduction to Hospitality Industry or CUL ART-003 Sanitation and Safety or CUL ART-004 Food and Beverage Cost Technologies or CUL ART-005 Commercial Food Preparation or CUL ART-007 Baking each with a grade of "C" or better.

This course is open to the student who is qualified to do advanced work in the field of culinary arts. The course includes research, directed reading, field work, or other advanced study. (CSU)

CUL ART 071 - Plated Desserts - Units 4

Prerequisites: CUL ART-007 Baking and CUL ART-008 European Pastry Production each with a grade of "C" or better.

This course is designed to give the student repeated opportunities in plated desserts design and components of desserts including, but not limited to, chocolate tempering, template manufacturing, various tuelles, frozen desserts, cake layers, sauces, sugar garnishes, mousses, and curds.

CUL ART 072 - Retail Bakery Management - Units 3

Prerequisites: CUL ART-007 Baking and CUL ART-008 European Pastry Production each with a grade of "C" or better.

This course is designed to enable the student to manage a retail bakery. The student learns seasonal and specialty production planning for a retail bakery. The student develops skills in financial management of a bakery.

CUL ART 073 - Garde Manger - Units 1.5

Prerequisites: CUL ART-005 Commercial Food Preparation and CUL ART-003 Sanitation and Safety each with a grade of "C" or better or Serv Safe Certificate.

This course blends aesthetic and practical aspects of cold food in different applications, including platter, plated, and buffet presentations. Cold food preparation and presentation including appetizers, canapes, salads, hors d'oeuvre, brining, curing and smoking will be discussed. The design principles, techniques, and preparation of fruit and vegetable garnishes will be included.

CUL ART 080 - Selected Topics: Culinary Arts - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of culinary arts not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

CUL ART 082 - Garnishing and Food Presentation - Units 0.5

Prerequisites: CUL ART-005 Commercial Food Preparation and CUL ART-027 Garde Manger each with a grade of "C" or better or.

Corequisites: CUL ART-027 Garde Manger.

This course is designed to address the design principles and preparation of fruit and vegetable garnishes used to enhance plate and platter presentations of food. A variety of garnishing techniques are discussed. Centerpiece preparation to enhance the presentation of foods is covered.

CUL ART 093V - Work Experience: Culinary Arts - Units 1-8

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: CUL ART-003 GUID-030 GUID-031 GUID-032 GUID-033 each with a grade of "C" or better.

This course is designed for the student employed in the area of culinary arts. The course objectives are developed by the students in consultation with his or her supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor.

Dance**DANCE 002 - Selected Topics: Dance - Units 0.5-4**

This course is designed to offer instruction in one of the specialized areas of dance not already covered by existing curricula. (CSU)

DANCE 003 - Choreography - Units 2

Corequisites: DANCE-005 Dance Production: Repertory Company or DANCE-006A Ballet I or DANCE-006B Ballet II or DANCE-007A Ballet III or DANCE-007B Ballet IV or DANCE-010A Modern Dance I or DANCE-010B Modern Dance II or DANCE-011A Modern Dance III or DANCE-011B Modern Dance IV or DANCE-012A Jazz Dance I or DANCE-012B Jazz Dance II or DANCE-013A Jazz Dance III or DANCE-013B Jazz Dance IV.

Limitations on Enrollment: Qualified Performer.

This course is an introduction to choreography through a series of problem solving activities. Choreographic process and application will be introduced to assist in the development of dance composition. (UC, CSU)

DANCE 004 - Choreography - Units 2

Prerequisites: DANCE-003 Choreography with a grade of "C" or better.

This course is designed to study the intermediate and advanced elements of choreography. Short studies in dance composition in relation to musical and dramatic forms are presented. Lectures, discussions, and demonstrations are included. Practical application through class projects plus college and community performances directed by the student are presented. This course maybe taken four times. (UC, CSU)

DANCE 005A - Dance Production: Repertory Company I - Units 3

This course is an introduction to group dance experiences through rehearsal, performance, dance technique training and technical theater practice. (UC, CSU)

DANCE 005B - Dance Production: Repertory Company II - Units 3

Prerequisites: DANCE 005A, Dance Production: Repertory Production, with a minimum grade of "C" or better.

This is a continuing introduction course to group dance experiences through rehearsals, performances, dance technique training, technical theater practices and performance skills such as dance etiquette, quick pick up of choreography or stage presence. (CSU, UC)

DANCE 005C - Dance Production: Repertory Company III - Units 3

Prerequisites: DANCE 005B, Dance Production: Repertory Production, with a minimum grade of "C" or better.

This is an intermediate dance production course involving group dance experiences through rehearsal, performance, dance technique training and technical theater practice. It introduces the concept of composing a choreography. (CSU, UC)

DANCE 005D - Dance Production: Repertory Company IV - Units 3

Prerequisites: DANCE 005C, Dance Production: Repertory Production, with a minimum grade of "C" or better.

This is an advanced dance production level course involving dance collaboration, rehearsals, performances, dance technique training and technical theater practice such as, staging, lighting, design, costume and make up. It presents the opportunity to choreograph, collaborate in creation dances and develop improvisation techniques. The focus is placed on fostering the emerging dance artist (CSU,UC).

DANCE 006A - Ballet I - Units 2

Limitations on Enrollment: Qualified Performer.

This course is designed to introduce the fundamental theory and practice of ballet techniques. Emphasis is placed on placement, body alignment, muscular control, and the development of vocabulary of basic ballet positions and steps. This course also offers a study of Ballet history from the 1600 to current days. (UC, CSU)

DANCE 006B - Ballet II - Units 2

Prerequisites: DANCE-006A Ballet I with a grade of "C" or better.

This course is continuation of the fundamental theory and practice of ballet techniques. Emphasis is placed on placement, body alignment, muscular control, and the development of vocabulary of basic ballet positions and steps. This course also offers a study of Ballet history from the 1600 to nowadays. (UC, CSU)

DANCE 007A - Ballet III - Units 2

Prerequisites: DANCE-006B Ballet II with a grade of "C" or better.

This course is a review of the fundamental theory and practice of classical ballet and an introduction to intermediate level. Combinations are stressed. (UC, CSU)

DANCE 007B - Ballet IV - Units 2

Prerequisites: DANCE-007A Ballet III with a grade of "C" or better.

This course is a review of the intermediate theory and practice of classical Ballet and an introduction to advanced level. A strong

emphasis is placed on stylization and performance. Technique for basic beginning pointe work may be introduced. (UC, CSU)

DANCE 010A - Modern Dance I - Units 2

Limitations on Enrollment: Qualified Performer.

This course explores the fundamentals structure and technique of Modern Dance. It also emphasizes on body control, conditioning, strengthening, and flexibility. An overview Modern dance history is introduced. (UC, CSU)

DANCE 010B - Modern Dance II - Units 2

Prerequisites: DANCE 010A, Modern Dance with a grade of "C" or better.

This course reviews and expands the concepts of dynamics, space and the use of the body in Modern Dance. It also introduces the concept of gravity, time and use of breath. This course lays the stress on body control, conditioning, strengthening and flexibility. An overview of Modern dance history is studied.(UC, CSU)

DANCE 011A - Modern Dance III - Units 2

Prerequisites: DANCE-010B Modern Dance II with a grade of "C" or better.

This course is a study of intermediate dance techniques and patterns in Modern dance. Creative dances are practiced with the express purpose of establishing individual and group choreographies for public performances. (UC, CSU)

DANCE 011B - Modern Dance IV - Units 2

Prerequisites: DANCE-011A Modern Dance III with a grade of "C" or better.

This course is a study of high intermediate and advanced dance skills and techniques in Modern dance. Creative dances are practiced with the express purpose of establishing individual and group dances for public performances. Performance skills and stylization are highly stressed. (UC, CSU)

DANCE 012A - Jazz Dance I - Units 2

Limitations on Enrollment: Qualified Performer.

This course is an introduction to standard beginners Jazz dance with emphasis placed on anatomy, primary stretches, isolations, port de bras, terminology and fundamental Jazz combinations. The course also offers an overview of jazz history and its cultural influence. (UC, CSU)

DANCE 012B - Jazz Dance II - Units 2

Prerequisites: DANCE-012A Jazz Dance I with a grade of "C" or better.

This course is a continuation of beginning skills and techniques in Jazz. Various styles of Jazz is studied. Emphasis is placed on body control, alignment, rhythms, combinations and terminology. The course also offers an overview of Jazz history and its cultural influence. (UC, CSU)

DANCE 013A - Jazz Dance III - Units 2

Prerequisites: DANCE-012B Jazz Dance II with a grade of "C" or better.

This course is designed to provide further opportunities to extend the student's knowledge of Jazz dance, and to acquire techniques and skills at intermediate level. (UC, CSU)

DANCE 013B - Jazz Dance IV - Units 2

Prerequisites: DANCE-013A Jazz Dance III with a grade of "C" or better.

This course is designed to provide further opportunities to extend the student's knowledge of various styles of Jazz dance, and to

acquire techniques and skills at a high intermediate and advanced level. (UC, CSU)

DANCE 020A - Theatre Dance and Movement I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is an introduction to the study of the role of choreographed dance and the development of skills, techniques, styles and body agility necessary for participation in theater productions. (UC, CSU)

DANCE 020B - Theatre Dance and Movement II - Units 1

Prerequisites: DANCE-020A Theatre Dance and Movement I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is the continuing study of the role of theater choreographed dance. Refining the development of skills, techniques and body agility necessary for participation in theater productions. Introduction to more combination progressively advanced stylistically and technically. (UC, CSU)

DANCE 020C - Theatre Dance and Movement III - Units 1

Prerequisites: DANCE-020B Theatre Dance and Movement II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course further develops dance skills, technique & movements in a variety of theater dance styles. Dance sequences, and stories related to characters are introduced for rehearsals and performances. (UC, CSU)

DANCE 020D - Theatre Dance and Movement IV - Units 1

Prerequisites: DANCE-020C Theatre Dance and Movement III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is the continuation of dance skills, techniques development at an advanced level. Emphasis is placed on style, expression and presence and the learning of new Dance theater materials for rehearsal and performances. (UC, CSU)

DANCE 029 - Dance Appreciation - Units 3

Prerequisites: Reading level II.

This course is a brief study of dance history that examines dance and its artistic, social, historical and cultural contexts. Ballet, American modes of expression (such as modern and jazz forms), and other contemporary theatrical dance genres are explored. (CSU, UC)

DANCE 030 - Introduction to Dance - Units 2

This course is designed to introduce the fundamentals of dance. Students will be acquainted with various dance forms, movements, techniques and skills (Ballet, Jazz, Modern, Ethnic and Social dance). Students will also be exposed to the historical context of dance. (CSU, UC)

DANCE 035A - African-Caribbean Dance I - Units 3

This course is an introduction to the study of African and Caribbean dances. It introduces dance as a vehicle for cultural, historical and religious functions in the Caribbean through the lens of anthropologist, Katherine Dunham. Students will explore Caribbean dances with strong roots in the African culture, connections to black dance in North America and train in Dunham dance technique (CSU).

DANCE 035B - African-Caribbean Dance II - Units 2

Prerequisites: DANCE-035A African-Caribbean Dance I with a grade of "C" or better.

This course is a continuation of the study of African and Caribbean dances. It emphasizes the role of dance in African culture, its connections to Voodoo and to Katherine Dunham's

technique. Emphasis is also placed on polyrhythmic patterns as well as developing alignment, and muscular control. This course also introduces African and Caribbean movement aesthetics. (CSU)

DANCE 035C - Intermediate African-Caribbean Dance III - Units 2

Prerequisites: DANCE-035B African-Caribbean Dance II with a grade of "C" or better.

This course is a study of intermediate African Caribbean dance techniques and patterns in the Caribbean. Creative dances are practiced with the express purpose of establishing individual and group choreographies for public performances. Emphasis will be placed on comparing and contrasting the original African dance form to the Caribbean one. (CSU)

DANCE 035D - Advanced African-Caribbean Dance IV - Units 2

Prerequisites: DANCE-035C Intermediate African-Caribbean Dance III with a grade of "C" or better.

This course is a study of high advanced dance skills and techniques in African Caribbean dance. Creative dances are practiced with the express purpose of establishing individual and group dances for public performances. Performance skills and stylization are highly stressed. (CSU)

DANCE 036A - Hip Hop - Units 2

This course introduces students to basic skills and technique of Hip Hop dance styles. Students will learn, explore dance combinations using a variety of popular music. This course also offers a study of the cultural and social expression of Hip Hop. (CSU, UC)

DANCE 036B - Hip Hop Dance - Units 2

Prerequisites: DANCE 036, Hip Hop, with a grade of "C" or better.

This course continues the exploration of Hip Hop dance techniques and styles - both historical and current. Emphasis will be placed on musicality, rhythms, and basic movements required to develop performance skills. (CSU)

DANCE 037A - West African Dance I - Units 2

This course is an introduction to West African dance. Through dance movements, chants, and story-telling students will be immersed in and have an understanding of poly-rhythmic movements, aesthetics diversity, and societal purpose of dance. Students will also explore the traditions, values system, and history of West African cultures. (CSU)

DANCE 037B - West African Dance II - Units 2

Prerequisites: DANCE-037A West African Dance I with a grade of "C" or better.

This course is a continuation to West African dance. It reviews and expands the concept of West African dance and culture, history, value systems and impact on the society. Students will explore the connection of dance and religion. Emphasis is also placed on polyrhythmic movements, body control, conditioning. (CSU)

DANCE 037C - Intermediate West African Dance III - Units 2

Prerequisites: DANCE-037B West African Dance II with a grade of "C" or better.

This course is a study of intermediate West African dance techniques. Creative dances are practiced with the express purpose of establishing individual and group choreographies for public performances. Emphasis is placed on styles. African dance influences within the diaspora will be explored. (CSU)

DANCE 037D - Advanced West African Dance IV - Units 2

Prerequisites: DANCE-037C Intermediate West African Dance III with a grade of "C" or better.

This course is a study of high intermediate and advanced dance skills and techniques in West African dance. Creative dances are practiced with the express purpose of establishing individual and group dances for public performances. Performance skills and stylization are highly stressed. (UC, CSU)

DANCE 040A - Yoga I - Units 1

This course is an introduction to Hatha yoga theory and practices. The focus is on developing clear, basic and safe alignment in foundational poses, movements correctness and sequencing. Flexibility and strength core exercises are introduced. (UC, CSU)

DANCE 040B - Yoga II - Units 1

Prerequisites: DANCE-040A, Yoga I, with a grade of "C" or better.

This course is a continuation to Hatha yoga theory and practices. The focus is to keep on developing clear, and safe alignment in Hatha yoga poses, movements correctness and sequencing. Included are intermediate core strength, resistive and flexibility exercises. (UC, CSU)

DANCE 040C - Yoga III - Units 1

Prerequisites: DANCE-040B, Yoga II, with a grade of "C" or better.

This is an intermediate yoga level course. Emphasis is placed on meditation practice and more complex breathing techniques. Complex intermediate level poses are introduced involving deep core muscles. Flexibility and balance are also integrated in numerous postures and variations. (UC, CSU)

DANCE 040D - Yoga IV - Units 1

Prerequisites: DANCE-040C, Yoga III, with a grade of "C" or better.

This is a continuation for Yoga III to advanced level. It is an in-depth yoga course. Students gain a more in-depth knowledge of yoga as well as a deeper insight into the different types of yoga and their philosophies of the practice. Emphasis is placed on increasing flexibility and strength; and introducing more advanced poses and variations. (UC, CSU)

DANCE 041A - Pilates I - Units 1

This course is an introduction to Pilates Mat work with an emphasis on body/mind awareness, flexibility, core strength and efficiency of movement. Pilates leads to improved performance in all dance techniques, athletics and fitness. (UC, CSU)

DANCE 041B - Pilates II - Units 1

Prerequisites: DANCE-041A, Pilates I, with a grade of "C" or better.

This course is a continuation of Pilates I. Offered to students with limited previous experience, this course reviews the basic concepts of Pilates and keeps the focus on body awareness, flexibility, core strength and efficiency of movement. (UC, CSU)

DANCE 041C - Pilates III - Units 1

Prerequisites: DANCE-041B, Pilates II, with a grade of "C" or better.

This course is for the intermediate level. It introduces an intermediate level repertoire that focuses on building up a strong core muscles, alignment and the efficiency of movement (cadence and rhythm on a mat). In addition, this course strengthens the body and mind interaction. (UC, CSU)

DANCE 041D - Pilates IV - Units 1

Prerequisites: DANCE-041C, Pilates III, with a grade of "C" or better.

This course is a continuation of Pilates III. It introduces an advanced level of Pilates activities and repertoire. It emphasizes on precision, efficiency and body awareness. (UC, CSU)

DANCE 050H - Special Studies: Dance - Units 1-2

Prerequisites: DANCE-007B Ballet IV or DANCE-011B Modern Dance IV or DANCE-013B Jazz Dance IV each with a grade of "C" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is open to all the student qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

DANCE 075 - Selected Topics: Dance - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Dance not already covered by the existing curriculum.

Developmental Education

DV ED 120 - Tutorial Assistance - Units 0

This course is designed to provide tutoring support for students enrolled in regular classes. The course offers one hour of tutoring for each course unit. Tutoring is provided with special attention to learning styles, study skills such as notetaking, textbook reading, problem solving, and test-taking. Students are provided computer access. The course goal is to help the student become a self-sufficient, independent learner.

Diesel Technology

DIESL 075 - Selected Topics: Diesel Technology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Diesel Technology not already covered by the existing curriculum.

DIESL 087A - Diesel Specialization - Units 1.5

Prerequisites: DIESL-091 Heavy Duty Brakes or DIESL-094 Diesel Engine Principles each with a grade of "C" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is designed for the advanced student in diesel technology. The student completes an advanced specialized project developed in consultation with the instructor.

DIESL 087B - Diesel Specialization - Units 3

Prerequisites: DIESL-091 Heavy Duty Brakes or DIESL-094 Diesel Engine Principles each with a grade of "C" or better.

This course is designed for the advanced student in diesel technology. The student completes an advanced specialized project developed in consultation with the instructor.

DIESL 091 - Heavy Duty Brakes - Units 3

This course is designed to provide technical information and to develop skill in working on air brake systems. Basic instruction is provided through practical work on truck brake systems and related mock-ups in preparation for employment in the truck and diesel industry.

DIESL 092 - Heavy Duty Power Trains - Units 3.5

This course is designed to provide technical information and to develop skills in working on transmissions and clutches. Basic and advanced instruction is provided through practical work on truck transmissions and clutches used in today's modern trucks in preparation for employment in the truck and diesel industry.

DIESL 093 - Heavy Duty Truck Components - Units 3

This course is designed to provide technical information and to develop skills in working on differentials, steering systems, and suspension systems. Basic and advanced instruction is provided through practical work on truck components used in today's modern truck in preparation for employment in the truck and diesel industry.

DIESL 094 - Diesel Engine Principles - Units 3

This course is designed to provide technical information and to develop skills in working on engines and vehicle maintenance. Basic instruction is provided through practical work on diesel engines and related mock-ups in the preparation for employment in the truck and diesel industry.

DIESL 095 - Diesel Engine Repair - Units 4.5

Prerequisites: DIESL-094 Diesel Engine Principles with a grade of "C" or better.

Corequisites: DIESL-094 Diesel Engine Principles.

This course is designed to prepare the student to repair and replace components on diesel engines. The course provides advanced technical information addressing complete overhaul and testing of diesel engines used in different makes of trucks.

DIESL 096 - Diesel Engine Fuel and Tune-Up - Units 3

This course is designed to provide technical information and to develop skills in working on diesel fuel systems. Basic and advanced instruction is provided through practical work on diesel fuel pumps, injectors and engines in preparation for employment in the truck and diesel industry.

DIESL 097 - Diesel Air Conditioning - Units 2

This course is designed to provide technical information and to develop skills in working on diesel air conditioning systems. The course provides basic and advanced instruction through practical work on components used in today's modern equipment.

DIESL 098 - Allison Transmission Service - Units 2

This course is designed to provide technical information and develop skills in working on Allison automatic transmissions. Basic and advanced instruction is provided through practical work on Allison transmissions used in today's modern trucks, buses, and recreational vehicles.

DIESL 098V - Work Experience: Diesel Mechanics - Units 1-4

Limitations on Enrollment: The student must enroll in a course that is directly related to the construction technology internship. The student must officially enroll in a Delta College course during the participating semester. The combined total number of units a student may take in work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of Work Experience program objectives and an employer Work Experience agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational work experience in diesel mechanics. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the

supervision of a worksite supervisor and a college work experience instructor.

DIESL 099 - Computer Diagnosis and Troubleshooting - Units 2

This course is designed to provide technical information and to develop skills in working on diesel engine electronic controls. The operation, construction, and service procedures on various manufacturers in electronic fuel systems used in today's modern trucks is included.

Dramatic Arts**DRAMA 005 - Selected Topics: Drama - Units 1-4**

This course is designed to offer instruction in one of the specialized areas of drama not already covered by existing curricula. (CSU)

DRAMA 006A - Improvisational Theatre I - Units 3

This course is designed as an introduction to theatre games and improvisational techniques. The student will examine and explore non-scripted creative expression and interaction. The course will culminate in an improvisational performance technique known as "long form improv", performed for an invited audience. (CSU)

DRAMA 006B - Improvisational Theatre II - Units 3

Prerequisites: DRAMA-006A Improvisational Theatre I with a grade of "C" or better.

This course is designed as a continued study of theatre games and improvisational techniques. The student will continue to examine and explore non-scripted creative expression and interaction. The course will culminate in an improvisational performance technique known as "long form improv", performed for an invited audience. (CSU)

DRAMA 010 - Introduction to Theatre - Units 3

Advisories: Reading level II.

This course is a survey course focusing on the relationship of theatre to various cultures throughout history, and the contributions of significant individual artists. This course introduces students to elements of the production process including playwriting, acting, directing, design, and criticism. Periods, styles, and genres of theatre will be explored through play reading, discussion, and viewing and critiquing live theatre, including required attendance of theatre productions. (UC, CSU)

DRAMA 015 - Make-Up for the Theatre - Units 3

This course is designed to provide study of the theory and techniques of make-up for the theatre. Topics included are straight, age, and character make-up, beard construction, and special effects. Laboratory sessions and work on a make-up crew for college productions or a special project are required. (UC, CSU, C-ID THTR 175)

DRAMA 016A - History of Theatre: Primitive to the 18th Century - Units 3

Advisories: Reading level II.

This course is designed to introduce the physical structure, representative plays, practices, and theatre traditions from primitive times to the 18th century. (UC, CSU)

DRAMA 016B - History of Theatre: 18th Century to Present - Units 3

Prerequisite Skills: 1. Advisory Reading Level II.

This course is designed to introduce the scenic styles, theatre architecture, representative plays, practices and theatre traditions from the 18th century to the present in Europe and America.

Influences derived from the Asian theatre are also included. (UC, CSU)

DRAMA 019A - Technical Theatre I - Units 4

Prerequisite Skills: 1. *Advisory: Reading Level II.*

This course is an introductory lecture, demonstration and laboratory experience focusing on stage scenery production. An introduction to stage costume, lighting, and sound production are also included. Participation on construction crews for Theatre Arts productions is required. (UC, CSU, C-ID THTR 171)

DRAMA 019B - Technical Theatre II - Units 4

Prerequisites: DRAMA-019A Technical Theatre I with a grade of "C" or better.

This course is a survey of stagecraft design, stagecraft research techniques, and stagecraft production organization as it pertains to scenery, lighting, sound, and costuming. Students study the aesthetics, practical applications, and the principles of set, sound, lighting, and costume production as it applies to the theatre performance. Participation in backstage crews for Theatre Arts productions is required. (UC, CSU, C-ID THTR 172)

DRAMA 020 - Scenic Painting - Units 3

Advisories: DRAMA-019A with a grade of "C" or better.

This course is an introductory course in scenic painting. The course focuses on the tools, materials, and techniques of the scenic artist for live theatre. (CSU)

DRAMA 021 - Stage Sound - Units 3

Advisories: DRAMA-019A with a grade of "C" or better.

This course is an introduction to theatrical sound design and engineering. The course introduces the theory and practice of sound design and engineering and practical experience with a wide variety of sound equipment. (CSU)

DRAMA 022 - Stage Lighting - Units 3

Advisories: DRAMA-019A with a grade of "C" or better.

This course is an introductory course in stage lighting for live theatrical production. Stage lighting technology and lighting design principles are explored. Practical application of lighting principles is emphasized. (CSU, UC, C-ID 173)

DRAMA 023 - Stage Costume - Units 3

Advisories: DRAMA-019A with a grade of "C" or better.

This course is study in costume design and production and its practical application to drama production. Emphasis will be placed on costume construction and production organization, using hands-on activity in support of workshop productions. (CSU, UC, C-ID THTR 174)

DRAMA 024 - Scenic Construction - Units 3

Advisories: DRAMA-019A with a grade of "C" or better.

This course is an intermediate course in scenic construction. Students study tools, materials, and techniques used in the construction of scenery for live theatrical performance. Emphasis is placed on traditional construction techniques using wood, metal, and plastics. (CSU)

DRAMA 025A - Theatre Production: Acting - Units 3

Limitations on Enrollment: Qualified Performer.

This course is rehearsal and performance for public presentation. Emphasis is placed on individual initiative, dependability, development, and participation. (UC, CSU, C-ID THTR 191)

DRAMA 025B - Theatre Production: Crew - Units 1-3

Limitations on Enrollment: Qualified Performer.

This course is a laboratory in rehearsal, performance and production crew work, with emphasis placed on solving the problems of production by preparing plays for public performance. (UC, CSU, C-ID THTR 192)

DRAMA 027A - Repertory Workshop: Acting I - Units 2

Limitations on Enrollment: Qualified Performer.

This is a beginning course in rehearsal and performance of one or more workshop productions. Emphasis is placed on solving the problems of acting in a live production, such as character development. (CSU, UC)

DRAMA 027B - Repertory Workshop: Acting II - Units 2

Prerequisites: DRAMA-027A Repertory Workshop: Acting I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an intermediate course in rehearsal and performance of one or more workshop productions. Emphasis is placed on solving the problems of acting in a live production. (CSU, UC)

DRAMA 027C - Repertory Workshop: Acting III - Units 2

Prerequisites: DRAMA-027B Repertory Workshop: Acting II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an advanced intermediate course in rehearsal and performance of one or more workshop productions. Emphasis is placed on solving the problems of acting in a live production. (CSU, UC)

DRAMA 027D - Repertory Workshop: Acting IV - Units 2

Prerequisites: DRAMA-027C Repertory Workshop: Acting III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an advanced course in rehearsal and performance of one or more workshop productions. Emphasis is placed on solving the problems of acting in a live production. (CSU, UC)

DRAMA 029A - Repertory Workshop: Crew I - Units 1-2

Limitations on Enrollment: Qualified Performer.

This is a beginning course rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of small cast plays or one-acts for public performance. Which may include stage and production crew duties such as stagehand, wardrobe crew, carpenter, electrician, etc. (UC, CSU)

DRAMA 029B - Repertory Workshop: Crew II - Units 1-2

Prerequisites: DRAMA-029A Repertory Workshop: Crew I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an intermediate course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of small cast plays or one-acts for public performance. Which may include stage and production crew duties such as light/sound operator, flyman, followspot operator, etc. (CSU, UC)

DRAMA 029C - Repertory Workshop: Crew III - Units 1-2

Prerequisites: DRAMA-029B Repertory Workshop: Crew II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an advanced intermediate course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of small cast plays or one-acts for public performance. Which may include stage and

production crew duties such as deck manager, assistant master electrician, wardrobe crew head, etc. (CSU, UC)

DRAMA 029D - Repertory Workshop: Crew IV - Units 1-2

Prerequisites: DRAMA-029C Repertory Workshop: Crew III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This is an advanced course in rehearsal, performance, and crew work where emphasis is placed on solving the problems of production by preparation of small cast plays or one-acts for public performance. Which may include stage and production crew duties such as stage manager, scenic designer, lighting designer, costume designer. (CSU, UC)

DRAMA 031 - Introduction to Acting - Units 3

This course is designed to introduce basic principles of acting including ensemble interaction, character study, expressive dynamics, and the rehearsal process. The student will examine an integration of theatre games, exercises, improvisation, and scene study culminating in a final presentation of a partner scene. (UC, CSU, C-ID THTR 151)

DRAMA 032 - Voice and Speech for the Actor - Units 2

Development of voice and speech to strengthen, support, and vary the quality of the voice through practice of basic relaxation techniques, breathe, resonance, articulation, and projection. The course focuses on pitch, stress, rate, quality, and inflection through a variety of material and the uses of the International Phonetic Alphabet (IPA-narrow transcription) to enhance clarity of speech on stage. (CSU)

DRAMA 033 - Movement for the Actor - Units 2

This course provides foundations, principles, and exercises designed to aid the actor's exploration of the body as the core instrument and mode of expression. Actors will work with body alignment in order to create a neutral palate for the actor's work to begin. Techniques explored will include: Viewpoints, mask, dance, gesture, and psycho-physical acting. (CSU)

DRAMA 034 - Styles of Acting - Units 3

Prerequisites: DRAMA-031, Introduction to Acting, with a grade of "C" or better.

This course is designed as a styles of acting course. It may include classic Greek, Elizabethan (Shakespearean), Restoration, and comedy of Moliere, and 19th century melodrama. Students will prepare scenes in the chosen period styles with emphasis on speech, manners and movements. (CSU)

DRAMA 035 - Classical and Shakespearean Acting - Units 3

Prerequisites: DRAMA-031, Introduction to Acting, with a grade of "C" or better.

This course is a continued exploration of the theories and techniques used in preparation for the interpretation of drama through acting. Emphasis will be placed on deepening the understanding of the acting process through textual and character analysis, monologues, and scenes using Shakespearean and other classical texts. The student will examine the approach to structure and meter of verse as well as the voice and movement needs to demystify the approach to styles of acting used in classical theatre from the Greeks through the Restoration. (CSU)

DRAMA 038 - Acting for the Camera - Units 3

Prerequisites: DRAMA-031, Introduction to Acting, with a grade of "C" or better.

This course is designed to examine the skills and techniques necessary for acting in the film and television media. Studies include camera orientation and terminology, on-camera scene

study, monologues, improvisation, and acting for commercials. (UC, CSU)

DRAMA 039 - Principles of Directing - Units 3

Prerequisites: DRAMA-031, Introduction to Acting, with a grade of "C" or better.

This course is designed to introduce basic principles of directing including the preparation of a play script from the first reading, through casting, rehearsals, and performance. The student will examine the basic function of the stage director as emphasis will be placed on theory of directing as well as on its practical application for the stage. (CSU)

DRAMA 040A - Technical Theatre Portfolio I - Units 1

Prerequisites: DRAMA-019A Technical Theatre I with a grade of "C" or better.

Corequisites: DRAMA-019A Technical Theatre I.

This course is an introductory course in the development of the technical theatre portfolio. Emphasis is placed on the creation and documentation of portfolio projects. (CSU)

DRAMA 040B - Technical Theatre Portfolio II - Units 1

Prerequisites: DRAMA-040A Technical Theatre Portfolio I with a grade of "C" or better.

This course is an intermediate course in the development of the technical theatre portfolio. Emphasis is placed on the creation and documentation of portfolio projects, and the process of seeking employment in technical theatre. (CSU)

DRAMA 040C - Technical Theatre Portfolio III - Units 1

Prerequisites: DRAMA-040B Technical Theatre Portfolio II with a grade of "C" or better.

This course is an advanced intermediate course in the development of the technical theatre portfolio. The course focuses on the creation, documentation and critique of portfolio projects, and the process of seeking employment in technical theatre. (CSU)

DRAMA 040D - Technical Theatre Portfolio IV - Units 1

Prerequisites: DRAMA-040C Technical Theatre Portfolio III with a grade of "C" or better.

This course is an advanced course in the development of the technical theatre portfolio. Emphasis is placed on the development, documentation, and critique of portfolio projects, and the job application and interview process for technical theatre. (CSU)

DRAMA 041 - The Business of Acting: Audition Techniques and Career Development - Units 2

Prerequisites: DRAMA-032, Voice and Speech for the Actor, with a grade of "C" or better or concurrent enrollment; DRAMA-033, Movement for the Actor, with a grade of "C" or better or concurrent enrollment; and DRAMA-035, Classical and Shakespearean Acting, with a grade of "C" or better or concurrent enrollment.

This course will cover the elements of auditioning techniques for college, community, and professional theatre auditions and will include: monologue selection and styles, cold reading, actor's preparation, research, resume development, interviewing skills and practical application of acting techniques for audition purposes. Students will be exposed to a variety of professionals from the theatrical and film world and will learn how to create a portfolio of audition material. (CSU)

DRAMA 044A - Traditional Theatre Production: Acting - Units 3

Limitations on Enrollment: Qualified Performer.

This course is an introduction to play selection and production for a traditional theatre audience. It includes acting, stage movement, rehearsal and public performance. (CSU, C-ID THTR 191)

DRAMA 044B - Traditional Theatre Production: Crew - Units 1-3

Limitations on Enrollment: Qualified Performer.

This course is a beginning course in rehearsal, performance, and production crew work where emphasis is placed on solving the problems of production by preparation of public performance for a traditional theatre audience. (CSU, C-ID THTR 192)

DRAMA 047A - Musical Theatre Production: Acting - Units 3

Limitations on Enrollment: Qualified Performer.

This course is designed to teach the student how to perform in the genre of musical theatre. Emphasis is placed on learning how to make believable transitions in characterizations from acting, to singing, and to dancing. History and styles of musicals are included. The course is not designed to teach the basic elements of acting, singing, or dancing, but rather how to coordinate them. (UC, CSU, C-ID THTR 191)

DRAMA 047B - Musical Theatre Production: Crew - Units 1-3

Limitations on Enrollment: Qualified Performer.

This course is a beginning course in rehearsal, performance, and production crew work where emphasis is placed on solving the problems of musical theatre production by preparation of public performance. (UC, CSU, C-ID THTR 192)

DRAMA 050A - Special Studies: Drama - Units 1-2

Prerequisites: DRAMA-001A Actor's Studio I or DRAMA-019A Technical Theatre I each with a grade of "C" or better.

This course is designed so a qualified student may do advanced work in drama. The course includes research, directed reading, field work, or other advanced study, and it may be repeated for a maximum of four units. (CSU)

DRAMA 075 - Selected Topics: Drama - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Drama not already covered by the existing curriculum.

DRAMA 101 - Creative Seniors: Drama - Units 0

Limitations on Enrollment: Qualified Performer.

This course is designed to give the student an opportunity to work with a variety of theatre performance practices, including rehearsal and performance, technical areas and activities related to "front of the house" duties. Emphasis work as an individual as well as in ensemble settings.

Economics

ECON 001A - Principles of Macroeconomics - Units 3

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, with a grade of "C" or better or minimum level of 5 on the Math Placement Test.

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG 001A, Reading and Composition, with a grade of "C" or better.

An introductory course focusing on aggregate economic analysis. Topics include: market systems, aggregate measures of economic activity, macroeconomic equilibrium, money and

financial institutions, monetary and fiscal policy, international economics, and economic growth. (UC, CSU, C-ID ECON 202)

ECON 001B - Principles of Microeconomics - Units 3

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH 082, Intermediate Algebra, with a grade of "C" or better or minimum level of 5 on the Math Placement Test.

Advisories: ENG 001A, Reading and Composition, with a grade of "C" or better.

This is an introductory course focusing on choices of individual economic decision-makers. Topics include scarcity, specialization and trade, market equilibrium, elasticity, production and cost theory, market structures, factor markets, and market failure. (UC, CSU, C-ID ECON 201)

ECON 013 - Global Economics - Units 3

Advisories: ENG 001A with a minimum grade of "C".

This course presents issues concerning the contemporary global economy from historical, political, and economic perspectives. It is suitable for students from all majors and backgrounds and anyone interested in learning about global economic issues. (UC, CSU)

ECON 015 - Selected Topics: Economics - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of economics not already covered by existing curriculum. (CSU)

ECON 050H - Special Studies: Economics - Units 1-4

Prerequisites: ECON-001A, Principles of Macroeconomics, or ECON-001B, Principles of Microeconomics, each with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean. To qualify for 050H, a student must have completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and Division Dean.

This course is designed to allow the qualified students to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

ECON 075 - Selected Topics: Economics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Economics not already covered by the existing curriculum.

Education

EDUC 010 - Introduction to Education - Units 3

Prerequisites: Reading level II; ENG-079, Preparatory English, with a grade of "C" or better or Composition Level III.

Advisories: ENG-001A, Reading and Composition, with a grade of "C" or better.

This course introduces students to the concepts and issues related to teaching diverse learners in today's contemporary schools, Transitional Kindergarten through grade 12 (TK-12). Topics include teaching as a profession and career, historical and philosophical foundations of the American education system, contemporary educational issues, California's Common Core content standards and frameworks, and teacher performance standards. In addition to class time, the course requires a minimum of 45 hours of structured fieldwork in public school elementary classrooms that represent California's diverse

student population, and includes cooperation with at least one carefully selected and campus-approved certificated classroom teacher. Fingerprint clearance and TB clearance are required. (UC, CSU, C-ID EDUC 200)

EDUC 012 - Reading Tutoring Techniques - Units 3

Prerequisites: ENG-079, Preparatory English, with a grade of "C" or better.

Advisories: EDUC-010 with a grade of "C" or better.

This course introduces the concepts and practice of elementary level tutoring in reading. Students will work with emergent readers in grades kindergarten through third grade, or with English Language Development (ELD) students. A minimum of 36 hours of field experience is required. TB test and fingerprint clearances are required. This course is recommended for students considering a career in teaching. (CSU)

EDUC 015 - Selected Topics: Education - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

EDUC 075 - Selected Topics: Education - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Education not already covered by the existing curriculum.

Electrical Technology

ELEC 015 - Selected Topics: Electrical Technology - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of electrical technology not already covered by the existing curriculum. (CSU)

ELEC 030 - Fundamentals of Electricity - Units 5

This course is designed to present the fundamental principles of electricity, magnetism and alternative energy. The student is introduced to the concepts and applications through lecture and laboratory for both direct (DC) and alternating current (AC). The student develops skills in the measurement, construction, and analysis of electrical circuits. (CSU)

ELEC 031 - Electrical Wiring Methods - Units 7

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis or ELECT-012 Solid State Devices each with a grade of "C" or better.

This course is designed to include the theory and skills involved in planning and installing nonmetallic sheathed cable, electrical metallic tube, and rigid conduit. The course also includes computations, building of electrical services, grounding, and electrical safety. (CSU)

ELEC 034 - Motor Controls - Units 5

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of "C" or better.

This course is designed to introduce the theory and advanced application of DC motors and controls and the advanced application of AC motors and three-phase alternators. Single-phase transformers, three-phase transformers, and control (ladder) diagrams are included. (CSU)

ELEC 036 - Industrial Motors and Controls - Units 4

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of

"C" or better.

This course introduces the theory and application of industrial DC/AC motors, alternators, and controls. Major emphasis is placed on industrial motors and motor control systems. (CSU)

ELEC 037 - Introduction to Programmable Logic Controllers - Units 4

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of "C" or better.

This course introduces the fundamentals of the operation and use of the Programmable Logic Controller (PLC). The PLC uses programmable memory to store instructions and executes specific functions that include on/off control, timing, counting, and sequencing arithmetic used in process and machine control systems. PLC principles, hardware, and software will be emphasized. Ladder logic is used in programming and troubleshooting the PLC. (CSU)

ELEC 040 - Electrical Certification Preparation II - Units 0.5-2

Limitations on Enrollment: Journey level proficiency in the construction electrical field.

Advisories: ELEC-031 or ELEC-077 each with a grade of "C" or better.

This course is designed to provide the student seeking a state electrical license with review of the National Electrical Code and preparation for the State Electrical Certification Exam. Topics include code requirements for electrical conductor sizing and protection, conductor resistance, voltage drops, residential unit loads, commercial unit loads Delta/Delta and Delta/Wye transformers. (CSU)

ELEC 041 - Fire Alarms - Units 2

Advisories: ELEC-030 with a grade of "C" or better.

This course is an introduction to fire alarm systems. Different types of alarm systems will be stressed along with the codes and standards for commercial and residential fire alarm applications. (CSU)

ELEC 042 - Security Alarms - Units 2

Advisories: ELEC-030 with a grade of "C" or better.

This course is an introduction to security alarms. Covered in this course will be the codes that cover this topic and the individual types of systems currently available and in use in the public sector. (CSU)

ELEC 043 - Fiber Optic Systems - Units 2

Advisories: ELEC-030 or ELECT-011 each with a grade of "C" or better.

This course is an introduction to fiber optic systems installed by electricians. Topics include safety in the handling of fiber optic cables, codes, selection of cables and raceways, termination and splicing methods and procedures, and best practices as required by the industry. (CSU)

ELEC 051 - Fundamentals of Solar Photovoltaic Systems - Units 3

This course is an introduction to solar photovoltaic (PV) concepts, applications, and the solar energy industry. It includes basics of electricity, load estimation, energy efficiency, solar site surveying, PV system components, sizing, financial analysis, design, installation concepts, and maintenance. It also introduces industry organizations such as the North American Board of Certified Energy Practitioners (NABCEP) and industry examination requirements. (CSU)

ELEC 052 - Advanced Solar Photovoltaic Systems Installation - Units 4

Prerequisites: ELEC-051 Fundamentals of Solar Photovoltaic Systems; ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of "C" or better. This is an advanced course in Solar Photovoltaic (PV) installation practices. Topics include PV hardware, software, module installation, site assessment, system sizing, National Electrical Codes requirements, and preparation for the North American Certified Energy Practitioners (NABCEP) examinations. (CSU)

ELEC 053 - NABCEP Entry Level Test Review - Units 3

Prerequisites: ELEC-051, Fundamentals of Solar Photovoltaic Systems, with a grade of "C" or better.

This is an advanced course in solar photovoltaic systems (PV) and prepares students for the North American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Certificate of Knowledge examination. Topics include PV system sizing, design, installation, troubleshooting and maintenance. (CSU)

ELEC 070 - Electrical Codes I - Units 3

Advisories: ELEC-031 or ELEC-077 each with a grade of "C" or better or recommended 3 or more years of field experience as an electrician.

This course provides preparation for students taking the State of California's General Electrician Journeyman Certification examination. Topics include review of the National Electrical Code (NEC), electrical math, electrical load calculations, and code requirements for electrical circuits, motors, transformers, raceways, outlet boxes and junction boxes.

ELEC 073 - Construction Safety - OSHA - Units 2

Advisories: ELEC-031 or ELEC-077 each with a grade of "C" or better.

This course is designed to introduce the student to requirements on job-sites, OSHA policies, procedures, and standards, as well as construction safety and health principles. Students successfully completing this course will receive an OSHA 30 Hr. Construction Safety and Health Awareness Card.

ELEC 075 - Selected Topics: Electrical Technology - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of electrical technology not already covered by the existing curriculum.

ELEC 076 - Electrical Motors - Units 5

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of "C" or better.

This course is designed to introduce the theory of Direct Current and Alternating Current (DC/AC) motors and alternators.

ELEC 077 - Industrial Wiring Methods - Units 5

Prerequisites: ELEC-030 Fundamentals of Electricity or ELECT-011 AC and DC Network Analysis each with a grade of "C" or better.

This course is designed to introduce the application of wiring methods, controls, and machines in commercial and industrial situations. The code and theory covering such applications are emphasized.

ELEC 087A - Electrical Specialization - Units 3-4

Prerequisites: ELEC-031 Electrical Wiring Methods or ELEC-032 Electrical Motors each with a grade of "C" or better.

This course is designed to assist the advanced student in gaining a greater knowledge of a specialized area of the electrical trade.

The work to be covered is developed between student and instructor at the beginning of the semester.

ELEC 087B - Electrical Specialization - Units 5

Prerequisites: ELEC-031 Electrical Wiring Methods or ELEC-032 Electrical Motors each with a grade of "C" or better.

This course is designed to assist the advanced student in gaining a greater knowledge of a specialized area of the electrical trade. The work to be covered is developed between student and instructor at the beginning of the semester.

Electrical Technology: Apprenticeship**A-ELE 070A - Electrical Apprenticeship I - Units 4**

Limitations on Enrollment: Indentured Apprenticeship.

An introduction to electrical apprenticeship, electrical shop practices, basic electrical layout, tools of the trade, and construction materials. Topics include working with electrical related mathematics, basic electrical formulas and an introduction to conduit fabrication.

A-ELE 070B - Electrical Apprenticeship II - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course covers DC theory, DC series and parallel circuits, DC combination circuits, principles of electromagnetism, and power generation. Topics include an introduction to the National Electrical Code (NEC).

A-ELE 071A - Electrical Apprenticeship III - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course covers AC theory, AC generation, use of instruments, and phase and circuit calculations. Topics include an introduction to blueprints.

A-ELE 071B - Electrical Circuits and Equipment - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with the knowledge of the fundamentals of electrical test equipment, inductance, capacitance, transformers, and commercial construction drawings.

A-ELE 072A - Electrical Motors - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with the knowledge of the fundamentals of electrical grounding, resonance circuits, high and low voltage wiring systems and electrical motors.

A-ELE 072B - Electrical Motor Control Systems - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with the knowledge of the fundamentals of three-phase transformers, direct current motors, motor starters, control systems, air conditioning and refrigeration systems.

A-ELE 073A - Electrical Motor Control Circuits - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with advanced knowledge of electricity, motor controls, semiconductors, electronic devices, and refrigeration system installation.

A-ELE 073B - Motor Control Systems - Units 4

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with a working knowledge of Motor Control systems and their installation and operation.

A-ELE 074A - Programmable Logic Controllers and Variable Frequency Drives - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the student with the knowledge of the fundamentals of electronic devices, digital logic circuits, process control, programmable logic controllers, and variable frequency drives.

A-ELE 074B - Advanced Electrical Applications - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with advanced knowledge of electrical code, automation systems, network systems, electrical project supervision and basic welding.

A-ELE 075A - Basic Electricity - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide a background in basic electricity. The course includes theory and applications of electricity, Ohm's Law, magnetism, power and circuits.

A-ELE 075B - Advanced Electricity - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide a background in the theory and application of advanced electricity. Topics included are alternating current, inductance, capacitance, transformers, circuits, and vectors related to motor and generators.

A-ELE 075C - Transformers and Polychlorinated Biphenyl - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to include the theory and advanced application of transformers, power circuit breakers, electrical controls and print reading.

A-ELE 075D - Protective Relaying - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is an introduction to the theories and skills involved in basic power system protective relay design and operation.

A-ELE 075E - High Voltage Switching - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed for the student to acquire the knowledge necessary to perform high voltage switching (12,000 volts and above). Emphasis will be placed on theory and hands-on application.

A-ELE 075F - Electrical Motors and Controls - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to present the application of wiring methods and control circuit design for power plants. The course includes interpreting electrical schematics, wiring diagrams, and troubleshooting control circuits.

A-ELE 076 - Selected Topics: Electrical Apprenticeship - Units 0.5-4

This topics course is designed to offer instruction in one of the specialized areas of electrical technology not already covered by existing curricula. Transferability of units will be determined by the receiving authority.

A-ELE 077A - Residential Wireman: Introduction - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course provides students with the knowledge and fundamentals of electricity as applied to residential construction. The course includes work characteristics, job-site safety, tools, materials, print reading, and basic wiring practices.

A-ELE 077B - Residential Wireman: Direct Current - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge and fundamentals of Direct Current electricity and the National Electrical Code as applied to residential construction. The course includes Direct Current fundamentals of series and parallel circuits, solving electrical problems using Ohm's Law, Kirchhoff's Law, and Thevenin's Theorems.

A-ELE 077C - Residential Wireman: Alternating Current - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge and fundamentals of Alternating Current (AC) electricity, application of the National Electrical Code to residential construction, and advanced blueprint reading.

A-ELE 077D - Residential Wireman: Wiring Circuits & Methods - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of wiring circuits and methods for residential construction according to the National Electrical Code. This course includes wiring methods for HVAC, TV, Phone, Data, Security, and Fire Alarm systems as well as circuit planning for Kitchens, Bathrooms, General Living Areas and Special Purpose circuits.

A-ELE 077E - Residential Wireman: Code & Complex Circuits - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of advanced load calculations based on the National Electrical Code as applied to residential construction. The course also includes Overcurrent Protection Devices, Short Circuits, Ground Fault protection circuits along with telephone and air conditioning circuits, control and troubleshooting.

A-ELE 077F - Residential Wireman: Advanced Code & Special Circuits - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with the knowledge of wiring circuits and installation procedures. Topics include the National Electrical Code requirements for specialty installations such as with swimming pools, fountains, data communication, security, direct broadcast satellite (DBS), solar (photovoltaic), fiber optics, and cabling of Local Area Networks.

A-ELE 077G - Advanced Electrical Applications - Units 4

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide students with advanced knowledge of electrical code, automation systems, network systems, electrical project supervision and basic welding.

Electron Microscopy**E M 070 - Introductory Techniques for Electron Microscopy - Units 3**

Advisories: Reading level II.

This course is a beginning electron microscopy lecture and laboratory course dealing with the alignment and operation of the transmission electron microscope (TEM) as well as the preparation of particles and replicas for viewing on the TEM. The course includes individual training in the use of the TEM and techniques for photography.

E M 071 - Light Microscopy and Photography - Units 3

Advisories: Reading level II.

This course covers the fundamentals of digital photography for scientific applications. Emphasis is placed on the understanding and operation of the optical microscope and digital imaging.

E M 072B - Ultramicrotomy for Electron Microscopy - Units 4.5

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This is a lecture and laboratory course which covers the preparation of biological samples for the Transmission Electron Microscope by ultramicrotomy.

E M 073M - Introduction to Materials Electron Microscopy - Units 4

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is a lecture and laboratory course covering the areas of fractography, integrated circuits, and thin foil preparation.

E M 074 - Scanning Electron Microscopy - Units 3

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

This course is designed to provide the student with techniques necessary to prepare specimens, both organic and inorganic, for the scanning electron microscope. The student becomes familiar with the operating modes of the scanning electron microscope and the energy dispersive X-ray system. High resolution systems and computer imaging constitute part of the course.

E M 075B - Biological Ultrastructure - Units 2

This course presents information about the fine structure and function of cells and tissues.

E M 082B - Advanced Techniques in Biological Electron Microscopy - Units 3.5

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy and E M-072B Ultramicrotomy for Electron Microscopy and E M-071 Light Microscopy and Photography each with a grade of "C" or better.

This course is a lecture and laboratory course which covers advanced techniques of biological specimen preparation for transmission electron microscopy (TEM).

E M 083M - Physical Electron Microscopy Laboratory - Units 3

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy and E M-073M Introduction to Materials Electron Microscopy each with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level I.

This course is a lecture and laboratory course covering preparation, handling, and examinations of thin film electron transmission samples and other materials. The course also covers interpretation of electron micrograph images and reciprocal lattice patterns in electron diffraction in crystals.

E M 084B - Biological Scanning Electron Microscopy - Units 2

Prerequisites: E M-074 Scanning Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is a lecture and laboratory course which covers preparation methods for biological specimens for observation in the scanning electron microscope (SEM).

E M 085M - Analytical Scanning Electron Microscopy - Units 3

Prerequisites: E M-074 Scanning Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an advanced course in scanning electron microscopy. The course places emphasis on elemental analysis with both energy and wave-length dispersive systems as done on the scanning electron microscope. Quantitative computer assisted analysis constitutes a segment of the course.

E M 086M - Focused Ion Beam (FIB) Operation and Atomic Force Microscopy (AFM) - Units 2

Prerequisites: E M-074 Scanning Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is an advanced microscopy lecture and laboratory course specifically dealing with the alignment and operation of the focused ion beam (FIB) instrument and the atomic force microscope.

E M 087 - Electron Microscopy Equipment Maintenance - Units 3

Prerequisites: E M-074 Scanning Electron Microscopy with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

Corequisites: E M-074 Scanning Electron Microscopy.

This course is designed to provide information and training related to the upkeep and everyday maintenance of equipment usually found in an electron microscope laboratory.

E M 088 - Current Microscopies - Units 3

Prerequisites: E M-070 Introductory Techniques for Electron Microscopy and E M-071 Light Microscopy and Photography each with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

This course is designed to provide a survey of microscopy techniques from all disciplines of science.

E M 089 - Digital Imaging for Microscopy - Units 2

Prerequisites: E M 070, Introductory Techniques for Electron Microscopy, and E M 071, Light Microscopy and Photography, both with a grade of "C" or better. Advisory: Reading Level II.

This course is a lecture course which provides information and training related to digitizing, processing, measuring, and analyzing images specifically related to microscopy applications.

E M 090 - Advanced Projects in Electron Microscopy - Units 2

Prerequisites: E M-082B Advanced Techniques in Biological Electron Microscopy or E M-083M Physical Electron Microscopy Laboratory and E M 074 Scanning Electron Microscopy each with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

This course is a lecture and laboratory course which includes special studies involving advanced concepts for electron microscopy. Field trips may be required.

E M 095H - Special Studies: Electron Microscopy - Units 1-2

Prerequisites: E M-082B Advanced Techniques in Biological Electron Microscopy or E M-083M Physical Electron Microscopy Laboratory each with a grade of "C" or better.

This course is available to the qualified student who wishes to explore further some phase of electron microscopy either in the biological or metallurgical field. Consent of the instructor and division chairperson is required.

E M 096 - Selected Topics: Electron Microscopy - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of electron microscopy not already covered by existing curricula.

E M 099 - Applied Microscopy Principles - Units 1-3

Prerequisites: E M-070 *Introductory Techniques for Electron Microscopy with a grade of "C" or better.*

Prerequisite Skills: 1. *Advisory: Reading Level II.*

This course is designed to prepare the student to help other students in hands-on microscopy procedures. The student learns how to assist other students in "hands on" applications. The student performs as microscopy laboratory assistants applying learned material and performing various microscopy-related tasks as directed by an instructor or lab supervisor.

Electronics Technology

ELECT 011 - AC and DC Network Analysis - Units 4

The Electronics Technology Program provides students with theoretical background and practical experience in meeting the technical requirements of electronics and electrical technology. The course sequence is designed to meet the skill and training needs of employers and to prepare students for technical employment. This course is designed to present the passive components in electronics from atomic structure through resonance. Laboratory exercises are utilized to familiarize the student with basic electronics test equipment and simple AC and DC (Alternating Current and Direct Current) circuits. (CSU)

ELECT 012 - Solid State Devices - Units 4

Prerequisites: ELECT-011 *AC and DC Network Analysis with a grade of "C" or better.*

This course is designed to present the theory, operation, and application of solid-state devices. The course stresses the application of bipolar transistors, field effect transistors, opto-devices, and the thyristor family in rectifier amplifiers, detectors, and other basic systems. Laboratory exercises are utilized to reinforce the theory. (CSU)

ELECT 013A - Digital Logic, Circuits, and Systems - Units 4

Advisories: ELECT-011 *with a grade of "C" or better.*

This course is designed to introduce digital devices and their applications. Topics include the analysis and synthesis of combinational and sequential circuits and the use of MSI, LSI, FPGA and CPLD devices. Students study number systems, binary arithmetic, and Boolean logic. (CSU)

ELECT 014B - Advanced Electronics Troubleshooting - Units 2.5

Advisories: ELECT-011 *with a grade of "C" or better or better.*

This course is designed to continue the development of identified skills necessary for troubleshooting small electronics devices through self-study, lecture, and hands on activities. (CSU)

ELECT 014C - Troubleshooting Computers - Units 2.5

This course includes hardware and software topics relevant to personal computer (PC) troubleshooting. Emphasis is placed on developing essential troubleshooting and repair skills and preparation for the A+ certifications exam.(CSU)

ELECT 015 - Selected Topics: Electronics Technology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of electronics technology not already covered by existing curricula. (CSU)

ELECT 017 - Robotics / Automation Introduction - Units 4

Limitations on Enrollment: *Basic knowledge of Electronics/Electrical or industry experience.*

Advisories: ELECT-011 or ELEC-030 *each with a grade of "C" or better.*

This course is designed to offer instruction in introductory industrial robotics and automation. Manufacturing and materials processing has moved into the age of automation. This technology combines electronics, computers, mechanics, pneumatics, and hydraulics into an interrelated system. Mechatronics is the technical name for this topic of study and requires an acquired knowledge of each of the technologies incorporated. This course of study will bring students to a level of understanding in each of the areas, enabling them to make usable applications. (CSU)

ELECT 018 - Robotics / Automation /Mechatronics Systems - Units 4

Prerequisites: ELECT-017, *Robotics / Automation Introduction, and ELECT-011, AC and DC Network Analysis, or ELEC-030, Fundamentals of Electricity, each with a grade of "C" or better.*

This course is designed to offer instruction in introductory industrial robotics and automation. Manufacturing and materials processing has moved into the age of automation. This technology combines electronics, computers, mechanics, pneumatics, and hydraulics into an interrelated system. Mechatronics is the technical name for this topic of study and requires knowledge of each of the technologies incorporated. This course of study will enhance students' understanding in each of the areas, enabling them to make usable applications controlled through a programmable device. Transferability of units will be determined by the receiving authority. (CSU)

ELECT 030A - Introduction to Computer Networks - Units 4

This course covers the first of the Cisco Certified Network Associate (CCNA) certification and will cover the fundamentals of networking, including the OSI model and industry standards, concepts, network topologies, cabling, network hardware, basic network design, LANs, and network configuration and troubleshooting. It will cover TCP/IP basics, IPv4 and IPv6 addressing, VLSM, CIDR, subnetting, router IOS and configuration, switching concepts, CDP and CSMA-CD. Students will get hands-on experience configuring Cisco routers and switches. Students should have strong basic computer skills and knowledge of Internet use.(CSU)

ELECT 030B - Advanced Electronic Computer Networks - Units 4

Prerequisites: ELECT-030A *Basic Electronic Computer Networks with a grade of "C" or better.*

This course describes the architecture, components, and operation of CISCO routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols (CISCO) RIPv1, RIPv2, EIGRP, and OSPF. (CSU)

ELECT 030C - Basic Electronic Network Systems - Units 4

Prerequisites: ELECT-030B *Advanced Electronic Computer Networks with a grade of "C" or better or CCNA Certification.*

This course will cover basic concepts of switching and wireless. The course focuses on command line interface configuration of switches, Inter-VLANs (Virtual Local Area Networks), STP (Spanning-Tree Protocol), and VTP (Virtual Trunking Protocol).Basic Wireless Concepts and Configurations. (CSU)

ELECT 030D - Advanced Electronic Network Systems - Units 4

Prerequisites: ELECT-030C *Basic Electronic Network Systems*

with a grade of "C" or better or CCNA Certification.

This course is an advanced overview of IPv4 (Internet Protocol version 4) addressing techniques and Wide Area Network technologies and terminology. The course will cover NAT (Network Address Translation) and the use of private addresses to configure and secure a greater number of users within a network. The course will define the concepts and configuration of PAT (Port Address Translation) and DHCP (Dynamic Host Configuration Protocol) for scalability of IPv4 addresses. This course will cover PPP (Point-to-Point Protocol), Frame Relay concepts and router configuration. (CSU)

ELECT 030E - Network Hardware Application - Units 2

Prerequisites: ELECT-030D Advanced Electronic Network Systems with a grade of "C" or better.

This course provides a study in practical applications of networking techniques for Local Area Networks (LAN) and Wide Area Networks (WAN). Topics include planning, installing, and maintaining a LAN/WAN, responsibilities of the system administrator, and human implications. This course provides hands-on training in LAN/WAN applications and network administration. Applications include wireless access, peer-to-peer communication, web base cameras, and voice/data wiring. CSU

ELECT 032A - Advanced Routing Professional (ROUTE) - Units 5

Prerequisites: ELECT-030D Advanced Electronic Network Systems with a grade of "C" or better.

This course teaches students how to implement, monitor, and maintain routing services in an enterprise network. Students will learn how to plan, configure, and verify the implementation of complex enterprise LAN and WAN routing solutions, using a range of routing protocols in IPv4 and IPv6 environments. The course also covers the configuration of secure routing solutions to support branch offices and mobile workers. Comprehensive labs emphasize hands-on learning and practice to reinforce configuration skills. CSU

ELECT 034 - Network Systems Security - Units 4

Prerequisites: ELECT-030D Advanced Electronic Network Systems with a grade of "C" or better or Cisco Certified Network Associate (CCNA) Industry Certificate.

Prerequisite Skills: 1. Cisco Certified Network Associate (CCNA) Industry Certificate can be used to evaluate and enter Elect 34.

This course will teach students to design and implement security solutions that will reduce the risk of revenue loss and hardware vulnerability. The course will introduce network security and overall security processes with particular emphasis on security technologies, products and solutions, firewall and secure router design, installation, configuration and maintenance, and securing the network at layers 2 and 3 of the Open Systems Interconnection (OSI) Model. This course prepares the students for industry professional level certification such as the Cisco Certified Network Associate (CCNA) Security Certification. (CSU)

ELECT 050H - Special Studies: Electronics Technology - Units 1-4

Prerequisites: ELECT-011 AC and DC Network Analysis and ELECT-012 Solid State Devices and ELECT-013A Digital Integrated Circuits each with a grade of "C" or better.

This course is open to the student qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

ELECT 075 - Selected Topics: Electronics Technology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of electronics technology not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

ELECT 098V - Work Experience: Electronics - Units 1-4

Limitations on Enrollment: The student must enroll in a course that is directly related to the construction technology internship. The student must officially enrolled in a Delta College course during the participating semester. The combined total number of units a student may take in work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of Work Experience program objectives and an employer Work Experience agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational work experience in Electronics. Application of discipline-related skills and knowledge of the Secretaries' Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, the student must complete an application form available at the Applied Science and Technology Division Office, Holt 140.

Engineering

ENGR 001 - Introduction to Engineering and Technology - Units 3

Prerequisites: MATH-090, Beginning Algebra, with a grade of "C" or better or higher level Math course, or a minimum of assessment level 4 on the Math Placement Test. Advisory: Reading Level II.

This course is an introduction to the engineering profession and processes used by engineers and technologists. Computer applications are used to demonstrate the problem-solving techniques used by engineers and technologists. The course explores the branches of engineering, the functions of an engineer, and the industries in which engineers work. Engineering education pathways are explored and effective strategies are discussed for students to reach their full academic potential. Communication skills are developed pertinent to the engineering profession. This course is designed for the student considering career possibilities in engineering and/or engineering technology. (UC, CSU, C-ID ENGR 110)

ENGR 002 - Engineering Graphics - Units 3

Prerequisites: MATH-038B, Precalculus II, or MATH-039, Precalculus, each with a grade of "C" or better or an assessment level 6 on the Math Placement Test.

This course covers the principles of engineering drawings in visually communicating engineering designs and an introduction to computer-aided design (CAD). Topics include the development of visualization skills; orthographic projections; mechanical dimensioning and tolerancing practices; and the engineering design process. Assignments develop sketching and 2-D and 3-D CAD skills. The use of CAD software is an integral part of the course. (UC, CSU)

ENGR 004 - Engineering Materials - Units 4

Prerequisites: CHEM-001A, General Chemistry, and PHYS-004A, Principles of Physics: Mechanics, each with a grade of "C" or better.

This course presents the internal structures and resulting behaviors of materials used in engineering applications, including metals, ceramic, polymers, composites, and semiconductors. The emphasis is upon developing the ability both to select appropriate materials to meet engineering design criteria and to understand the effects of heat, stress, imperfections, and chemical environments upon material properties and performance. Laboratories provide opportunities to directly observe the structures and behaviors discussed in the course, to operate testing equipment, to analyze experimental data, and to prepare reports. (UC, CSU, C-ID ENGR 140B)

ENGR 006 - Engineering Circuit Analysis - Units 4

Prerequisites: PHYS-004C, Principles of Physics: Electricity and Magnetism, and MATH-004, Differential Equations, each with a grade of "C" or better.

Corequisites: MATH-004 Differential Equations.

This course is an introduction to the analysis of electrical circuits with the use of analytical techniques based on the application of circuit laws and network theorems. Topics include: analysis of DC and AC circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers, and/or switches; natural and forced responses of first and second order RLC circuits; the use of phasors; AC power calculations; power transfer; and energy concepts. This course will also include an introduction to the construction and measurement of electrical circuits using basic electrical tests and measurement instruments including multimeters, oscilloscopes, power supplies, function generators, and basic operational amplifier circuits. Circuit simulation software will be used to interpret measured and simulated data based on principles of circuit analysis for DC, transient, and sinusoidal steady-state (AC) conditions, and elementary circuit design. Practical considerations such as component value tolerance and non-ideal aspects of laboratory will be discussed. (UC, CSU, C-ID ENGR 260 and 260L)

ENGR 008 - Statics - Units 3

Prerequisites: MATH-002, Calculus II, and PHYS-004A, Principles of Physics: Mechanics, each with a grade of "C" or better.

This course is a study of rigid bodies in static equilibrium when acted upon by forces and couples in two-dimensional and three-dimensional space. Included are equilibrium of rigid bodies, trusses, frames, and machines, as well as the calculation of centers of mass, centroids, friction, distributed forces, beams, shear and moment diagrams, and moments of inertia. (UC, CSU, C-ID ENGR 130)

ENGR 010 - Surveying - Units 3

Prerequisites: MATH-038B, Precalculus II, or MATH-039, Precalculus, each with a grade of "C" or better or a minimum of assessment level 6 on the Math Placement Test.

This course applies theory and principles of plane surveying: office computations and design; operation of surveying field equipment; and production of engineering plans/maps. Topics include distances, angles and directions; differential leveling; traversing; property/boundary surveys; topographic surveys/mappings; volume/earthwork; horizontal and vertical curves; land description techniques; and GPS. Extensive field work using tapes, levels, transits, theodolites, total stations, and GPS will occur. (CSU)

ENGR 015 - Selected Topics in Engineering - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of engineering not already covered by the existing curriculum. (CSU)

ENGR 029 - Engineering Applications for Digital Computations - Units 3

Prerequisites: MATH 001, Calculus, with a grade of "C" or better.

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics. (CSU, C-ID ENGR 220)

ENGR 050H - Special Studies: Engineering - Units 1-2

Prerequisites: ENGR-001 Introduction to Engineering and Technology and MATH-092S Intermediate Algebra (STEM) each with a grade of "C" or better or higher level Math course, or a minimum of assessment level 5 on the Math Placement Test.

Limitations on Enrollment: A student must have completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and Division Dean.

This course is offered to any student qualified to do advanced work in engineering. Projects and assignments must be arranged and be approved by the instructor and the division dean before enrolling in the course. (CSU)

ENGR 075 - Selected Topics: Engineering - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of engineering not already covered by the existing curriculum.

Engineering Technology**E TECH 011 - Engineering Drafting - Units 3**

Prerequisites: E TECH-012 Computer-Aided Drafting with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

Advisories: MATH-080 with a grade of "C" or better or higher level Math course or a minimum of assessment level 4 on the Math Placement Test.

This course is designed to expand the student's understanding of engineering drafting concepts. Topics include dimensioning, tolerancing, surface texture, notes, threads and fasteners, weld representation, gearing, cams, and assembly drawings. (CSU)

E TECH 012 - Computer-Aided Drafting - Units 3

This course is designed to utilize Computer Aided Drafting (CAD) software on microcomputer CAD systems to produce a variety of drawings. The student learns the function and operation of typical CAD system components. This course is also designed to introduce basic skills used in engineering drafting. Topics include sketching, orthographic projection, isometric views, auxiliary views, sectioning, and dimensioning. Some of the coursework allows the student to work in the field of individualized interest. (CSU)

E TECH 015 - Selected Topics in Engineering Technology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of engineering technology not already covered by the existing curriculum. (CSU)

E TECH 020 - Materials and Measurements - Units 3

Advisories: MATH-080 with a grade of "C" or better or a minimum of assessment level 4 on the Math Placement Test.

This course is designed for the technology student. The course is designed to provide the technology student with a basic understanding of the structure and physical properties of materials such as metals, ceramics, polymers, composites, and electronic-related materials. Test procedures and instrumentation used in studying materials are included. The course includes a variety of measuring techniques. (CSU)

E TECH 022 - Three Dimensional Modeling - Units 3

Prerequisites: E TECH-012 Computer-Aided Drafting with a grade of "C" or better.

This course is an introduction to the construction of three dimensional models. The course includes wireframe, surface, and solid modeling. (CSU)

E TECH 031 - Fundamentals of Civil Drafting - Units 3

Prerequisites: E TECH-012, Computer-Aided Drafting and MATH-080, Elementary Algebra, each with a grade of "C" or better or higher or a minimum of assessment level 4 on the Math Placement Test.

This course is an introduction to conventional drafting practices used in typical civil engineering projects. Emphasis is placed on the drafting and understanding of subdivision mapping, structural plans, and structural details including steel, wood, masonry, and reinforced concrete structures. A complete project portfolio is developed. (CSU)

E TECH 034 - Machine Drafting - Units 3

Prerequisites: E TECH-011 Engineering Drafting and E TECH-022 Three Dimensional Modeling each with a grade of "C" or better.

This course is designed to prepare the student to draw detail and assembly drawings of machine parts using precision-dimensioning techniques. Topics include geometric tolerancing per American Society of Mechanical Engineers (ASME) Y14.5 standard, fits, paper gauging, detailed specifications, notes, material lists, and surface finishes. (CSU)

E TECH 041 - Civil Drafting: Site Design and Improvement - Units 4

Prerequisites: E TECH-012 Computer-Aided Drafting and MATH-080 Elementary Algebra each with a grade of "C" or better or higher or a minimum of assessment level 4 on the Math Placement Test.

This course is an introduction to the development and design of site plans, including parking, storm drainage systems, sewage piping, and site preparation. The student prepares a set of drawings with calculations and cost estimates for a site improvement plan. A complete project portfolio is developed. (CSU)

E TECH 046 - Mechanical and Electrical Systems - Units 3

Prerequisites: E TECH-012 Computer-Aided Drafting with a grade of "C" or better.

This course is an introduction to the fundamentals of mechanical and electrical building systems used in the construction industry. These fundamentals are applied in the design and drawing of

engineering plans for mechanical and electrical systems required for building construction. (CSU)

E TECH 047 - Introduction to Industrial Control Systems - Units 3

This course is designed to include basic control systems for process machines and driven equipment used in industry. Topics include programmable controllers, basic electrical circuits, input devices, output devices, control diagrams, and specific programmable controller applications. (CSU)

E TECH 075 - Selected Topics in Engineering Technology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of engineering technology not already covered by the existing curriculum.

E TECH 078 - Applied Statics & Strength of Materials - Units 3

Prerequisites: MATH-090, Beginning Algebra, with a grade of "C" or better or a minimum of assessment level 4 on the Math Placement Test.

This course covers the fundamental concepts of statics and strength of materials applied to the analysis and design of engineering components and systems. Examples from mechanical and civil engineering systems are included.

E TECH 080 - Applied Surveying - Units 3

Advisories: MATH-080 with a grade of "C" or better or a minimum of assessment level 4 on the Math Placement Test.

This course is designed for the engineering technician. The course utilizes an applications-oriented approach in the basic principles used in typical surveying field and office work related to horizontal measurements, elevations, traverses, boundary surveys, route surveying, and construction projects.

English

ENG 001A - Reading and Composition - Units 3

Prerequisites: ENG-079 Preparatory English or ENG 077D Accelerated Pre-Transfer Level Composition and Reading both with a grade of "C" or better or ENG-077C Intensive Reading and Composition Lab or ENG-095 Intensive Reading and Composition Lab each with a grade of "P" or better or Composition Level III.

Prerequisite Skills: 1. Advisory Reading Level III, or Reading Level II and concurrent enrollment in Reading 094A.

This course is a transfer-level, college freshman English composition course comparable to those courses offered by the state college and university systems. (UC, CSU, C-ID ENGL 100)

ENG 001B - Written Communications II: A Critical Introduction to Literature - Units 3

Prerequisites: ENG-001A Reading and Composition with a grade of "C" or better.

This course is designed to help the transfer student develop his/her critical thinking skills and read and write with college-level sophistication through writing analytical essays based on reading and discussing a culturally diverse literature. The analysis of literature through discussion and through writing is designed to develop the student's critical thinking skills as well as to increase his/her ways of understanding and interpreting the world. (UC, CSU, C-ID ENGL 120)

ENG 001D - Advanced Composition and Critical Thinking - Units 3

Prerequisites: ENG-001A Reading and Composition with a

grade of "C" or better.

This course is designed for the student who wishes to transfer to a four-year college or university. The course emphasizes the development of critical thinking skills through instruction in essay writing by focusing on the principles of logic and developing the abilities to analyze, to criticize, and to reach reasoned conclusions. Critical thinking is refined by close reading of prose to distinguish fact from value judgment and knowledge from opinion. The student is required to write between 6,500 and 8,000 words divided among several essay assignments. (UC, CSU, C-ID ENGL 105)

ENG 015 - Selected Topics: English - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of English not already covered by the existing curriculum. (CSU)

ENG 030 - The Film as Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course is a study of the cinema genre with emphasis on artistic and literary values. (UC, CSU)

ENG 032A - Seminar in Communications: Tutor Center - Units 0.5-2

Advisories: ENG-001A with a grade of "C" or better.

This course is designed for the student who is qualified to work as a content area tutor. Emphasis in training is placed on learning theory, tutoring methods, interpersonal communication, and study skills. (CSU)

ENG 032B - Seminar in Communications: Writing Lab - Units 0.5-2

Advisories: ENG-001A with a grade of "C" or better.

This course is designed for the student who wishes to work as a writing tutor. Emphasis in training is placed on learning theory, tutoring methods, interpersonal communication, and the process of writing. (CSU)

ENG 032C - Seminar in Communications: Reading Tutor Techniques - Units 0.5-2

Advisories: ENG-001A with a grade of "B" or better.

This course is designed for the student, at beginning level, who is qualified to work as a reading area tutor. Emphasis in training is placed on the reading process, learning styles, problem solving, reading techniques and methods, interpersonal relationships, and content analysis. (CSU)

ENG 032M - Seminar in Communications: Math/Science Learning Center - Units 0.5-2

Advisories: ENG-001A with a grade of "C" or better.

This course is a training program for the student interested in tutoring in the Math/Science Learning Center. The student is introduced to topics relevant to tutoring including, but not limited to, interpersonal communication, tutoring techniques, learning styles, study skill strategies and test anxiety. In addition, the student will learn about the mission and operating practices of the learning center. (CSU)

ENG 033A - Study Skills for Success in College - Units 2

This course is an advanced learning skills course designed to improve the student's study skills. Topics include taking lecture notes, improving memory, managing time, reading a textbook, passing examinations, and other strategies for college success. (CSU)

ENG 035 - Chicano Literature - Units 3

Prerequisites: ENG 079 with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course is designed to offer a critical survey on the literary periods of Chicano Literature from the Pre-Columbian, Hispanic, Mexican, Transition, Interaction, and Chicano. Spanish proficiency is not required. (UC, CSU)

ENG 036 - Selected Topics: Literature - Units 0.5-4

This course is designed to encourage study in the field of literature of a subject not covered in the college catalog or in the current schedule of classes. This course is offered in the traditional classroom setting and is not a course of independent study. (CSU)

ENG 037 - Women in Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

This course is a study of women in literature with an emphasis on female archetypes in short fiction, drama, poetry, and the novel. (UC, CSU)

ENG 038 - Mythology - Units 3

Prerequisites: ENG 079 with a grade of "C" or better or Composition Level III.

This course is designed to provide the student with an introduction to the literature of Greek, Roman, and Norse mythology. Other universal myths may be included. The course provides a background for understanding of allusions, form, and content of recurring themes in modern literature as well as revealing the continued influence of mythological motifs on customs, traditions, beliefs, and values. (UC, CSU)

ENG 042A - Survey of American Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course is designed as a study of the forms and ideas in early American literature with an emphasis on understanding the values and traditions which shape contemporary American thought (precolonial period through the Civil War). (UC, CSU, C-ID ENGL 130)

ENG 042B - Survey of American Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

This course is designed as a study of the forms and ideas in American literature with an emphasis on an understanding of the values and traditions which shape contemporary thought (Mark Twain through contemporary authors). (UC, CSU, C-ID ENGL 135)

ENG 043C - World Literature I - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is designed as a comparative study of world literature in translation and in English, beginning with the earliest extant texts and extending through works in the seventeenth century from the Middle East, Europe, Asia and other areas. (UC, CSU, C-ID ENGL 140)

ENG 043D - World Literature II - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C"

or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is designed as a comparative study of world literature in translation and in English, beginning with the mid or late seventeenth century and extending through works in the present from the Middle East, Europe, Asia and other areas. (UC, CSU, C-ID ENGL 145)

ENG 044D - Creative Writing: Play and Screen Writing - Units 3

Prerequisite Skills: 1. Composition Level III.

Advisories: ENG-079 with a grade of "C" or better.

This course is offered to the student seriously interested in writing stage plays and/or screenplays. Emphasis is placed on the study of the craft of writing for the stage or screen; the artistry employed by successful, established, published authors; and constructive group criticism of manuscripts submitted for the course. Emphasis is on plot, character, dialogue, and format. (CSU)

ENG 045 - The Reading of Shakespeare - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level 3.

Prerequisite Skills: 1. Advisory Reading Level 2.

This course is designed for the student to read, study, and interpret selected works by William Shakespeare. (UC, CSU)

ENG 046A - Survey of British Literature I - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Advisory Reading Level II.

This course is designed as a survey of British literature beginning with the Anglo-Saxon period and extending through the eighteenth century. (UC, CSU, C-ID ENGL 160)

ENG 046B - Survey of British Literature II - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Advisory Reading Level II.

This course is designed as a survey of British literature beginning with the Romantic period and extending through the twentieth century. (UC, CSU, C-ID ENGL 165)

ENG 047 - The Bible as Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course is designed as a study of the types and characteristics of literature in the English Bible, with consideration of its development and history. Emphasis is placed on those literary qualities that account for the Bible's unique influence on Western literature. (CSU, UC)

ENG 049A - Introduction to Creative Writing - Units 3

Advisories: READING-094 and ENG-001A each with a grade of "C" or better.

This course is offered to the student interested in exploring creative writing in any genre, including fiction and non-fiction: short stories, novels, poetry, songs, plays, musicals, screenplays, television scripts, children's books, autobiographies and memoirs, biographies, magazine and newspaper articles, features, reviews, and columns. Emphasis is placed on the conception and development of ideas, process of creative writing, elements and formats of specific genres of writing, benefits of practice in several genres, artistry employed by successful, established, and published authors, and constructive group

criticism of work submitted for the course. (UC, CSU, C-ID ENGL 200)

ENG 049B - Creative Writing: Fiction - Units 3

Advisories: ENG-079 with a grade of "C" or better or Composition Level III.

This course is designed for the student seriously interested in writing fiction. Emphasis is placed on the craft and artistry employed by established, published authors and on constructive group critiques of manuscripts submitted by class members. Emphasis is on characterization, plot, setting, and point of view. (CSU)

ENG 049C - Creative Writing: Poetry - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed for the student who is seriously interested in writing poetry. Emphasis is placed on the craft of poetry and the artistry employed by established poets and on constructive group criticism of poems submitted by class members. (CSU)

ENG 050H - Special Studies: English - Units 1-3

Prerequisites: ENG-001A Reading and Composition with a grade of "C" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is designed for the student qualified to do advanced work in English. The course includes research, directed reading, field work, or other advanced study. (CSU)

ENG 052 - From Story to Screen - Units 3

Prerequisites: ENG 079 Preparatory English with a grade of "C" or better or Composition Level III.

This course is offered to the student interested in exploring and identifying the changes and their effects in adapting literature for film. Emphasis is placed on the analysis of short stories, novels, and plays; the literary elements that must, by necessity, be addressed differently for the screen; the choices made in adaptations; and evaluating the results in film adaptations. (UC, CSU)

ENG 055A - Studies in Drama - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course provides an introduction to drama as a literary genre. Emphasis is placed on dramatic literature's distinguishing elements, critical approaches to its analysis, and writing critical essays. (UC, CSU)

ENG 055B - Studies in Fiction - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better OR Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This genre course is designed as an introductory study of the types and characteristics of prose fiction, including short stories, novellas, and novels, with consideration of their development and history. The course may include fiction written in English, as well as fiction in translation. (UC, CSU)

ENG 055C - Studies in Poetry - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better or Composition Level III.

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to poetic language, poetic forms, and poetic themes through an examination of traditional and contemporary poetry. This course aims to help students read,

understand, appreciate, and critically evaluate poetry written in English. (UC, CSU)

ENG 057 - Children's Literature - Units 3

Prerequisites: ENG-079 Preparatory English with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

This course is a survey of literature written for children. Through an exploration of children's literature from various time periods, cultures, and genres, students will develop a criteria for evaluating the literary merit of these works. This course is intended for prospective teachers, ECE majors, parents, and anyone who is interested in learning about the literature written for children. (CSU, C-ID ENGL 180)

ENG 060 - Practical English Grammar - Units 3

Advisories: Reading level II.

This course is designed to prepare the student with a knowledge of the grammar and mechanics of the English language. Emphasis is placed on identifying and generating grammatical sentences and exploring how both simple and complex grammatical structures augment clarity and sentence variety. Students will apply correct English usage to their writing as well as build varied, precise vocabularies for writing proficiency. (CSU)

ENG 073A - Writing Laboratory I - Units 1

This course is designed for individualized practice in writing the English sentence and paragraph for the student challenged in basic written English or with limited English proficiency. The student's current skill level is determined, and instruction starts at that point. Units earned in this course do not count toward the associate degree.

ENG 073B - Writing Laboratory II - Units 1

This course is designed for individualized practice in composing standard English sentences, paragraphs, and essays for the student challenged in basic written English or with limited English proficiency. The student's current skill level is determined, and instruction starts at that point. Units earned in this course do not count toward the associate degree.

ENG 075 - Selected Topics: English - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of English not already covered by the existing curriculum.

ENG 077 - Selected Topics: Basic Skills - Units 0.5-4

This course is designed to encourage the study of special topics in Basic Skills. Special topics may include, but are not limited to, reading and writing, vocabulary, sentence construction, and grammar. This course is offered in the traditional classroom setting and does not duplicate catalog offerings. It is not a course of independent study.

ENG 078A - Accelerated Reading and Writing 1: Career Pathways - Units 5

Prerequisite Skills: 1. READING 98 with a minimum grade of pass or reading level 1.2.

This career pathways course is designed to improve reading and writing while building background knowledge for entry level in the workforce. The student learns comprehension techniques, vocabulary, and writing skills needed for vocational and college courses. Promotion to English 78B will be determined by faculty after evaluation of a portfolio of the student's work. Units earned in this course do not count toward the associate degree.

ENG 078B - Accelerated Reading and Writing 2 - Units 5

Prerequisites: ENG 78A with a grade of "C" or better.

Prerequisite Skills: 1. Prerequisite Reading Level 1.3.

This contextualized course is designed to prepare students for the literacy demands of career and higher education. The course includes reading and writing in response to a variety of expository texts and reviews basic rules of grammar and usage to develop skills in paragraph and essay writing. Units earned in this course do not count toward the associate degree.

ENG 079 - Preparatory English - Units 5

Prerequisites: ENG-078B Accelerated Reading and Writing 2 with a grade of "C" or better or Composition Level II and Reading Level II.

Prerequisite Skills: 1. Reading Level II.

This pre-collegiate course, one level below College Composition, requires students to read, analyze, and respond to texts in order to write coherent essays composed of developed paragraphs. Essays may respond primarily to academic, expository non-fiction texts. Students will practice revising their essays and edit according to standards of written English.

ENG 087 - Basic Writing Skills - Units 5

Prerequisites: ENG 078B, Accelerated Reading and Writing, or ENG 070, Basic Writing Skills, with a minimum grade of C.

English 87 is designed for the student needing development in writing fluency and accuracy. Emphasis is placed on writing and editing of paragraphs and short essays based on readings. Units earned in this course do not count toward the associate degree.

ENG 095 - Intensive Reading and Composition Lab - Units 1

Prerequisites: ENG-078B Accelerated Reading and Writing 2 with a grade of "C" or better or assessment at Composition Level II.

Corequisites: ENG-001A Reading and Composition.

This lab class offers intensive instruction in writing, research, reading, and critical thinking skills to promote success in a concurrent English 001A course. This course allows a qualified Composition Level II student to bypass English 079. This course follows the freshman composition co-requisite model of acceleration.

English as a Second Language

ESL 075 - Selected Topics: English as a Second Language - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of English as a Second Language not already covered by the existing curriculum. Units earned in this course do not count toward the Associate Degree.

ESL 080 - Low-Intermediate English as a Second Language Speaking/Listening - Units 3

Prerequisite Skills: 1. Appropriate Level I placement based on the current entry exam and multiple measures. Reading and writing level 1 is appropriate for the ESL course sequence. For success in ESL 80 it is necessary for students to read, write, and communicate at the Low-Intermediate ESL level.

Advisories: - Students are strongly advised to enroll concurrently in the ESL reading/writing course of the appropriate level (ESL 82, ESL 85, or ESL 88) based on placement exam scores and multiple measures.

In addition, students are strongly advised to enroll concurrently in the ESL grammar course of the appropriate level (ESL 82, ESL 85, or ESL 88) based on placement exam scores and multiple measures. This course is designed to develop listening comprehension and oral proficiency of standard spoken English

at the low-intermediate level. Listening focuses on comprehension of modified spoken English, vocabulary in context, and ideas in speeches and discussions. Speaking focuses on clear pronunciation of common words and phrases, continued development of fluency in conversation, and proficiency in initiating, sustaining, and ending oral communication in a variety of contexts. Units earned in this course do not count toward the associate degree.

ESL 081 - Low-Intermediate English as a Second Language Grammar - Units 3

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures.*

Advisories: *Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures; in addition, students are strongly advised to enroll concurrently in the ESL reading and writing course of the same level (ESL 82).*

This course develops the student's understanding and use of academic English in preparation for employment or for beginning a vocational or academic program. It focuses on grammar and sentence structure, low-intermediate level vocabulary and paragraph writing. Units earned in this course do not count toward the Associate Degree.

ESL 082 - Low-Intermediate English as a Second Language Reading/Writing - Units 5

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures.*

Advisories: - *Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures.*

- *In addition, students are strongly advised to enroll concurrently in the ESL grammar course of the same level (ESL 81). This course develops the student's understanding and use of English in preparation for employment or for beginning a vocational or academic program. It focuses on reading strategies and comprehension, low-intermediate level vocabulary, and paragraph writing. Units earned in this course do not count toward the Associate Degree.*

ESL 083 - High-Intermediate English as a Second Language Speaking/Listening - Units 3

Prerequisites: *ESL-080 Low-Intermediate English as a Second Language Speaking/Listening with a grade of "CR" or better or Appropriate Level I placement based on the current entry exam and multiple measures.*

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures.*

Advisories: *Students are strongly advised to enroll concurrently in the ESL reading/writing course of the appropriate level (ESL 82, ESL 85, or ESL 88) based on placement exam scores and multiple measures.*

In addition, students are strongly advised to enroll concurrently in the ESL grammar course of the appropriate level (ESL 81, ESL 84, or ESL 87) based on placement exam scores and multiple measures. This course is designed to develop listening comprehension and oral proficiency of academic English for the non-native speaker, at the high-intermediate level. Listening focuses on note-taking and comprehension of spoken English in academic situations, media, and discussion. Speaking focuses on English fluency, proficiency, and strategies for discussion and personal interaction. Units earned in this course do not count toward the Associate Degree.

ESL 084 - High-Intermediate English as a Second Language Grammar - Units 3

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures.*

Advisories: *Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures; in addition, students are strongly advised to enroll concurrently in the ESL reading and writing course of the same level (ESL 85).*

This course develops the student's understanding and use of academic English in preparation for employment or for beginning a vocational or academic program. It focuses on grammar and sentence structure, high-intermediate level vocabulary and paragraph and short essay writing. Units earned in this course do not count toward the Associate Degree.

ESL 085 - High-Intermediate English as a Second Language Reading/Writing - Units 5

Prerequisites: *ESL-082 Low-Intermediate English as a Second Language Reading/Writing with a grade of "CR" or better or Appropriate Level I placement based on the current entry exam and multiple measures.*

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures or.*

Advisories: - *Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures.*

- *In addition, students are strongly advised to enroll concurrently in the ESL grammar course of the same level (ESL 84). This course builds on the student's understanding and use of English in preparation for employment or for beginning a vocational or academic program. It focuses on reading strategies and comprehension, high-intermediate level vocabulary, and paragraph and short-essay writing. Units earned in this course do not count toward the Associate Degree.*

ESL 086 - Advanced English as a Second Language Speaking/Listening - Units 3

Prerequisites: *ESL-083 High-Intermediate English as a Second Language Speaking/Listening with a grade of "CR" or better or Appropriate Level I placement based on the current entry exam and multiple measures.*

Prerequisite Skills: 1. *Appropriate Level I placement based on the current entry exam and multiple measures or*

Advisories: - *Students are strongly advised to enroll concurrently in the ESL reading/writing course of the appropriate level (ESL 82, ESL 85, or ESL 88) based on placement exam scores and multiple measures.*

In addition, students are strongly advised to enroll concurrently in the ESL grammar course of the appropriate level (ESL 81, ESL 84, or ESL 87) based on placement exam scores and multiple measures. This course is designed to develop listening comprehension and oral proficiency of academic and professional English for the non-native speaker, at the advanced level. Listening focuses on note-taking and comprehension of spoken English in academic and professional situations, media, and discussion. Speaking focuses on fluency of English speech, proficiency in clarifying and restating, and strategies for facilitating discussion. Units earned in this course do not count toward the Associate Degree.

ESL 087 - Advanced English as a Second Language Grammar - Units 3

Prerequisite Skills: 1. *Appropriate Level I placement based on*

the current entry exam and multiple measures.

Advisories: Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures; in addition, students are strongly advised to enroll concurrently in the ESL reading and writing course of the same level (ESL 88).

This course enhances the student's foundation in academic English in preparation for employment or for beginning a vocational or academic program. It focuses on advanced grammar and sentence combining, vocabulary, and paragraph and essay writing. Units earned in this course do not count toward the Associate Degree.

ESL 088 - Advanced English as a Second Language Reading/Writing - Units 5

Prerequisites: ESL-085 High-Intermediate English as a Second Language Reading/Writing with a grade of "CR" or better or appropriate Level I placement on the Combined English Language Skills Assessment (CELSA) and multiple measures.

Prerequisite Skills: 1. Appropriate Level I placement on the current entry exam and multiple measures.

Advisories: Students are strongly advised to enroll concurrently in the ESL Speaking/listening course of the appropriate level (ESL 80, ESL 83, or ESL 86) based on placement exam scores and multiple measures; in addition, students are strongly advised to enroll concurrently in the ESL grammar course of the same level (ESL 87).

This course enhances the student's foundation in English in preparation for employment or for beginning a vocational or academic program. It focuses on reading strategies, fluency, advanced vocabulary, comprehension, and paragraph and essay writing. Units earned in this course do not count toward the Associate Degree.

Family & Consumer Sciences

FCS 002 - Life Management - Units 3

This course is an introduction to life management skills, providing an understanding of personal development. Students will learn how to function effectively in society. Major topics include effects of cultural forces and future trends on values, goal setting, decision-making; and time, money, stress, and conflict management. Techniques for improving self-understanding and interpersonal relationships will also be discussed. (CSU)

FCS 003 - Home Management and Finance - Units 3

This course is designed to introduce basic home management principles that apply to personal and family finance. Study is given to consumer services available; to the understanding of consumer problems related to family finance management in the current economy; and to financial planning for the future. (CSU)

FCS 006 - Nutrition - Units 3

Prerequisite Skills: 1. Reading Level II 2. Advisory Eligibility for ENG 001A.

This course presents scientific concepts of nutrition related to the function of nutrients in basic life processes and current health issues with emphasis on individual needs. Emphasis is given to the role of food choices and physical activity on health, body weight, and risk of disease. Students undertake a self-study of personal dietary intake and habits compared to the Dietary Guidelines for Americans. (CSU, UC)

FCS 015 - Selected Topics: Family and Consumer Sciences - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of family and consumer sciences not already covered by existing curricula. (CSU)

FCS 019 - Human Development - Units 3

Prerequisites: Reading Level II.

This course is an integration of the physiological, cognitive, sociological, and psychological aspects of human development throughout the lifespan. The course is a study of the developmental tasks facing individuals at various points in the life cycle and the ways social interaction and cultural institutions shape the development of the individual. The course is designed as a foundation course for careers in educational, social service, psychological, and health fields. (UC, CSU)

FCS 023 - Marriage and the Family - Units 3

This course is an interdisciplinary approach to marriage and family interpersonal relationships, changing family roles, sexuality, cultural diversity of families, the family life cycle, parenthood, and contemporary family issues. Special emphasis is placed on making choices, communication in relationships, understanding flexibility in family structures, and resolving interpersonal problems. (CSU)

FCS 050H - Special Studies: Family and Consumer Sciences - Units 1-2

Prerequisites: Completion of entry level Family & Consumer Sciences courses with a grade of B or better.

This course is open to any student qualified to do advanced work in the field of family and consumer sciences or closely related areas. The course includes research, directed reading, field work, or other advanced study. (CSU)

FCS 080 - Selected Topics: Family and Consumer Sciences - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of family and consumer sciences not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

Fashion

FASHION 002 - Introduction to the Fashion Industry - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to the fashion industry, providing an overview of how the business of business works, from raw materials to the production and retail distribution of fashion goods. The areas of fashion design, production, methods of predicting consumer demand, buying, pricing, retailing, and promoting fashion products are analyzed. (CSU)

FASHION 004 - Fashion Product Analysis - Units 3

This course is designed to increase the student's knowledge of fashion products in the market. Areas of production, content, use, value, durability, versatility, care and the price of goods will be evaluated. An in-depth analysis of apparel and accessories for women, men, and children, as well as cosmetics, is covered. (CSU)

FASHION 006 - Textiles - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to textiles used in fashion and interiors. Natural and man-made fibers, yarns, fabric construction,

coloring and finishing are examined. Emphasis is placed on fabric performance, serviceability, and the consumer's role in the textile field. (UC, CSU)

FASHION 008 - History of Fashion to the Twentieth Century - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is a survey of costume from ancient times to the twentieth century. The course uses an interdisciplinary approach to show how clothing is used as a universal means of symbolizing roles and social position, emphasizing the ways clothing communicates values and attitudes, and how costume is a reflection of trends in technology, music, literature, art, interior design and social values. (CSU)

FASHION 009 - History of Fashion from the Twentieth Century to Present - Units 3

This course is a survey of fashion from the beginning of the twentieth century to the present day. The course uses an interdisciplinary approach to show how clothing is used as a universal means of symbolizing roles and social position, emphasizing the ways clothing communicates values and attitudes, and how fashion is a reflection of trends in technology, music, literature, art, interior design and social values. Specific designers who influenced fashion of the past and present will be examined. (CSU)

FASHION 010 - Clothing and Culture - Units 3

Advisories: Reading level II.

This course is a study of clothing and its relationship to culture, society, and the individual. The psychological and sociological influences of dress, the physical aspects of appearance, and the influences of gender, sexuality, ethnicity, and class on the development of personal identity are explored through the study of style in traditional cultures, popular culture and everyday life. (CSU)

FASHION 015 - Selected Topics: Fashion - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Department not already covered by the existing curriculum. (CSU)

FASHION 018 - Consumer Behavior in Fashion and Interiors - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course is designed to provide students with an overview of the important trends in consumer behavior in the fashion and interiors environments. Students will explore the factors that influence consumer purchases of fashion and home goods and patterns of purchasing behavior within the retail environment. (CSU)

FASHION 019 - Retailing Fashion and Interiors - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course provides a multi-dimensional approach in educating students for careers in the fashion and interior retail industry by combining studies in business fundamentals with theory. All phases of retailing for fashion and interiors are covered, including business organization, buying, merchandising, marketing and consumer behavior. (CSU)

FASHION 021 - Trend Forecasting for Fashion & Interiors - Units 2

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course will introduce students to forecasting and its use by the creative design industries with the aim of developing an intuitive and intellectual approach to predicting future trends, on both fashion and interiors, as well as consumer behavior and retailing. The course provides students with in-depth knowledge of the relationship between forecasting, trend prediction, marketing, economics and style movements. The student will develop research skills in historical context, consumer trends and buying patterns, fads, crazes and cults, all of which play a part in the analysis of style movements. (CSU)

FASHION 022 - Fashion Promotion and Marketing - Units 3

This course is designed to acquaint the student with different activities in fashion promotion and the marketing tools related directly to creating specific promotional strategies used in fashion environments. Students learn to develop an integrated marketing plan through a combination of advertising, direct mail, sales promotion, publicity, public relations, personal selling, special events, and visual merchandising. (CSU)

FASHION 024 - Visual Merchandising/Store Design I - Units 3

This course is designed to acquaint the student with the basic techniques of effective visual merchandising and retail store design, including history, terminology, types, components, and the structure of visual merchandising products, departments and retail stores. Course activities include designing, constructing and installing visual displays and designing fashion-related retail store environments. (CSU)

FASHION 028A - Fashion Event Production - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry and FASHION-022 Fashion Promotion and Marketing each with a grade of "C" or better and.

This course is an overview of fashion event production, including market research, audience identification, visual merchandising, direct marketing, sponsorship, press releases, electronic media, publicity and advertising, and the primary purpose---merchandising the product through special events used in the fashion industry. All areas of event production planning from start to finish will be covered: planning through presentation to wrap-up and evaluation. Students will gain direct "hands-on" experience in the design, development, direction and co-ordination of all aspects required to produce a fashion production. (CSU)

FASHION 028B - Fashion Event Production Lab I - Units 1.5

Prerequisites: FASHION-028A Fashion Event Production with a grade of "C" or better.

This course is designed for students who have completed Fashion 28A and want to develop further the skills and techniques of event production management they were exposed to in Fashion 28A. The student will gain direct "hands-on" experience in the design, development, direction and co-ordination of all aspects required to produce fashion productions and events. (CSU)

FASHION 030 - Basic Industry Sewing - Units 3

Prerequisite Skills: 1. Reading Level II.

This course introduces the student to the basic sewing techniques used in apparel design and production. Students learn to select and use sewing equipment, fabric and patterns, interpret and use commercial patterns, minor pattern adjustments. Students learn

to use industry construction techniques on commercial sewing machines and sergers. (CSU)

FASHION 031 - Intermediate Industry Sewing - Units 3

Prerequisites: FASHION-030 Basic Industry Sewing with a grade of "C" or better.

This course is designed to build on the skills learned in Fashion 30 by introducing intermediate industry sewing techniques, pattern fit and alterations, as well as applying and evaluating appropriate construction methods for garments. Unique fashion fabrics, linings and shaping materials are used. (CSU)

FASHION 032 - Advanced Industry Sewing - Units 3

Prerequisites: FASHION-031 Intermediate Industry Sewing with a grade of "C" or better.

This course provides students with advanced methods, techniques, terminology, and equipment used specifically in sample room sewing (as opposed to home sewing), simulating mass production procedures and focusing on the application and evaluation of advanced industrial clothing construction techniques, pattern alterations, and fitting. (CSU)

FASHION 033 - Alterations and Fit - Units 3

Prerequisites: FASHION-031, Intermediate Industry Sewing, one.

This course is designed to provide the student with skills necessary to fit and alter ready-to-wear or custom garments to customer specifications. The student learns techniques for fitting garments to various body types and the skills for altering commercial and custom patterns, as well as operating home and commercial sewing machines, pressing equipment, and sewing tools. (CSU)

FASHION 036 - Flat Pattern I - Units 3

Prerequisites: FASHION-030, Basic Industry Sewing, with a grade of "C" or better.

This course is a study of the industry techniques of flat pattern-making and basic slopers for the bodice, sleeve, and skirt to standard sizes. Use of slopers as a foundation for designing workroom sample patterns for shirts, blouses, and skirts to industry sizes are discussed and analyzed. Students create style variations by manipulating basic pattern blocks which are transferred from sketches into usable first patterns for apparel productions. Sample garments are then created from the patterns. (CSU)

FASHION 037 - Flat Pattern II - Units 3

Prerequisites: FASHION-036 Flat Pattern I with a grade of "C" or better.

This course is a continuation of Fashion 36. Advanced flat patternmaking techniques are emphasized for both woven and knit fabrics. Students draft style variations for sportswear, activewear and outerwear designs using basic pattern blocks. First patterns are developed and sample garments constructed and tested for fit on industry dress forms. (CSU)

FASHION 038 - Fashion Design by Draping - Units 3

Prerequisites: FASHION-031, Intermediate Industry Sewing, with a grade of "C" or better.

Advisories: FASHION-036 with a grade of "C" or better.

This course is a study of the development of fashion designs through draping fabric on dress forms. Students create patterns from completed drapes and construct slopers, samples and finished garments. (CSU)

FASHION 042 - Couture Techniques I-Embellishments - Units 3

Prerequisites: FASHION-031 Intermediate Industry Sewing

with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

This course will provide students with instruction on the specialist hand stitching skills and decorative techniques of embellishments used in couture sewing. (CSU)

FASHION 050H - Special Studies: Fashion - Units 1-2

Advisories: FASHION-002 or FASHION-031 each with a grade of "C" or better.

This course is open to the student who is qualified to do advanced work in the field of fashion. The course includes research, directed reading, field work, or other advanced study. (CSU)

FASHION 051 - Beginning Fashion Illustration - Units 2

This course is designed to develop rendering skills necessary for the students pursuing a fashion design career. Emphasis is placed on developing basic techniques for drawing the fashion face and proportioned croquis, as well as rendering the figure, fashion garments and fabrics. Students will learn step-by-step techniques of rendering. It is recommended that students be able to read a ruler. (CSU)

FASHION 052 - Advanced Fashion Illustration - Units 2

Prerequisites: FASHION-051 Beginning Fashion Illustration with a grade of "C" or better.

This course provides students with advanced graphic skills, including advanced techniques for croquis rendering and the figure in motion, fashion styles and fabrics, as well as flats used in marketing fashion to the retail trade. Advanced mediums, including pencil, water color, acrylic, colored pencil, and pens are explored. (CSU)

FASHION 054 - Collection Design and Production I - Units 4

Prerequisites: FASHION-031, Intermediate Industry Sewing, and FASHION-036, Flat Pattern I, and FASHION-051, Beginning Fashion Illustration, each with a grade of "C" or better.

This course provides students with the skills to produce a grouping of original apparel garments that would be showcased in an apparel collection. Students apply the skills obtained in previous design and pattern making classes in creating a collection of original garments aimed at a specific target market. Topics include designing a small collection, creating and modifying patterns, constructing original garments, and identifying target consumer markets. Finished collections are showcased on the runway in a fashion show. (CSU)

FASHION 055 - Collection Design and Production II - Units 4

Prerequisites: FASHION-054, Collection Design and Production I, with a grade of "C" or better.

This course provides students with advanced skills and experience to produce a grouping of original apparel garments that would be showcased in an apparel collection. Students apply the skills obtained in the previous Collection Design and Production class to the creation of a cohesive collection of original garments aimed at a specific target market. Topics include designing collections from an inspiration, creating and modifying patterns, constructing original garments, and identifying target consumer markets. Finished collections are showcased on the runway in a fashion show. (CSU)

FASHION 058 - Fashion Entrepreneurship - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry with grade of "C" or better; FASHION-018 Consumer Behavior in Fashion and Interiors or FASHION-019 Retailing

Fashion and Interiors or FASHION-022 Fashion Promotion and Marketing each with a grade of "C" or better.

Corequisites: FASHION-018 Consumer Behavior in Fashion and Interiors or FASHION-019 Retailing Fashion and Interiors.

This course provides an overview of the fashion entrepreneurial opportunities in the apparel and sewn products industry. The course is designed for individuals considering a small business relating to fashion, fabric, color, pattern work, and sewing profit and will focus on the process of starting a small business. (CSU)

FASHION 075 - Selected Topics: Fashion - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Fashion not already covered by the existing curriculum.

Foster and Kinship Care

FKC 075 - Selected Topics: Foster and Kinship Care - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Foster and Kinship Care not already covered by the existing curriculum.

FKC 096 - Parenting Children in Foster and Relative Care - Units 0.5

This course is a parenting approach to understanding and managing the care of foster, kinship/guardianship and adoptive children. Topics may include impact of placements, mental health and wellness, self-care, and healthy and unhealthy relationships. This course will apply toward mandated California foster parent continuing education requirements.

FKC 099C - Supporting Relationships between Children and Their Families - Units 0.5

This course is designed to identify the ongoing role that birth families play in the development of foster and adoptive children. Methods for involving birth families in meeting children's developmental needs are outlined.

FKC 099F - Using Discipline to Protect and Nurture - Units 1

This course is designed to identify methods of discipline that can be utilized by the foster or adoptive parents to protect, nurture, and meet the developmental needs of children.

FKC 099G - Promoting Children's Personal and Cultural Identity - Units 0.5

This course is designed to identify the importance of promoting the self-esteem of the foster or adoptive child through personal history and culture. Techniques for promoting a positive sense of identity are emphasized.

FKC 099L - Parenting Premature and Chemically Exposed Infants - Units 0.5

This course is designed to prepare the student for the responsibility of caring for premature and/or chemically exposed infants. Emphasis is placed on parenting foster and adoptive infants, and infants in the care of relatives. This course will apply toward annual foster parent continuing education requirements.

FKC 099M - Parenting Children with Special Needs - Units 1

This course is designed to enhance the skills of parents caring for children with Attention Deficit Hyperactivity Disorder (ADHD) and other learning disabilities; emotional disorders-including anxiety and depression; and physiological childhood illnesses and

disabilities. Emphasis is placed on parenting foster and adoptive children, and children in the care of relatives. This course will apply toward annual foster parent continuing education requirements.

FKC 196 - Parenting Children in Foster and Relative Care - Units 0

This course is a parenting approach to understanding and managing the care of foster, kinship/guardianship and adoptive children. Topics may include impact of placements, mental health and wellness, self-care, and healthy and unhealthy relationships. This course will apply toward mandated California foster parent continuing education requirements.

FKC 199L - Parenting Premature and Chemically Exposed Infants - Units 0

This course is designed to prepare the student for the responsibility of caring for premature and/or chemically exposed infants. Emphasis is placed on parenting foster and adoptive infants, and infants in the care of relatives. This course will apply toward annual foster parent continuing education requirements.

FKC 199M - Parenting Children with Special Needs - Units 0

This course is designed to enhance the skills of parents caring for children with Attention Deficit Hyperactivity Disorder (ADHD) and other learning disabilities; emotional disorders-including anxiety and depression; and physiological childhood illnesses and disabilities. Emphasis is placed on parenting foster and adoptive children, and children in the care of relatives. This course will apply toward annual foster parent continuing education requirements.

French

FREN 001 - Elementary French I - Units 5

This course is an introduction to the French language and French cultures/geographical area studies. Emphasis is placed on communication skills (listening, speaking, reading, and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). (UC, CSU)

FREN 002 - Elementary French II - Units 5

Prerequisites: FREN-001 Elementary French with a grade of "C" or better.

This course is a second semester introduction to the French language and French cultures/geographical areas. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). (UC, CSU)

FREN 003 - Intermediate French I - Units 5

Prerequisites: FREN-002 Elementary French with a grade of "C" or better.

This course is designed to offer study at the intermediate level of the French language and French cultures/geographical area studies. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). Efforts to improve reading and composition skills are based on both contemporary and traditional selection of literary texts. (UC, CSU)

FREN 004 - Intermediate French II - Units 5

Prerequisites: FREN-003 Intermediate French with a grade of

"C" or better.

This course is designed to offer continued study at the intermediate level of the French language and French cultures/geographical area studies. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). Efforts to improve reading and composition skills are based on both contemporary and traditional selection of literary texts. (UC, CSU)

FREN 005 - Advanced French - Units 5

Prerequisites: FREN-004 Intermediate French with a grade of "C" or better.

This course is designed to provide the student with a more detailed study of grammatical concepts, refinement of vocabulary and further practice in composition at a more advanced level. The student will continue the study of literature, culture and civilization. (UC, CSU)

FREN 015 - Selected Topics: French - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of French not already covered by the existing curriculum. (CSU)

FREN 036A - Introductory French Conversation - Units 2

Prerequisites: FREN-001 Elementary French with a grade of "C" or better.

This course is designed to strengthen fundamental communication patterns based on typical daily situations. (CSU)

FREN 036B - Beginning French Conversation - Units 2

Prerequisites: FREN-002 Elementary French with a grade of "C" or better.

This course is designed to achieve conversational ability based on typical daily situations. (CSU)

FREN 050H - Special Studies: French - Units 1-2

Prerequisites: FREN-004 Intermediate French with a grade of "B" or better.

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

FREN 075 - Selected Topics: French - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of French not covered by the existing curriculum. Units in this course do not count toward an associate degree.

Geography

GEOG 001 - Physical Geography - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed as a study of the natural environment. Individual topics include maps, time zones, seasons, weather, climate, the hydrologic cycle, natural vegetation, soils and landforms. (UC, CSU, C-ID GEOG 110)

GEOG 001L - Physical Geography Laboratory - Units 1

Prerequisites: GEOG-001 Physical Geography with a grade of

"C" or better.

Corequisites: GEOG-001 Physical Geography.

This course is designed as a series of laboratory exercises involving weather, climate and landforms with emphasis on problem solving, map reading and landscape interpretation. The course correlates with topics from Physical Geography. Physical Geography Laboratory plus Physical Geography satisfies the laboratory science requirements for general education. (UC, CSU, C-ID GEOG 111)

GEOG 002 - Cultural Geography - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed as a systematic review of the major topics in human geography: population, culture, (race, language, religion, music), economic activities, settlement patterns, including urbanization, and political geography. (UC, CSU, C-ID GEOG 120)

GEOG 003 - Geography of California - Units 3

This course is designed to introduce the student to California's unique physical, cultural and economic environments. The emphasis is on the interactions of landforms, climate, natural vegetation, soils and resources with people. The diversity of geographic regions will be analyzed together with human modifications of the landscape. Also, California's changing demographics will be examined in light of cultural and ethnic distributions and influences. (UC, CSU, C-ID GEOG 140)

GEOG 010 - World Regional Geography - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is designed to survey the physical, cultural, and economic geography of the world's regions: Europe, Asia, Africa, the Americas, and Oceania using a regional geographic approach. Current events and regional problems are examined. (UC, CSU, C-ID GEOG 125)

GEOG 015 - Selected Topics: Geography - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Geography not already covered by the existing curriculum. (CSU)

GEOG 050H - Special Studies: Geography - Units 1-2

Prerequisites: GEOG-001 Physical Geography or GEOG-002 Cultural Geography or GEOG-003 Geography of California or GEOG-010 World Regional Geography each with a grade of "B" or better.

This course is designed to provide research opportunities for the advanced student. Topics must be approved by the geography staff and the division chairperson. (CSU)

GEOG 075 - Selected Topics: Geography - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Geography not already covered by the existing curriculum.

Geology

GEOG 001A - Physical Geology w/Lab - Units 4

Prerequisites: MATH-090 Beginning Algebra or higher-level Math (min C), or a minimum of Level 4 on the Math Skills assessment and ENG-079 Preparatory English each with a grade of "C," or better or higher-level ENG (min C), or a minimum of level 3 on the Composition/Writing Skills

assessment.

Prerequisite Skills: 1. Reading Level II or higher.

This course is an introduction to the principles of geology with emphasis on Earth processes. This course focuses on the internal structure and origin of the Earth and the processes that change and shape it. The laboratory component focuses on the identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and effects of tectonic activity. Field trip(s) may be required. This course is designed for science majors. (UC, CSU, C-ID GEOL 101)

GEOL 001B - Historical Geology w/Lab - Units 4

Prerequisites: GEOL-001A Physical Geology w/Lab with a grade of "C" or better.

This course is an introduction to Earth's history and the life it supports. Subjects include geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years. The laboratory component includes geologic dating, plate tectonics, stratigraphy, fossils, biological evolution, the planet's origin and the processes that have influenced paleogeography during the past 4.6 billion years. (UC, CSU, C-ID GEOL 111)

GEOL 005 - Earth Science - Units 3

Prerequisites: MATH-080 Elementary Algebra (or higher MATH), or assessment Level 4 or higher on the Math placement test, AND ENG-079 Preparatory English each with a grade of "C" or better (or higher ENG), or Composition Level 3 or higher.

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. UC, CSU, CID GEOL 120)

GEOL 005A - Earth Science w/Laboratory - Units 4

Prerequisites: MATH-090, Beginning Algebra, or assessment Level 4 or higher on the Math placement test; and ENG-079, Preparatory English, each with a grade of "C" or better or Composition Level 3 or higher.

This course is an introduction to the essentials of Earth Science with a laboratory. Topics include the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. (CSU, UC, C-ID GEOL 121)

GEOL 005L - Earth Science Laboratory - Units 1

Prerequisites: GEOL-005 Earth Science with a grade of "C" or better.

Corequisites: GEOL-005 Earth Science.

This course is the laboratory component to the essentials of Earth Science including the geosphere, atmosphere, hydrosphere, and solar system. This course focuses on the physical and chemical systems of the Earth such as the tectonic cycle, rock cycle, hydrologic cycle, weather and climate. (UC, CSU, C-ID GEOL 120L)

GEOL 010 - General Geology - Units 3

Prerequisites: Reading Level II.

Advisories: ENG 001A, Reading and Composition, with a minimum grade of "C" and MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH-082,

Intermediate Algebra, with a minimum grade of "C".

This course is an introduction to the processes that are at work changing the Earth today. Within the context of global tectonics, it explores the origins of rocks and minerals and the dynamics of processes such as igneous activity and seismicity that are driven by Earth's internal heat. It also examines how air, water, and ice move in response to gravity and energy from the Sun, sculpting Earth's surface by eroding, transporting and depositing weathered rock materials. Additionally, the origin and history of the Earth including its place in the solar system, geologic dating methods, and geologic resources and disasters (e.g., earthquakes, flooding, volcanic hazards, etc.) are explored. This course is designed for non-science majors. 3 hours lecture each week. (UC, CSU)

GEOL 015 - Environmental Geology - Units 3

Prerequisites: MATH 090 with a minimum grade of "C" or better or higher level math or level 4 or higher on the math placement test; ENG 079 with a minimum grade of "C" or better or higher level ENG or composition level 3 or higher.

This course is an introduction to the fundamentals of Environmental Geology, including the interactions between and impacts of humans with the environment in a geologic context. The course emphasizes the Earth system and connections between the geosphere, biosphere, atmosphere, and hydrosphere. (UC, CSU, CID GEOL 130)

GEOL 015A - Environmental Geology w/Lab - Units 4

Prerequisites: MATH-090, Beginning Algebra, or Level 4 or higher on the Math placement test, and ENG-079, Preparatory English, each with a grade of "C" or better or Composition Level 3 or higher.

This course is an introduction to the fundamentals of Environmental Geology with laboratory. Topics include the interactions between and impacts of humans with the environment in a geologic context. Course emphasizes the Earth system and connections between the geosphere, biosphere, atmosphere, and hydrosphere. (UC, CSU, C-ID GEOL 131)

GEOL 016 - Oceanography - Units 3

Prerequisites: MATH 090 with a minimum grade of "C" or better or a minimum of level 4 on the math assessment test; ENG 079 with a minimum grade of "C" or better or composition level 3 or higher.

This course is an introduction to the marine environment. Students explore the physical, geological, chemical and biological characteristics of the world ocean. Topics include plate tectonics, waves and tides, ocean circulation, coastal features and beach processes, origin and structure of ocean basins, sediments, ocean chemistry, productivity, and life in the ocean. (UC, CSU)

GEOL 016A - Oceanography w/Lab - Units 4

Prerequisites: MATH-090 Beginning Algebra or higher-level Math minimum "C" or better, or a minimum of Level 4 on the Math placement test; and ENG-079 Preparatory English each with a minimum grade of "C" or better or higher-level ENG minimum "C" or better, or Composition Level 3 or higher assessment.

This course is an introduction to the marine environment. Students explore the physical, geological, chemical and biological characteristics of the world ocean. Topics include plate tectonics, waves and tides, ocean circulation, coastal features and beach processes, origin and structure of ocean basins, sediments, ocean chemistry, productivity, and life in the ocean. (UC, CSU)

GEOL 025 - Selected Topics: Geology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Geology not already covered by the existing curriculum. (CSU)

GEOL 075 - Selected Topics: Geology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Geology not already covered by the existing curriculum.

German**GERM 001 - Elementary German I - Units 5**

This course is an introduction to the German language and the cultures of the German-speaking countries. It develops proficiency in elementary German listening, speaking, reading, and writing skills. It explores the cultures of German-speaking countries by analyzing behaviors, institutions, perspectives and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

GERM 002 - Elementary German II - Units 5

Prerequisites: GERM-001 Elementary German with a grade of "C" or better.

This course continues to develop proficiency in German listening, speaking, reading, and writing skills on the advanced elementary level. It continues to explore the cultures of German-speaking countries by analyzing behaviors, institutions, perspectives and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

GERM 003 - Intermediate German I - Units 5

Prerequisites: GERM-002 Elementary German with a grade of "C" or better.

This course offers continued study of the German language and cultures. Efforts to improve reading and composition skills are based on both contemporary and traditional selection of literary texts. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

GERM 004 - Intermediate German II - Units 5

Prerequisites: GERM-003 Intermediate German with a grade of "C" or better.

This course offers continued study of the German language on the advanced intermediate level. Efforts to further develop reading and composition skills are based on both contemporary and traditional selection of literary texts. It continues to explore the culture of the German-speaking countries. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

GERM 015 - Selected Topics: German - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of German not already covered by the existing curriculum. (CSU)

GERM 050H - Special Studies: German - Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; GERM 4 with a grade of "B" or better.

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

GERM 075 - Selected Topics: German - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of German not covered by the existing curriculum. Units in this course do not count toward an associate degree.

Graphic Arts**GRART 001A - Digital Imaging - Units 2**

This course is the introductory-level study of concepts and techniques utilized in the design, manipulation, and integration of images in a digital format. The student creates images using electronic media including computer software, scanners, and printers. (UC, CSU)

GRART 001B - Digital Imaging - Units 2

Prerequisites: GRART-001A Digital Imaging with a grade of "C" or better.

This course is the beginning-level study of concepts and techniques utilized in the design, manipulation, and integration of images in a digital format. The student creates images using electronic media including computer software, scanners, and printers. (UC, CSU)

GRART 002A - Layout Design - Units 3

This course is the introductory-level study of concepts and techniques utilized in the design of publication layouts. Topics include typography, use of color, use of graphics, and the process of concept design. The student creates publication layouts using electronic media including computer software and printers. (UC, CSU)

GRART 002B - Layout Design - Units 3

Prerequisites: GRART-002A Layout Design with a grade of "C" or better.

This course is the beginning-level study of concepts and techniques utilized in the design of publication layouts. Topics include typography, use of color, use of graphics, and the process of concept design. The student creates publication layouts using electronic media including computer software and printers. (UC, CSU)

GRART 003A - Computer Art - Units 2

This course is the introductory-level study of concepts and techniques utilized in the design of graphic art in a digital format. The course stresses the aesthetics of color, composition, and message in the design process. The student creates art using electronic media including computer software and printers. (UC, CSU)

GRART 003B - Computer Art - Units 2

Prerequisites: GRART-003A Computer Art with a grade of "C" or better.

This course is the beginning-level study of concepts and techniques utilized in the design of graphic art in a digital format. The course stresses the aesthetics of color, composition, and message in the design process. The student creates art using electronic media including computer software and printers. (UC, CSU)

GRART 004A - Graphic Design for the World Wide Web - Units 2

Advisories: CSW-039 with a grade of "C" or better.

This course is the introductory-level study of concepts and techniques utilized in the aesthetic development, design, and layout of World Wide Web pages. The student creates web designs using electronic media including Hypertext Markup

Language (HTML) editor and other design-based computer software. This is not a course in HTML. (CSU)

GRART 004B - Graphic Design for the World Wide Web - Units 2

Prerequisites: GRART-004A *Graphic Design for the World Wide Web with a grade of "C" or better.*

This course is the beginning-level study of concepts and techniques utilized in the aesthetic development, design, and layout of World Wide Web pages. The student creates web page designs using electronic media including Hypertext Markup Language (HTML) editor and other design-based computer software. This is not a course in HTML. (CSU)

GRART 005 - Selected Topics: Graphics Arts - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of graphic arts not already covered by the existing curriculum. (CSU)

GRART 006A - Publication Design - Units 4

This course is the introductory-level study and design development of pre-press print topics. Topics include color theory as applied to graphic design; color management in digital pre-press and commercial processes; integration of digital imaging and design graphics; color separations; and paper selection. The student creates publications using electronic media. (CSU)

GRART 006B - Publication Design - Units 4

Prerequisites: GRART-006A *Publication Design with a grade of "C" or better.*

This course is the beginning-level study and design development of pre-press print projects. Topics include color theory as applied to graphic design; color management in digital pre-press and commercial processes; integration of digital imaging and design graphics; color separations; and paper selection. The student creates publications using electronic media. (CSU)

GRART 050H - Special Studies: Graphic Arts - Units 1-2

Prerequisites: GRART-001A *Digital Imaging or GRART-002A Layout Design or GRART-003A Computer Art or GRART-004A Graphic Design for the World Wide Web or GRART-006A Publication Design each with a grade of "B" or better.*

This course is designed to allow a qualified student to do advanced work in the field of graphic arts. The course includes research, directed reading, field work, and/or other advanced study. (CSU)

GRART 080 - Selected Topics: Graphic Arts - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to offer instruction in one or more of the specialized areas of graphic arts not already covered by the existing curriculum. Units in this course do not count toward an associate degree.

Guidance

GUID 005 - Enhancing Self-Esteem, Cultural Awareness, and College Success - Units 3

This course is designed to enable the student to focus on the development of self-esteem and personal responsibility leading to college success. The course includes discussion of cultural awareness and diversity. This course is also designed to enhance academic skills, and knowledge about campus resources. Other aspects covered are choosing a major, and career exploration. (CSU)

GUID 008 - Education and Interpersonal Growth - Units 3

This course is designed to foster personal development through a decision-making process which includes self-awareness, value systems, patterns of communication, changing lifestyles and how these factors impact on the student's education, growth, and goals. (CSU)

GUID 011 - New Student Orientation - Units 0.5

This is an eight-hour orientation for new and returning students. This course is an overview of certificates, associate degrees and transfer requirements as well as the registration process and student services. Students create a one semester course list with a counselor. (CSU)

GUID 013 - Introduction to College & Educational Planning for ESL Students - Units 1

This course is an introduction to the college experience and the educational planning process through counseling and advising for ESL (English as a Second Language) students. This course assists ESL students in the development of a comprehensive Student Education Plan (SEP). The course topics include student services and resources, reviewing higher education systems and establishing academic and career goals. (CSU)

GUID 014 - Introduction to College & Educational Planning for Student Athlete - Units 1

This course is an introduction to the college experience and the educational planning process through counseling for students participating in intercollegiate sports. This course assists student athletes in the development of a comprehensive Student Education Plan (SEP). The course topics include student services and resources, reviewing higher education systems and establishing academic and career goals as well as information on National Collegiate Athletic Association (NCAA) eligibility. (CSU)

GUID 015 - Selected Topics in Guidance - Units 0.5-4

This course is designed to offer instruction in Guidance topics that are not covered by the existing curriculum. (CSU)

GUID 018A - Single Parents as Students: Codependency Issues - Units 1

This course is designed for Extended Opportunity Programs and Services (EOPS) student enrolled in Cooperative Agencies Resources for Education (CARE). The goal of this course is to provide information on gaining self-awareness by understanding the roots of codependency and movement towards personal recovery. (CSU)

GUID 018B - Single Parents as Students: Campus and Community Resources - Units 1

This course is designed for the Extended Opportunity Programs and Services (EOPS) student enrolled in Cooperative Agencies Resources for Education (CARE). The student obtains educational support information through a series of campus and community presentations. The goal of this course is to empower the student to access the necessary resources to be successful in college. (CSU)

GUID 018C - Single Parents as Students: Stress Management - Units 1

This course is designed for the Extended Opportunity Programs and Services (EOPS) student enrolled in Cooperative Agencies Resources for Education (CARE). The goal of this course is to assist the student in lowering his/her level of stress by understanding, recognizing, and managing interpersonal stressors. (CSU)

GUID 019 - Introduction to College and Educational Planning - Units 1

This course is an introduction to the college experience and the educational planning process through counseling and advising. This course assists students in the development of a comprehensive Student Education Plan (SEP). The course topics include student services and resources, reviewing higher education systems, and establishing academic and career goals. (CSU)

GUID 020 - Transition to University Life - Units 1

This course is designed to assist community college students with transferring to a public or private four-year university. The course provides students with information on higher education systems such as University of California (UC), California State University (CSU) and University of the Pacific. Students explore transfer options from academic, financial, and personal development perspectives. Topics include understanding admission requirements and deadlines, identifying financial aid resources, and housing options. Students will meet with a counselor and build an individual Student Education Plan (SEP) based on their educational and career goals. (CSU)

GUID 030 - Career Self-Assessment - Units 1

Advisories: READING-091A.

This course is designed to introduce the student to the career life planning process. The course emphasizes self-assessment as the first major step in the career life planning process. The student identifies his/her personality, strengths, skills, interests, values, and preferred lifestyle leading to potential career choices. (CSU)

GUID 031 - Career Exploration - Units 1

This course is designed to provide the student with opportunities to explore specific occupations of his/her choice through utilization of career transfer center and internet resources. The course includes investigation of job duties, training, educational requirements, desired employee characteristics, salary ranges, and future employment trends. (CSU)

GUID 032 - Career Information Interviewing - Units 1

This course is designed to assist the student in obtaining career information directly from individuals employed in areas of student's career interest by conducting information interviews. The course includes information on how to create a networking system, make initial contacts, prepare interview questions, direct the information interview, and analyze information obtained. (CSU)

GUID 033 - Job Seeking Skills - Units 1

This course is designed to assist the student with development of successful job search techniques including networking, resume writing, and job interviewing skills. The course includes techniques on how to find and obtain a desired job. Information about the hidden job market is included. (CSU)

GUID 034 - Extended Activities I: Researching Career Options - Units 0.5

Advisories: GUID 030, 031, 032, and 033.

This course is designed for the student who seeks additional assistance in researching his/her individualized career life plan. The student completes assignments that may include assessment of skills, interests, and values in a structured and supportive lab environment devoted to career and education resources. Students may also participate in approved workshops as well as utilize campus and community resources. The student also attends a mandatory Guidance 34 orientation session. (CSU)

GUID 035 - Extended Activities II: Choosing a Career Path - Units 0.5

Advisories: GUID 034.

This course is designed for the student who seeks to further study, research, and choose a career path in a structured and supportive lab environment devoted to career and education resources. The student completes assignments that provide additional opportunities to self-assess, examine, and create a plan chosen from among his/her career option. Students may also participate in approved workshops and utilize campus and community resources. (CSU)

GUID 036 - Extended Activities III: Resources for Program Completion - Units 0.5

Advisories: GUID 020 and GUID 035.

This course is designed for the student who seeks individualized assistance with various admission and graduation processes. The student completes assignments that may include self-assessment of academic and career interests in a structured and supportive lab environment devoted to career and transfer resources. Students may complete assignments that include identifying a college major, creating a UC TAP or CSU Mentor account, attending workshops, meeting with University Representatives, submitting applications, and participating in campus tours. (CSU)

GUID 075 - Selected Topics: Guidance - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Guidance not already covered by the existing curriculum.

GUID 080 - Success in College - Units 1

This course is a group counseling practicum designed to assist the student who is having difficulty succeeding in college. The focus of the course is to provide practical strategies for achieving personal, educational, and career goals. This course is required for the student who is on third semester academic probation. Units earned in this course do not count toward an associate degree.

Health Education**H ED 001 - Health Education - Units 3**

This course is designed to enhance the student's knowledge of a variety of health-related concepts and increase motivation and desire to take personal responsibility to achieve high level wellness. (UC, CSU)

H ED 030 - Community First Aid and Safety - Units 2

This course provides guidelines that enable the citizen responder to give appropriate care, regardless of the type of emergency. It is designed for anyone desiring a general knowledge of first aid, breathing, and cardiac emergencies (coaches, parents, foster parents, teachers, fitness majors, etc.). The following American Red Cross certification examinations are included: Adult First Aid/CPR/AED, which is valid for two years. (CSU)

H ED 031 - Emergency Responder - Units 3

This course provides guidelines that equip healthcare and public safety professionals with the training and certifications needed to stay on the job and improve patient outcomes. It is designed to help professional rescuers, health care providers, and others respond to breathing and cardiac emergencies. The following American Red Cross certification examinations are included:

CPR/AED for Professional Rescuers and Healthcare Providers, which is valid for two years. (CSU)

H ED 032 - Basic Life Support for Healthcare Providers - Units 0.5

This course is for healthcare professionals who need to know how to perform CPR, as well as other lifesaving skills, in a wide variety of in-hospital and out-of-hospital settings. The following American Heart Association certification examinations are included: BLS for Healthcare Providers, which is valid for two years. This is an open entry, open exit course. (CSU)

H ED 050H - Special Studies: Health Education - Units 1-2

Prerequisites: H ED-001 Health Education with a grade of "B" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is open to the student qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

H ED 075 - Selected Topics: Health Education - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Health Education not already covered by the existing curriculum.

Health Science

H S 009 - Instructional Strategies for the Health Care Professional - Units 3

Advisories: ENG-001A with a grade of "C" or better.

This course presents instructional concepts to prepare novice health care instructors as they transition from care providers to educators in health care. Curriculum development and implementation along with evaluation methods will be included. CSU

H S 011 - Selected Topics: Health Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of Health Science not covered by existing curricula. (CSU)

H S 019 - Human Development - Units 3

Prerequisites: Reading Level II.

This course is an integration of the physiological, cognitive, sociological, and psychological aspects of human development throughout the lifespan. The course is a study of the developmental tasks facing individuals at various points in the life cycle and the ways social interaction and cultural institutions shape the development of the individual. The course is designed as a foundation course for careers in educational, social service, psychological, and health fields. (UC, CSU)

H S 034A - Basic Electrocardiograph Reading - Units 1

This course is an elementary course designed to introduce the basic concepts related to electrocardiography, such as the pertinent anatomy and physiology of the cardiovascular system, the systemic interpretation of tracings, and the recognition of normal and abnormal cardiac rhythms. (CSU)

H S 036 - Medical Terminology and Speech - Units 3

Prerequisite Skills: 1. Reading level II.

This course is designed to develop a basic medical vocabulary. Emphasis is placed on roots, prefixes, and suffixes that form

medical terms. Basic anatomy and physiology is presented as each body system is introduced. (CSU)

H S 039 - Survey of Health Careers - Units 2

This is a survey course designed to provide information about a variety of health careers. This course will assist the student with career planning and development. This course also introduces students to concepts which must be understood before engaging in the helping process. This course assists the student to identify strengths or weaknesses affecting admission into the health professions. Job functions, education, training, and employment opportunities are also included in this course. (CSU)

H S 043 - Nursing Synthesis - Units 3

Limitations on Enrollment: Student must possess a license in the State of California as a Licensed Vocational Nurse or Psychiatric Technician, or be eligible to take one of these state board examinations.

This course is designed to prepare the licensed vocational nurse, psychiatric technician, and graduate of vocational nursing and psychiatric technician programs for entry into an associate degree nursing (ADN) program. The course includes topics not included in vocational nursing (VN) and psychiatric technician (PT) programs: nursing process, role change, research skills, teaching-learning principles and development of the teaching role. The course also includes reviews of medical-surgical nursing, maternal child nursing, pharmacology, and medication calculation to prepare the student for success in an ADN program. (CSU)

H S 070 - Nurse Assistant Training - Units 7

Limitations on Enrollment: Valid CPR card for health workers, possess a livescan background clearance, and admission to the San Joaquin Delta College Certified Nurse Assistant training program based on a random selection.

Advisories: READING 091B or H S 036 each with a grade of "C" or better.

This course is designed to prepare the student to qualify for certification as a nurse assistant. The course's content follows the statewide approved curriculum designed to meet both federal and state regulations. The course focuses on the more common physical and psychological conditions found in the elderly and the nursing approaches to care of the elderly.

H S 071 - Home Health Aide - Units 2

Limitations on Enrollment: Completion of an accredited CNA course or pending issuance of a CNA license.

This course is designed to prepare the student to be a certified home health aide. The content follows the approved curriculum specific to federal and California state training regulations. The focus of this course is on the entry-level skills needed for employment as a home health aide.

H S 072 - Introduction to Pharmacology for Health Science - Units 3

Prerequisites: BIOL-031, Human Anatomy, or BIOL-032, Human Physiology, or BIOL-033, Anatomy & Physiology, each with a grade of "C" or better.

This course is an introduction to pharmacological concepts for health care workers. The concepts of pharmacokinetics, pharmacodynamics, ethical and legal aspects of medication administration, major drug classifications that are used in the treatment of diseases, and drug dosage calculation using dimensional analysis are presented using a body systems approach.

H S 080 - Selected Topics: Health Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of health sciences of already covered by the existing curriculum. Units in this course do not count toward an associate degree.

H S 082 - Intravenous Therapy for Health Care Providers - Units 1.5

Limitations on Enrollment: The student must have completed an Emergency Medical Technician, Paramedic, Licensed Vocational Nurse program or be entering the third or fourth semester of the Associate Degree Nursing Program.

This course is designed to provide learning experiences related to intravenous therapy for the licensed health care provider and student in health services who may be required to have completed an intravenous therapy course for employment. This group may include the registered nurse, licensed vocational nurse, and emergency medical technician. The course meets the requirements for the licensed vocational nurse state certification in intravenous therapy.

H S 092 - RN Preparation for Acute Care Practice - Units 1-4

Limitations on Enrollment: Fingerprinting and criminal record clearance; health and TB clearance; current and unrestricted registered nurse license for the state of California; completion of registered nurse training program approved by a U.S. state board of nursing.

This course will provide didactic and clinical experiences for the licensed registered nurse who wishes to update knowledge and skills in acute medical-surgical settings.

H S 093V - Work Experience: Health Science - Units 1-4

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

This course is designed to give the student college credit for on-the-job experience when correlated with a course relating to that job. The student must demonstrate new and expanded learning experiences before being permitted to repeat work experience. To register, complete an application form available at the Applied Sciences Office Holt 140. The course may be repeated for a maximum total of sixteen units, 4 units maximum each semester.

Heating, AC, Refrigeration**HVACR 070A - Refrigeration and Air Conditioning - Units 2.5**

This course is designed to introduce the student to the proper skills required to maintain and service refrigeration and air conditioning systems. The student learns how to charge, evacuate, and recover refrigerants utilizing common equipment found in the industry.

HVACR 070B - Intermediate Refrigeration - Units 2.5

Prerequisites: HVACR-070A Refrigeration and Air Conditioning with a grade of "C" or better.

This course is designed to develop skills necessary to service and repair systems found in the refrigeration and air conditioning industry.

HVACR 070C - Advanced Refrigeration - Units 2.5

Prerequisites: HVACR-070B Intermediate Refrigeration with a grade of "C" or better.

This course is designed to develop skills necessary to service and repair commercial and industrial refrigeration systems. The student works on industrial systems as well as other advanced projects.

HVACR 071A - Air Conditioning Components and Circuits - Units 6

This course is designed to provide the student with the fundamentals of heating and air conditioning. Emphasis is placed on the electrical and mechanical theories of operation related to common heating and air conditioning equipment. The course includes basic electricity, basic circuits, common electrical components, and applications to heating and air conditioning.

HVACR 071B - Air Conditioning Troubleshooting - Units 6

Prerequisites: HVACR-071A Air Conditioning Components and Circuits with a grade of "C" or better.

This course is designed to enable the student to develop skills necessary to properly install split and packaged air conditioning systems. This course includes operation, maintenance, and repair procedures for various heating and air conditioning systems.

HVACR 071C - Air Conditioning Systems and Heat Pumps - Units 6

Prerequisites: HVACR-071B Air Conditioning Troubleshooting with a grade of "C" or better.

This course is designed to provide the fundamentals of electrical and mechanical operation of heat pumps and chilled water systems. The course includes sequence of operation, temperature, pressure, and electrical analysis.

HVACR 071D - Commercial Air Conditioning Design and Operation - Units 6

Prerequisites: HVACR-071C Air Conditioning Systems and Heat Pumps with a grade of "C" or better.

This course is designed to develop skills necessary for calculating residential and commercial cooling loads and duct design. The course includes chiller operation and maintenance.

HVACR 072A - Intro to Residential Gas Heating - Units 2.5

This course is designed to introduce the selection, application, and maintenance of Gas Furnaces generally found in the Residential Heating, Ventilation, and Air Conditioning (HVAC) industry. The course includes the different types of Gas Furnaces found in residential, commercial, and industrial applications. Various test instrumentation is used to evaluate operation of Gas Furnaces.

HVACR 072B - Commercial Gas Heating Devices - Units 2.5

Prerequisites: HVACR-072A Intro to Residential Gas Heating with a grade of "C" or better.

This course is designed to introduce the student to basic commercial gas heating system and Air Flow.

HVACR 072C - Gas Heating Controls - Units 2.5

Prerequisites: HVACR-072B Commercial Gas Heating Devices with a grade of "C" or better.

This course is designed to introduce the student to the basic controls used for commercial gas heating. The student will work with commercial and residential gas heating equipment and trainers.

HVACR 075 - Selected Topics: HVAC - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Heating, Air Conditioning, and Refrigeration not already covered by the existing curriculum.

History

HIST 002A - World History to 1600 - Units 3

Prerequisites: Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of world societies from prehistoric times to 1600. Special emphasis is placed on the dynamic interaction and comparison of peoples and cultures. Focus is placed on tracing concurrent political, social, cultural, economic, and religious developments. The course examines the key elements of various cultures and their legacy for the global community today. (UC, CSU, C-ID HIST 150)

HIST 002B - World History Since 1600 - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of world societies since 1600 with special emphasis on the dynamic interaction and comparison of peoples and cultures. Focus is placed on tracing concurrent political, social, cultural, economic, and religious developments. The course examines the key elements of various cultures and their legacy for the global community today. (UC, CSU, C-ID HIST 160)

HIST 004A - History of Western Civilization - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of Western Civilization from its origins in the Ancient Middle East to the Renaissance and Reformation, emphasizing the social, economic, political, intellectual, and cultural forces that have shaped the West. Emphasis is on the contributions of the Ancient Middle East, Greece, Rome, and the Middle Ages. (UC, CSU, C-ID HIST 170)

HIST 004B - History of Western Civilization - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of Western Civilization from the Renaissance and Reformation to the present, emphasizing the social, political, economic, intellectual, and cultural forces that have shaped the modern West. Emphasis is on the impact of science, technology, industrialization, the modern state, and modern ideologies on the development and influence of the West. (UC, CSU, C-ID HIST 180)

HIST 006A - History of Asian Civilization - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is an introductory survey of East Asian civilization from the ancient times to the present. Emphasis is placed on history, religion, art, and literature of China, Japan, and Korea. Perspectives on East Asia's modern transformation are provided. (UC, CSU)

HIST 006B - History of South and Southeast Asian Civilization - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is an introductory survey of the histories, philosophies, and cultural characteristics of South and Southeast

Asian societies. Attention is given to the impact of the West on India and Southeast Asia. (UC, CSU)

HIST 006C - History of the Middle East - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of Middle Eastern history from its origins to the present. Topics emphasized include the political, cultural, social, and economic developments: the pre-Islamic period, the rise of Islam, its expansion, imperialism, nationalism, independence, the Arabic world in conflict, religious revival, and the problems of modernizations. (UC, CSU)

HIST 007 - History Through Film - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a study, overview, introduction, and survey of American feature films as historical documents relevant to United States history since the end of the Civil War. The course emphasizes a historical analysis of how films, as cultural and historical documents, add to our understanding of the time period during which they were made. Students in this course examine how films from the past have commented upon race, gender, war, class, politics, and other important topics. (CSU, UC)

HIST 015 - Selected Topics: History - Units 0.5-4

This topics course is designed to offer instruction in one of the specialization areas of History not already covered by existing curriculum. (CSU)

HIST 017A - History of the United States - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of United States history from its pre-colonial beginnings through the Civil War and Reconstruction. The course covers significant persons, events, and issues from our nation's past. Covered topics include all geographical regions ultimately encompassed by the United States, initial cultural contact, European settlements, racial, class, religious, and gender conflicts, immigration, the development of a national identity and American institutions, as well as sectionalism and trans-continental expansion. This course fulfills the Social Science (group A) requirement for the AA degree, and it applies toward the completion of California State requirements in United States history and institutions. (UC, CSU)

HIST 017B - History of the United States - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of United States History from Reconstruction to the present. Emphasis is on the political, economic, intellectual, and social forces which have molded modern America. The course covers significant persons, events, and issues from our nation's past. Covered topics include all geographical regions ultimately encompassed by the United States, racial, class, religious, and gender conflicts, immigration, politics, economics, culture, the development of a national identity and American institutions, as well as the United State's rise as a major world power. The course fulfills the Social Science (group A) requirement for AA degree and it applies toward the completion of California State requirements in United States history and institutions. A study of California state and local government is included in this course. (UC, CSU)

HIST 027 - Women in History - Units 3

Prerequisite Skills: 1. *Prerequisite Reading Level II.*

Advisories: ENG-001A with a grade of "C" or better.

This course is a review of the history of women in America covering the period from 1600 to the present. The emphasis of the course is a multicultural and multi-class approach, examining the problems of women of various ethnicities, races and classes in America. The formation of gender roles is discussed along with an analysis of women's political and economic status across the period. The course will analyze women's struggle for equal rights, the impact of women's participation in significant events in American history, and regional and cultural differences in the way women are treated in society. Emphasis will be on California local and state governments, their operations and how women have politically participated in California. (CSU, UC)

HIST 030A - African-American History to 1877 - Units 3

Prerequisite Skills: 1. *Prerequisite Reading Level II.*

Advisories: ENG-001A with a grade of "C" or better.

This course is an examination of African American history from its origins in early West Africa through the United States Reconstruction phase. Some topics of special interest include the following: the Trans-Atlantic Slave Trade, the contributions of blacks to the American Revolution; the development of the United States Constitution; the experiences of blacks in the antebellum age; and finally the Civil War and Reconstruction time periods. This course fulfills the Social Science (group A) requirement for the AA and AS degrees and applies toward the completion of California State requirements in U.S. History and Institutions. (Title 5, Section 40404). (UC, CSU)

HIST 030B - African-American History Since 1877 - Units 3

Prerequisite Skills: 1. *Prerequisite Reading Level II.*

Advisories: ENG-001A with a grade of "C" or better.

This course is an examination of African American history from Reconstruction to the present. Some topics of key interest include the following: the "Jim Crow" period; the careers of Booker T. Washington and W.E.B. Du Bois; the post-World War II Civil Rights Movement; the Black Power Era and the African American experience in contemporary America. This course fulfills the Social Science (group A) requirement for the AA and AS degrees and applies toward the completion of California State requirements in U.S. History and Institutions and California State and Local Government. (Title 5, Section 40404). (UC, CSU)

HIST 031 - Mexican-American History - Units 3

Prerequisite Skills: 1. *Reading level II.*

This is designed as a lecture survey course on the historical development of the Mexican American people from their pre-Colombian roots through the Spanish-European conquest (1520-50) and colonial era (1550-1820), on through the birth of Mexico (1810-20) as an example of colonial independence movements. The transition from "Mexican" Southwest to the "American" Southwest (1848-1900) includes the role played by Mexican Americans as one of many ethnic and European minority/immigrants groups in the making of modern America from 1850-1900, through the roaring 20's, the Depression, WWII, into the 1960's to the present. (UC, CSU)

HIST 034 - Asian Pacific American History - Units 3

Prerequisite Skills: 1. *Reading Level II.*

This course is a survey lecture course that examines the social, political, economic, and cultural history of Asian immigrants and Asian Americans in the United States from the 1850s to the present. The emphasis is on the Chinese, Japanese, Korean, Asian Indian, Filipino, Vietnamese, Cambodian, Lao, Hmong, and Native Hawaiian experiences. Major themes include the

immigration and settlement patterns of diverse Asian groups, occupational patterns, family and community formation, race relations, and California state and local government policies. (UC, CSU)

HIST 037 - California History - Units 3

Prerequisite Skills: 1. *Prerequisite Reading Level II.*

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of California history from the period of European exploration and discovery to the present within an international and national comparative context. Emphasis is on native cultures, Spanish and Mexican periods, American infiltration and conquest, the Gold Rush, statehood and the formation of government, economic growth, and cultural and social development. A study of California state and local government is included in this course. (UC, CSU)

HIST 075 - Selected Topics: History - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of History not already covered by the existing curriculum.

Horticulture**HORT 001 - Fundamentals of Horticulture - Units 3**

This course is a general introduction to environmental horticulture with emphasis on nursery operations, landscaping, turf management, and floral industries. Topics include basic botany, cultural practices, propagation, structures and layout, pest management, planting, container gardening and houseplants, floral design, plant identification, turfgrass installation and care, and survey of career opportunities. (CSU)

HORT 002 - Plant Materials and Usage - Fall Plants - Units 3

Prerequisites: Reading Level II.

Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Covers those plants best observed and studied in the fall of the year. Plant materials from local regions will also be included. Laboratory required. (UC, CSU)

HORT 003 - Plant Materials and Usage - Spring - Units 3

Prerequisites: Reading Level II.

Identification, growth habits, culture and ornamental use of landscape and indoor plants adapted to climates of California. Plants emphasized will come from the current California Association of Nurseries & Garden Centers (CANGC) and Professional Landcare Network (PLANET) Certification Tests Plant Lists. Covers those plants best observed and studied in the spring of the year. Plant materials from local regions will also be included. Laboratory required. (UC, CSU)

HORT 004 - History of Garden Design - Units 3

This course is an introduction to the relationship of landscape art to the human experience. Examples of gardens throughout history are used to demonstrate artistic creation and aesthetic design from a cross-cultural perspective. (UC, CSU)

HORT 005 - Introduction to Plant Pests and Diseases - Units 3

This course is designed to introduce the student to the common pests and diseases associated with ornamental plants and to present the basic principles of modern plant protection (chemical, biological, and cultural). Course is designed to assist students in

preparing for California licensing examines in pest management. (CSU)

HORT 010 - Greenhouse Production - Units 3

Prerequisites: Reading Level II.

This course is designed to introduce current production practices employed for selected floral crops. The course includes varietal selection, growth requirements, planting schedule, and pest and disease control. (CSU)

HORT 012 - Plant Propagation/Production - Units 3

Prerequisites: Reading Level II.

Plant propagation and production practices with emphasis on nursery operations including sexual and asexual reproduction, planting, transplanting, fertilizing, plant pest and disease control; structures and site layout; preparation and use of propagating and planting mediums; use and maintenance of common tools and equipment; regulations pertaining to plant production. Laboratory required. (CSU)

HORT 015 - Selected Topics: Horticulture - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of ornamental horticulture not already covered by existing curricula. (CSU)

HORT 020 - Landscape Maintenance - Units 3

This course is designed to enable the student to learn the skills necessary to successfully maintain residential and commercial landscapes and structures. The curriculum includes training in fertilizing, irrigation repair, pest and disease control, plant and tree installation, pruning, soil amending and mulching, and tree staking. (CSU)

HORT 021 - Landscape Construction - Units 3

This course is designed to provide the student with hands-on experience in planning and installing landscape construction projects. The student is exposed to the necessary tools and techniques and participates in the construction of various landscape projects such as patios, retaining walls, raised planters, mow strips, fences, patio covers, decks, and masonry projects. (CSU)

HORT 022 - Turf Practices - Units 3

This course is designed to introduce the maintenance and management of turf areas, including golf courses, athletic fields, public parks, and residential lawns. This course includes the principles of turf grass culture to provide the student with a sound basis for formulating decisions and methods of operation. (CSU)

HORT 023 - Landscape Irrigation and Drainage - Units 3

This course is designed to introduce all phases of residential and commercial landscape irrigation including designing, estimating, installing, maintaining, and trouble-shooting. The course includes the components of sprinkler systems, drip irrigation systems, components of drainage, and installation of landscape drainage systems. (CSU)

HORT 024 - Principles of Landscape Design - Units 3

Advisories: HORT-002, Plant Materials and Usage - Fall Plants, or HORT-003, Plant Materials and Usage - Spring, each with a grade of "C" or better.

This course is an introduction to basic principles of landscape design, including both hardscape and softscape. The student explores the elements of landscape design, including garden structures, pavements, plants, and complete construction drawings for residential landscape. (CSU)

HORT 026 - Introduction to Arboriculture - Units 3

Prerequisites: Reading Level 2.

This course is designed to introduce the science of pruning and its effect on plant material. The course includes proper use and maintenance of tools and equipment, and safety is emphasized. (CSU)

HORT 050H - Special Studies: Ornamental Horticulture - Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

This course is open to the student qualified to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

HORT 072 - House Plants and Interior Landscaping - Units 2

This course is designed to introduce interior landscape and the fundamentals of house plant care, including proper plant selection and identification, insect and disease detection, optimum lighting and temperatures, fertilizers and irrigation, repotting techniques, and correction of plant problems.

HORT 075 - Selected Topics: Horticulture - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Horticulture not already covered by the existing curriculum.

HORT 096V - Work Experience: Ornamental Horticulture - Units 1-8

Limitations on Enrollment: Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student employed in the area of ornamental horticulture. The course objectives are developed by the student in consultation with his or her supervisor. The student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor. To register, complete an application form available at the Applied Science and Technology Division office, Holt 140.

Humanities

HUM 003 - Autobiography of Civilization - Units 3

Advisories: ENG-079 with a grade of "C" or better or Composition Level III or Reading Level II.

This course is a survey of the artistic traditions of our western cultural heritage. The arts including painting, sculpture, architecture, music, dance, drama, and literature are studied as vehicles in the search for meaning and value from the ancient world to modern times. (UC, CSU)

HUM 004 - Introduction to Linguistics - Units 3

Prerequisites: Reading Level II.

This introductory course serves as a foundation for understanding human language. This course surveys structural properties of language (phonetics, phonology, morphology, syntax) as well as historical linguistics, language families, linguistic and cultural diversity, sociolinguistics, neurolinguistics, child language acquisition (biological and cultural aspects), semantics and pragmatics. Issues of language conservation and loss are emphasized, as well as the myriad sociocultural ramifications of language use, locally and globally. (UC, CSU, C-ID ANTH 130)

HUM 015 - Selected Topics: Humanities - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of humanities not already covered by existing curricula. (CSU)

HUM 019 - Selected Topics: Study and Travel - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to combine travel with study experiences to enrich the curriculum. One or more aspects of the culture of the area visited is stressed in the course. (CSU)

HUM 050H - Special Studies: Humanities - Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; HUM 3, 14A or 14B with a grade of "B" or better.

This course is designed to allow the qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

HUM 075 - Selected Topics: Humanities - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Humanities not already covered by the existing curriculum.

Industrial Technology

INDUS 015 - Selected Topics: Industrial Technology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of industrial technology not already covered by existing curricula. (CSU)

INDUS 020 - Industrial Safety and Health - Units 3

This course is designed to introduce principles of occupational safety and health for the work-site. The course includes Occupational Safety and Health Act (OSHA) regulations, employee training, and safety considerations. (CSU)

INDUS 031 - Industrial Hydraulics - Units 4

This course is designed to develop an understanding of the principles and mechanical applications of industrial hydraulics. Topics include shop procedures, component disassembly, troubleshooting, reassembly, and installation. (CSU)

INDUS 035 - Mobile Hydraulics - Units 4

This course is designed to introduce the use of hydraulics in the automotive and mobile equipment industries. Competency in the analysis and trouble-shooting of circuits are developed by the student in the laboratory. Skills are developed in the recognition and construction of conduits (piping, tubing and hoses) and the rebuilding of pumps, motors, and valves. (CSU)

INDUS 045 - Industrial Technology - Units 5

This course is designed to cover the principles of matter and the basic laws and theories of Newtonian mechanics. Various forms and uses of energy and the laws governing them are explored. (CSU)

INDUS 050H - Special Studies: Industrial Technology - Units 1-2

Prerequisites: Completion of survey course with grade of "B" or better and presentation of a project acceptable to the instructor and division chairperson.

This course is open to the student qualified to do advanced work in the field. The program includes research, directed reading, field work or other advanced study. (CSU)

INDUS 069V - Internship: Industrial Technology - Units 1-8

Limitations on Enrollment: The student must enroll in a course that is directly related to industrial technology. The student must enroll in a minimum of 7 units during the semester including internship units. For the summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship, work experience, and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID 30, 31, 32, 33.

This course is designed for the student participating in an occupational internship in industrial technology. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

INDUS 075 - Selected Topics: Industrial Technology - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of industrial technology not already covered by existing curricula.

INDUS 094 - Industrial Mathematics - Units 3

This course is designed to introduce applied mathematical principles to technical problems. The course includes topics of arithmetic, plane geometry, measurement, and fundamentals of trigonometry. Units in this course do not count towards the associate degree.

Industrial Technology: Apprenticeship

A-IND 072A - Introduction to Apprenticeship - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is an introduction to the requirements of an apprenticeship program, State of California Division of Apprenticeship standards, role of the apprentice, general safety, general operating procedures, and documentation.

A-IND 076 - Applied Technical Mathematics - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide a review of the computational and problem-solving skills needed for success in a plant maintenance and operations career. The topics include basic mathematical functions, manipulation of algebraic expressions, ratio, proportions, geometric calculations, and right-angle trigonometry.

A-IND 077A - Mechanical Fundamentals - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to basic principles of physics including the laws of motion and fluid behavior.

A-IND 077B - Bearings, Pumps, and Turbines - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the effects of friction, cavitation and vibration on bearings, pumps, and turbines. The course also identifies various types of pumps and their application.

A-IND 077C - Motors and Generators - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to include the theory and advanced application of alternating current motors and three-phase generators. Topics of instruction include the principles of construction of large motors and generators rated up to 10,000 horsepower.

A-IND 077D - Plant Auxiliary Equipment - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to include the study of auxiliary equipment used in hydro-electric plants. Emphasis is placed on the operation and application of valves, hydraulic controls, and pneumatic controls.

A-IND 077E - Hydraulics - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed for the student to apply schematic interpretation, troubleshooting, and problem solving techniques through the use of a hydraulics simulator.

A-IND 077F - Pneumatics - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed for the student to apply schematic interpretation, troubleshooting, and problem solving techniques through the use of a pneumatic simulator. Emphasis is placed on pressure and flow requirements.

A-IND 077G - Governor Systems - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to include the function, operation, maintenance, and troubleshooting of governors utilized in a generating plant.

A-IND 077H - Computers in Hydro-Electric Plants - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the basic concepts of using a computer in hydro-electric power plants. The topics include (Microsoft) spreadsheets, word processing, reports, desktop accessories, and running commercial applications for plant operations and maintenance.

A-IND 077J - Water Aqueduct Systems - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide the fundamentals of water measurement and water treatment for a statewide water system. Included are the procedures for monitoring water quality, water testing, water treatment, water management and water flow.

A-IND 077K - Fundamentals of Thermodynamics - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the fundamentals of thermodynamics as it applies to air conditioning and refrigeration. The course includes the effects of heat on matter, methods of heat transfer, and properties of gases.

A-IND 077L - Project Control and Power Contracts - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to provide a review of contracts related to the State Department of Water Resources; operation, power, and water contract specifications. Also included are be the study of documentation control, operation procedures and electronic communication systems.

A-IND 077M - Air Conditioning - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the theory, application, and troubleshooting techniques for basic air conditioning systems.

A-IND 077N - Electro-Mechanical Print Reading - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the theory and skills involved in reading and interpreting electrical drawings, schematics, and wiring diagrams.

A-IND 078A - Defensive Driving - Units 1

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to basic driving techniques in order to reduce the risk of being involved in a vehicular accident. The course includes the State of California vehicular code, defensive driving techniques, and State of California service vehicular operation and maintenance rules and regulations.

A-IND 078B - Heavy Truck Operation - Units 1

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the types of heavy trucks used by the California State Department of Water Resources, their maintenance, and their safe operation.

A-IND 078C - Diesel and Small Gasoline Engines - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the basic types of small gasoline engines, diesel engines, and chain saws used by the California State Department of Water Resources.

A-IND 078D - Surveying and Flood Control Systems - Units 2

Prerequisite Skills: 1. Indentured Apprentice.

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to flood control systems, inspection, and major causes of levee and dam failure. The course also includes the fundamentals of surveying.

A-IND 078E - Soils, Asphalt, and Concrete - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the various types of soil, asphalt, and concrete used by the California State Department of Water Resources, including their origin, composition, general description, and procedures for application.

A-IND 078G - Power Lift and Four-Wheel Drive Units - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the various types of power lift and four-wheel drive units used by the California State Department of Water Resources, their maintenance, their inspection, and their safe operation.

A-IND 078H - Protective Coatings - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to corrosion, painting, and protective coating control programs.

A-IND 078J - Small Boat Handling - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the types of small boats used by the California State Department of Water Resources and their transportation and safe operation.

A-IND 078K - Mobile Cranes and Rigging - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the use of mobile cranes, their safe operation and maintenance, and approved methods of rigging for lifting work.

A-IND 078L - Motor Grader Operation - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the components and operation of the types of motor graders used by the California State Department of Water Resources.

A-IND 078M - Tractor Operations, Trenching, and Shoring - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the types of tractor, trenching, and shoring operations conducted within the civil maintenance units of the California State Department of Water Resources.

A-IND 078N - Pesticides and Herbicides - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the types of pesticides and herbicides used by the California State Department of Water Resources, including uses, approved applications, and restrictions.

A-IND 078P - Power Actuated Equipment - Units 1

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce the student to the requirements and safe operation of the powder-actuated fastening tools and rotary hammer drills used by the California State Department of Water Resources.

Interior Design

ID 002 - Introduction to Interior Design - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to the field of interior design. Topics of functional and aesthetic elements for residential interiors are covered. Emphasis is placed on: principles and elements of design and the selection and organization of furnishings, floor and wall coverings, window treatments, lighting, and accessories. (CSU)

ID 006 - Textiles - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an introduction to textiles used in fashion and interiors. Natural and man-made fibers, yarns, fabric construction,

coloring and finishing are examined. Emphasis is placed on fabric performance, serviceability, and the consumer's role in the textile field. (UC, CSU)

ID 008 - History of Interior Design & Furniture - Units 3

Advisories: Reading level II.

This course is an introduction to the history of interior design, including furniture periods and styles from antiquity to the present. This course is designed to acquaint individuals with the necessary criteria to evaluate and analyze interior design and furniture styles. The importance of political, social, economic, and historical factors that influenced interior and furniture styles are stressed. (CSU)

ID 010 - Residential Interior Design - Units 3

Prerequisites: ID-002 Introduction to Interior Design with a grade of "C" or better.

This course is a focus on the skills used by the interior designer including the use of architectural tools and techniques, space planning, client-designer relationships, and executing treatments for residential interior design. Students will explore the design of the residential interior spaces, including living spaces, kitchens, baths, and support spaces. (CSU)

ID 011 - Commercial Interior Design - Units 3

Prerequisites: ID-002 Introduction to Interior Design with a grade of "C" or better.

This course is a focus on the design of commercial interior spaces, including business, medical, restaurant, hospitality and retail environments. Students will develop skills used by the commercial interior designer, including drafting, the use of architectural tools and techniques, space planning, commercial client needs, and presentation techniques specifically used in the design of commercial interior spaces. (CSU)

ID 013 - Specifications and Professional Practices - Units 3

Prerequisites: ID-002 Introduction to Interior Design with a grade of "C" or better.

This course is an introduction to the business, practical, and ethical aspects of the interior design profession. The course includes assessment on specifications, construction techniques, and installation processes, as well as the working relationship with craftspeople and tradespeople involved in the profession. Field trips are required. (CSU)

ID 015 - Selected Topics: Interior Design - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Interior Design not already covered by the existing curriculum. (CSU)

ID 018 - Consumer Behavior in Fashion and Interiors - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course is designed to provide students with an overview of the important trends in consumer behavior in the fashion and interiors environments. Students will explore the factors that influence consumer purchases of fashion and home goods and patterns of purchasing behavior within the retail environment. (CSU)

ID 019 - Retailing Fashion and Interiors - Units 3

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course provides a multi-dimensional approach in educating students for careers in the fashion and interior retail industry by

combining studies in business fundamentals with theory. All phases of retailing for fashion and interiors are covered, including business organization, buying, merchandising, marketing and consumer behavior. (CSU)

ID 021 - Trend Forecasting for Fashion & Interiors - Units 2

Prerequisites: FASHION-002 Introduction to the Fashion Industry or ID-002 Introduction to Interior Design each with a grade of "C" or better.

This course will introduce students to forecasting and its use by the creative design industries with the aim of developing an intuitive and intellectual approach to predicting future trends, on both fashion and interiors, as well as consumer behavior and retailing. The course provides students with in-depth knowledge of the relationship between forecasting, trend prediction, marketing, economics and style movements. The student will develop research skills in historical context, consumer trends and buying patterns, fads, crazes and cults, all of which play a part in the analysis of style movements. (CSU)

ID 050H - Special Studies: Interior Design - Units 1-2

Prerequisites: ID-002 Introduction to Interior Design with a grade of "C" or better.

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

This course is open to any student qualified to do advanced work in the field of Interior Design. The course includes research, directed reading, field work, or other advanced study. (CSU)

ID 075 - Selected Topics: Interior Design - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Interior Design not already covered by the existing curriculum.

Italian

ITAL 001 - Elementary Italian I - Units 5

This course is an introduction to the Italian language and the culture of Italy. It develops proficiency in elementary Italian listening, speaking, reading, and writing skills. It explores the cultures of the regions of Italy by analyzing behaviors, institutions, perspectives, and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

ITAL 002 - Elementary Italian II - Units 5

Prerequisites: ITAL-001 Elementary Italian with a grade of "C" or better.

This course is an introduction to the Italian language and Italian cultures. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). (UC, CSU)

ITAL 003 - Intermediate Italian I - Units 5

Prerequisites: ITAL-002 Elementary Italian with a grade of "C" or better or equivalent.

This course continues to develop proficiency in Italian listening, speaking, reading, and writing skills on the advanced elementary level. It continues to explore the cultures of Italy by analyzing behaviors, institutions, perspectives, and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons.

ITAL 004 - Intermediate Italian II - Units 5

Prerequisites: ITAL-003 Intermediate Italian with a grade of "C" or better.

This course offers continued study of the Italian language on the advanced intermediate level. Efforts to further develop reading and composition skills are based on both contemporary and traditional selection of literary texts. It continues to explore the culture of Italy. It affords opportunities for cross-linguistic and cross-cultural comparisons.

ITAL 015 - Selected Topics: Italian - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Italian not already covered by the existing curriculum. (CSU)

ITAL 050H - Special Studies: Italian - Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; ITAL 4 with grade of "B" or better.

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

ITAL 075 - Selected Topics: Italian - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of Italian not covered by the existing curriculum.

Japanese

JAPAN 001 - Elementary Japanese I - Units 5

This course is an introduction to the Japanese language and Japanese cultures. Emphasis is placed on communication skills (listening, speaking, reading, and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). (UC, CSU)

JAPAN 002 - Elementary Japanese II - Units 5

Prerequisites: JAPAN-001 Elementary Japanese with a grade of "C" or better.

This course continues to develop proficiency in Japanese listening, speaking, reading, and writing skills on the advanced elementary level. It continues to explore the cultures of Japan by analyzing behaviors, institutions, perspectives and artistic manifestations. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

JAPAN 003 - Intermediate Japanese I - Units 5

Prerequisites: JAPAN-002 Elementary Japanese with a grade of "C" or better.

This course is designed to offer continued study of the Japanese language and Japanese cultures. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). Efforts to improve reading and composition skills are based on both contemporary and traditional selection of literary texts. (UC, CSU)

JAPAN 004 - Intermediate Japanese II - Units 5

Prerequisites: JAPAN-003 Intermediate Japanese with a grade of "C" or better.

This course offers continued study of the Japanese language on the advanced intermediate level. Efforts to further develop reading and composition skills are based on both contemporary and traditional selection of literary texts. It continues to explore the culture of Japan. It affords opportunities for cross-linguistic and cross-cultural comparisons. (UC, CSU)

JAPAN 015 - Selected Topics: Japanese - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Japanese not already covered by the existing curriculum. (CSU)

JAPAN 050H - Special Studies: Japanese - Units 1-2

Prerequisites: Presentation of a project acceptable to the instructor and the division chairperson; JAPAN 4 with a grade of "B" or better.

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

JAPAN 075 - Selected Topics: Japanese - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of Japanese not covered by the existing curriculum.

Learning Skills

LS 072 - Transition for Academic Success - Units 1

In this course students define and develop the characteristics of a successful college student, and practice developing behaviors and attitudes that increase academic success, including familiarity with campus resources. Students will evaluate and reinforce successful learning tools in areas such as time management, memory processing and learning styles. This course is an introduction to the college experience and the educational process.

LS 073 - Memory and Thinking Strategies - Units 3

This course is designed to provide information and memory techniques to the student who is experiencing academic difficulties. This course enhances skills in the areas of learning strategies, personal growth, and organizational retrieval systems. An awareness of different learning styles and learning preferences are presented throughout the course. Students learn what directly impacts their success and limitations in the educational process.

LS 075 - Selected Topics: Learning Skills - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Learning Skills not already covered by the existing curriculum.

LS 077 - Introduction to Computers - Units 1.5

This course is designed to introduce basic computer exploration and assistive technology to the student. The course includes how a computer works, computer technology, introduction to keyboarding, windows, internet, and word processing. The course is self-paced and requires no previous computer knowledge or experience.

LS 078 - Understanding Learning Differences - Units 4

This course focuses on learning differences, learning theory, and strategies related to specific learning challenges. Students create a learning portfolio to identify learning style, strengths, and weaknesses, demonstrate understanding of learning differences, methods of retention, and output of knowledge. Cognitive and achievement testing will be provided to identify students' learning profile.

LS 090A - Beginning Adapted Keyboarding - Units 1

This is a beginning course in assistive computer technology for the student with disabilities. The course focuses on developing familiarity with the keyboard and touch typing skills for the alphabetic keys at a beginning level. The course includes assessment of individual abilities and prescriptive adaptive software/hardware for maximum success. Units in this course do not apply toward an associate degree.

LS 090B - Intermediate Adapted Keyboarding - Units 1

Prerequisites: LS-090A Beginning Adapted Keyboarding with a grade of "C" or better.

This is an intermediate-level course in adaptive computer keyboarding. The course focuses on expanding and refining keyboard skills for the student with disabilities using adaptive computer technology. This course expands and builds upon the skills developed in L S 090A, "Beginning Adapted Keyboarding." Units in this course do not apply toward an associate degree.

Library Skills

LIBRY 001 - Library Information Literacy - Units 1

Prerequisite Skills: 1. Prerequisite Reading Level II.

This course is designed to help the student develop information literacy skills and to introduce the variety of information resources and information retrieval tools available in academic libraries. The student learns about library services and resources as well as how to develop research strategies, how to effectively retrieve information utilizing library research tools, and how to cite retrieved sources in major writing styles.(UC, CSU)

LIBRY 002 - Advanced Library Information Literacy - Units 2

Prerequisites: LIBRY-001 Library Information Literacy with a grade of "C" or better.

Prerequisite Skills: 1. Prerequisite Reading Level II.

This course is designed to further develop the student's information literacy and critical thinking skills learned in Library Information Literacy. In this course, special emphasis is given to the Internet as a research tool, online bibliographic tools, online databases, online searching strategies, general and specialized reference books, law reference sources, and career information. (UC, CSU)

LIBRY 003 - Information Competency - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

This course is designed to empower students with the technological skills, research strategies, and critical thinking abilities needed to find, evaluate, use, and communicate information in various formats. The course promotes consideration of ethical and legal use of information as well as the application of both critical thinking and communication skills. The course combines instruction, hands-on learning and applications, online class discussions, analysis and evaluation of information, learning assessment, and a research project. (UC, CSU)

LIBRY 010 - Information Research Skills - Units 0.5

Prerequisite Skills: 1. Prerequisite Reading Level II.

This course is designed to support students in their basic academic research through hands-on workshops tailored to the students' information research needs. The course consists of four library workshops that cover such basic information competency/research skills contents as narrowing and analyzing a topic, developing effective search strategies, finding credible, accurate, and reliable information using a variety of research tools, and citing sources using a standardized citation format. (CSU)

LIBRY 015 - Selected Topics: Library Science - Units 0.5-4

Prerequisite Skills: 1. Determined by Topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Library Science not already covered by the existing curriculum. (CSU)

LIBRY 075 - Selected Topics: Library Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Library Science not already covered by the existing curriculum.

Mass Communication

MCOM 001 - Introduction to Mass Communication - Units 3

This course is a comprehensive survey of mass communication and the interrelationships of media with society, including history, development and trends in the digital age, including analysis of newspapers, magazines, television, radio, online media, public relations, advertising and photojournalism. Students discuss theories and effects, economics, technology, law and ethics, global media, media literacy, and social issues, including gender and cultural diversity. The impact of mass media in a free society is also examined. The course also addresses controls on the media, including media law and ethics. The constitutional basis for a free press is explored. (UC, CSU, C-ID JOUR 100)

MCOM 002 - Writing for the Media - Units 3

Prerequisites: MCOM-001, Introduction to Mass Communication, with a grade of "C" or better.

This course is designed to offer the student fundamental instruction in writing for the mass media. The course includes instruction in writing techniques for newspapers, magazines, radio, television, film, electronic, and other news and information media. Emphasis on preparing scripts in proper formats, including fundamental technical, conceptual and stylistic issues related to writing fiction and non-fiction scripts for informational and entertainment purposes in film and electronic media. Also covered is the application of journalistic principles in writing columns, features, and editorials; corporate communications; publicity, public information, advertising and related areas. Legal and ethical issues related to writing for the media are also

examined. Instruction is offered in standard styles, grammar, copy editing, and proofreading. The course includes a writing evaluation component as a significant part of the course requirement. (CSU)

MCOM 004 - Mass Media and Critical Thinking - Units 3

This course is designed to introduce reasoning skills useful to the mass communication and general education students alike in interpreting and analyzing news, entertainment and advertising in the mass media. Emphasis is on assessing the quality of mass media messages and on how to think critically about the effects of mass media. The course focuses on analysis of current events. Analysis of ethical and legal issues in message dissemination will be discussed in length. (CSU, UC)

MCOM 005 - Social Media and Society - Units 3

Prerequisite Skills: 1. Prerequisite Reading Level II.

A comprehensive look at the evolution of social media as it pertains to mass communication, specifically in sending directed messages to the masses through online media channels. Topics will include the evolution of social media, positive and negative impacts of directed campaigns and the cultural impact of content. Mediums for transmitting social messages will be discussed in length, including sharing of video, photographs and written content. Professional behavior, networking and ethical practices will also be examined. (CSU)

MCOM 007 - Photojournalism - Units 3

This course is designed to offer the student instruction as a photo journalist, focusing on theory and practice in press and publication photography, with emphasis on using the camera as a reporting and communications tool. Specific attention will be given to reporting and interpreting news for print and Internet mass media. Covered are news and feature photography and photographic essays, including composition, impact, and creativity for newspapers, magazines, Internet, and other mass communications media. The course includes instruction in operation of digital cameras, composition, processing of digital images, and photo page design. Legal and ethical issues related to photojournalism are also examined. (CSU, C-ID JOUR 160)

MCOM 010 - Introduction to Multimedia - Units 3

This course is designed to provide basic skills in the art of multimedia storytelling and project building with a journalism emphasis. Techniques that will be explored include use of video, photos, animation, graphic design, and text to convey interactive news and feature stories through the Internet and other electronic media. In addition, students will use critical thinking skills to develop the best way to build media content into a central project. Ethical considerations, including the use of contributed content, will also be examined. (CSU, C-ID JOUR 120)

MCOM 011 - Newswriting - Units 3

This course is designed to offer an introduction to gathering, synthesizing, organizing and writing news in fundamental journalistic style across all media platforms. Emphasis is placed on the personal interview as a vital process in structuring an objective presentation of news and feature stories. Accompanying the various areas of writing instruction is an introduction to the basics of being a multimedia reporter, developing photo, video and audio capturing skills. It includes the role of the journalist and related legal and ethical issues. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings and other events, writing under deadline, and using AP Style. (CSU, C-ID JOUR 110)

MCOM 012A - Newspaper Production I - Units 3

Prerequisites: MCOM-011 Newswriting with a grade of "C" or better.

This course is designed to offer students lab experiences in all aspects of newspaper production, including regularly producing news or feature non-fiction stories with journalistic emphasis for publication in the student newspaper and on the student news website. Weekly news assignments cover the writing of news, feature, sports and opinion stories. Peer editing, page design, digital photography and production are also covered. Students may produce across digital platforms for experience in design/layout, online and multimedia journalism, and emerging technologies. The newspaper is student produced with student leadership. (CSU, C-ID JOUR 130)

MCOM 012B - Newspaper Production II - Units 3

Prerequisites: MCOM-012A, Newspaper Production I, with a grade of "C" or better.

This course is designed to offer students lab intermediate skills in all aspects of newspaper production, including producing news or feature non-fiction stories with journalistic emphasis for publication in the student newspaper and on the student news website. Students will take on leadership and management roles, serving as a copy or section editor for the college newspaper. Weekly news assignments cover the writing of news, feature, sports and opinion stories. Peer editing, page design, digital photography and production are also covered. Students may produce across digital platforms for experience in design/layout, online and multimedia journalism and emerging technologies. The newspaper is student produced with student leadership (CSU, C-ID JOUR 131).

MCOM 012C - Newspaper Production III - Units 3

Prerequisites: MCOM-012B Newspaper Production II with a grade of "C" or better.

This course is designed to offer the student instruction in production of the student newspaper, including editing, page design and digital photography, while introducing the newspaper website and content management systems. The student will serve as copy editor, section editor, social media editor or online editor in addition to balancing management skills with newspaper duties. (CSU)

MCOM 012D - Newspaper Production IV - Units 3

Prerequisites: MCOM-010 Introduction to Multimedia or MCOM-012C Newspaper Production III each with a grade of "C" or better.

This course is designed to offer the student instruction in content production as it pertains to the student newspaper and news website. Specific focus will be placed on advanced digital photography, sound editing and video development. The student will serve as a copy editor, section editor, social media editor, online editor or video editor in addition to balancing management skills with newspaper duties. (CSU)

MCOM 015 - Selected Topics: Mass Communications - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Mass Communications not already covered by the existing curriculum. (CSU)

MCOM 050H - Special Studies: Mass Media - Units 1-2

Prerequisites: MCOM-001 Introduction to Mass Communication with a grade of "B" or better.

Limitations on Enrollment: Presentation of a project acceptable to the instructor and division chairperson. A student must have

completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and Division Dean.

This course is designed for the student qualified to do advanced work in mass media. The course includes research, directed reading, fieldwork or other advanced study which must be arranged and approved by the instructor and the division dean before enrolling in the course. (CSU)

MCOM 069V - Media Internship - Units 1-6

Prerequisites: MCOM-011 Newswriting and MCOM-012A Newspaper Production I each with a grade of "C" or better.

This supervised internship course is designed to provide the advanced journalism student with the opportunity to gain work experience for either off-campus print or electronic medium and to earn credit for the experience. Units are awarded on the basis of one unit per 60 hours of unpaid work or 75 hours of paid work. (CSU)

MCOM 075 - Selected Topics: Mass Communication - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of journalism not already covered by the existing curriculum.

Mathematics

MATH 001 - Calculus I - Units 5

Prerequisites: MATH-039, Precalculus, or minimum level 6 on the Math Placement Test or MATH-038A, Precalculus I, and MATH-038B, Precalculus II, each with a grade of "C" or better.

This course is the first course in differential and integral Calculus. Topics include: limits and continuity, techniques of differentiation and integration, the Fundamental Theorem of Calculus and applications of differentiation and integration. This course is primarily for Science, Mathematics, Technology, and Engineering majors. (UC, CSU)

MATH 002 - Calculus II - Units 4

Prerequisites: MATH-001 Calculus with a grade of "C" or better.

This course is the second course in differential and integral Calculus. Topics include integration, techniques of integration, applications of the integral, and infinite sequences and series, polar and parametric equations. This class is primary for Mathematics, Science, Technology and Engineering majors. (UC, CSU, C-ID MATH 220)

MATH 003 - Multivariable Calculus - Units 4

Prerequisites: MATH-002, Calculus II, with a grade of "C" or better.

This course introduces vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes's Theorem and the divergence theorem. (UC, CSU, C-ID MATH 230)

MATH 004 - Differential Equations - Units 4

Prerequisites: MATH-002 Calculus II with a grade of "C" or better.

This course provides an introduction to the study of elementary differential equations. The course includes a computer laboratory component complementing the lecture component. Lecture and laboratory topics include first and second order linear differential equations, nonlinear differential equations, power series solution methods including solutions near ordinary and singular points, the

Laplace transform, and systems of linear differential equations. (UC, CSU, C-ID MATH 240)

MATH 005 - Linear Algebra - Units 4

Prerequisites: MATH-002, Calculus II, with a grade of "C" or better.

This is an introductory course in Linear Algebra. This course develops the techniques and theory needed to solve and classify linear systems of equations. Techniques include elementary row operation, Gaussian elimination and matrix algebra. Properties of two and three dimensions vectors are studied and abstract vector spaces are introduced. Vector space and Matrix theory are presented. Topics include linear transformations, eigenvalues and eigenspaces, orthogonality, norms, and inner products. Applications of linear algebra are included. (UC, CSU, C-ID MATH 250)

MATH 010 - Introduction to Contemporary Mathematics - Units 3

Prerequisites: MATH 092G, Intermediate Algebra, with a minimum grade of "C" or MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH-082 Intermediate Algebra with a grade of "C" or better.

This course is a one-semester introduction to the mathematical sciences. A wide variety of mathematical topics essential to understanding and becoming an active participant in today's society will be covered. This course is designed to satisfy the mathematics requirements for the liberal arts non-science major. (CSU)

MATH 012 - Introduction to Probability and Statistics - Units 4

Prerequisites: MATH-092G, Intermediate Algebra, or MATH-092S, Intermediate Algebra (STEM), or MATH-082, Intermediate Algebra, each with a grade of "C" or better or minimum level of 5 on the Math Placement Test.

Advisories: Reading level II.

This course is designed to acquaint the student with elementary techniques used in statistical analysis. Emphasis is on descriptive statistics, elementary probability concepts, probability distributions, statistical inference, and simple linear regression analysis, with applications in business, social sciences, psychology, life sciences, health sciences and education. A graphing calculator is recommended. Instructor demonstrations utilize a graphing calculator. (UC, CSU)

MATH 013 - Survey of Calculus - Units 4

Prerequisites: MATH-082 Intermediate Algebra or MATH-092S Intermediate Algebra (STEM) each with a grade of "C" or better or Math Level 5 or higher on the Math Placement Test.

This course is designed primarily for the student studying business, life science, social science, or engineering technology who wishes an overview of the practical aspects of Calculus, rather than the more rigorous development found in the three semester sequential Calculus series (MATH 1, 2, 3). (UC, CSU, C-ID MATH 140)

MATH 017A - Concepts and Structures of Mathematics - Units 3

Prerequisites: MATH-092G, Intermediate Algebra, or MATH-092S, Intermediate Algebra (STEM), or minimum of Level 5 on the Math Placement Test.

This course is one of two courses designed for the pre-service elementary teacher. The course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and application of logical

reasoning. Throughout the course accurate use of mathematical terminology and notation will be emphasized. (UC, CSU)

MATH 017B - Concepts and Structures of Mathematics - Units 3

Prerequisites: MATH-092G, Intermediate Algebra, or MATH-092S, Intermediate Algebra (STEM), each with a grade of "C" or better or minimum of Level 5 on the Math Placement Test.

This course is one of two courses designed for the pre-service elementary teacher. The course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including measurement, geometry and introductory probability and statistics. Throughout the course accurate use of mathematical terminology and notation will be emphasized. (UC, CSU)

MATH 020 - Finite Mathematics - Units 3

Prerequisites: MATH-092S, Intermediate Algebra (STEM), or MATH-082, Intermediate Algebra, or MATH-092G, Intermediate Algebra, each with a grade of "C" or better or a minimum of a level 5 on the Math Placement Test.

This course is designed to fulfill the mathematics requirements of the student in business administration, management, life sciences, or social sciences. The course covers a variety of topics including linear functions, systems of equations and inequalities, matrices, linear programming, elementary combinatorial techniques, sets, Venn diagrams, elementary probability and statistics, the mathematics of finance and Markov Chains. Application problems to business, economics, and social sciences are emphasized throughout. Graphing calculators are used extensively. The TI-84 PLUS is used for instructor demonstrations. (UC, CSU)

MATH 038A - Precalculus I - Units 4

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH-082 Intermediate Algebra with a grade of "C" or better or minimum level of 5 on the Math Placement Test.

This course is a one-semester college algebra course or, together with Math 38B, a two-semester Precalculus course. Emphasis is placed on the algebraic skills necessary for success in Calculus. Topics will include linear, quadratic, rational, radical, exponential and logarithmic equations and functions; sequences and series; mathematical induction; Binomial Theorem; and related applications. Graphing Calculator may be required. (CSU, UC)

MATH 038B - Precalculus II - Units 4

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH-082 Intermediate Algebra with a grade of "C" or better or minimum of Level 5 on the Math Placement Test.

This course is a comprehensive course in Trigonometry and Analytical Geometry. Topics include conic sections, polar coordinates, linear and non-linear systems and matrix algebra. Together with Math 38A, this is a two semester Precalculus course sequence. A graphing calculator may be required. (CSU, UC)

MATH 039 - Precalculus - Units 5

Prerequisites: MATH 092S, Intermediate Algebra (STEM), with a minimum grade of "C" or MATH-082 Intermediate Algebra with a grade of "C" or better or a minimum level of 5 on the Math Placement level.

Advisories: MATH 092S, Intermediate Algebra (STEM) with a minimum grade of "A" or MATH-082 with a grade of "A" or better. This course is a preparatory course for Calculus. It emphasizes the algebraic and trigonometric knowledge and skills required in

Calculus. Topics include linear and non linear equations, a study of polynomial, transcendental and trigonometric functions, sequences and series, conic sections, polar coordinates, systems of equations, exponential and logarithmic functions and equations, Binomial Theorem, mathematical induction and related applications. Graphing calculators may be required. Credit may not be granted for MATH 39 and MATH 38A/B. MATH 38A and MATH 38B are equivalent to MATH 39. (UC, CSU)

MATH 075 - Selected Topics: Mathematics - Units 0.5-4

This course is designed to offer instruction in one or more of the specialized areas of mathematics not already covered by the existing curriculum.

MATH 076 - Review of Arithmetic - Units 3

This course is designed as a review of basic arithmetic. The course includes whole numbers, fractions, decimals, ratio and proportion, percents, and systems of measurement. Units earned in this course do not count toward an associate degree.

MATH 077A - Business Mathematics - Units 3

Advisories: MATH-076 with a grade of "C" or better or an assessment level 2 or higher on the Math Placement Test; reading level II.

This course is a comprehensive review of whole number, fraction, decimal and percent computations as well as simple application problems involving money management such as banking, payroll, buying and selling, and simple interest. Units earned in this course do not count toward the associate degree.

MATH 077B - Business Mathematics - Units 3

Prerequisites: MATH-077A Business Mathematics with a grade of "C" or better.

This course is designed to introduce the student to mathematical concepts related to modern business. The course includes such topics as loans, compound interest, real estate, depreciation, and financial statements. Units earned in this course do not count toward the associate degree.

MATH 078 - Prealgebra - Units 3

Prerequisites: MATH 076, Review of Arithmetic, with a grade of "C" or better or an assessment level 2 or higher on the Math Placement Test.

This course is designed for the student needing to bridge the gap between arithmetic and algebra. Instruction is provided in the computational and problem-solving skills necessary for academic, vocational, and/or professional programs. Units earned in this course do not count toward the associate degree.

MATH 086 - Applied Mathematical Concepts for the Associate Degree - Units 4

Prerequisites: MATH-090 Beginning Algebra or Math Level 4.

This course uses the procedural, analytical and critical thinking skills from Elementary Algebra to explore mathematics in a variety of applications. Topics covered include (but are not limited to) consumer mathematics, statistics, unit conversions and geometry. This course satisfies the Language and Rationality Group B requirement in the General Education pattern for the Associate Degrees, but it is not appropriate for students planning to transfer to a four-year college. It will not satisfy the prerequisite for a higher level math course.

MATH 090 - Beginning Algebra - Units 4

Prerequisites: MATH-078, Prealgebra, with a grade of "C" or better or a minimum assessment level 3 on the math placement test.

This course is a first course in algebra covering linear equations in one and two variables, linear inequalities, basic graphing, polynomials, and factoring.

MATH 092G - Intermediate Algebra - Units 4

Prerequisites: MATH-090 Beginning Algebra with a grade of "C" or better or a minimum assessment level 4 on the math placement test.

This is a second course in algebra covering rational expressions and equations, rational exponents and radicals, an introduction to functions, linear functions, quadratic functions, exponential functions, and logarithmic functions. This course is intended for non-STEM majors.

MATH 092S - Intermediate Algebra (STEM) - Units 5

Prerequisites: MATH-090, Beginning Algebra, with a grade of "C" or better or a minimum assessment level 4 on the math placement test.

This is a second course in algebra covering rational expressions and equations, rational exponents and radicals, an introduction to functions, linear functions, quadratic functions, exponential functions, logarithmic functions, as well introductions to conic sections, sequences and series, and the Binomial Theorem. This course is intended for STEM majors.

Mechanical Technology

MECH 005 - Selected Topics: Machine Tool Technology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Machine Tool Technology not already covered by the existing curriculum. (CSU)

MECH 015 - Machine Tool Process - Units 3

This course is for the student who plans to enter occupations in metals technology, manufacturing, engineering, and related fields. The student will learn theory and operation of metal-working machines including lathes, grinding machines, milling machines, drill presses, sawing machines, and computer numerical control (CNC) lathe and milling machine. Topics include cutting tools, measuring tools and instruments, welding, casting, heat treatment of steel, production setups, and Computer Numerical Control (CNC) machines. A combined program of lecture and laboratory allows the student to have hands-on experience with a variety of machinery processes. (CSU)

MECH 070A - Elementary Machine Shop I - Units 3

This course is an introduction to machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. Subjects include precision instruments, hand tools, layout and the operation of stationary power tools with an emphasis on the lathe.

MECH 070B - Elementary Machine Shop II - Units 3

Prerequisites: MECH-070A Elementary Machine Shop I with a grade of "C" or better.

This course is an introduction to machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. Subjects include precision inspection instruments, hand tools, layout and the operation of machine tools with an emphasis on the vertical milling machine.

MECH 073A - Machine Shop I - Units 3

Prerequisites: MECH-070B Elementary Machine Shop II with a grade of "C" or better.

This course is designed to provide general machine tool theory, blueprint reading, and related mathematics for the manufacturing of machine parts. Subjects include advanced layout, uses of precision measuring instruments, and operation of surface grinding machines, lathes, milling machines, and saws.

MECH 073B - Machine Shop II - Units 3

Prerequisites: MECH-073A Machine Shop I with a grade of "C" or better.

This course is designed to provide the student with theory and application of machine tool operations. Subjects include advanced lathe, milling machine, and related set-ups and tooling. Students will also use ASME Y14.5 design standards to fabricate and inspect parts.

MECH 074A - Computer Numerical Controlled Machining I - Units 3

Prerequisites: MECH-070B Elementary Machine Shop II with a grade of "C" or better.

This course combines manual machining processes with automated machining equipment. Students will develop programs using "G" and "M" codes to automate the machining process. The major emphasis of the course is the programming of the Computer Numerical Controlled (CNC) milling machines. In addition, to programming, the student will develop setup procedures, and operating techniques commonly used in industry.

MECH 074B - Computer Numerical Controlled Machining II - Units 3

Prerequisites: MECH-074A Computer Numerical Controlled Machining I with a grade of "C" or better.

This course combines manual machining processes with automated machining equipment. Students will develop programs using "G" and "M" codes to automate the machining process. The major emphasis of the course is the programming of the Computer Numerical Controlled (CNC) lathes. In addition, to programming, the student will develop setup procedures, and operating techniques commonly used in industry.

MECH 075 - Selected Topics: Machine Tool Technology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Machine Tool Technology not already covered by the existing curriculum.

MECH 076A - Computer Aided Machining I - Units 3

Prerequisites: MECH-074A Computer Numerical Controlled Machining I with a grade of "C" or better.

This course is based on the knowledge and skills learned in MECH 74A & 74B, Computer Numerical Control I & II. The course combines the study of machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. The emphasis of the course focuses on the use of Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) software to program Computer Numerically Controlled (CNC) machine tools. The student will develop computer generated drawings, define tool paths, and generate Computer Numerical Control (CNC) code.

MECH 076B - Computer Aided Machining II - Units 3

Prerequisites: MECH-076A Computer Aided Machining I with a

grade of "C" or better.

This course is based on the knowledge and skills learned in MECH 76A, Computer Aided Machining I. The course combines the study of machine tool theory, blueprint reading, and related mathematics with hands-on shop experience. The emphasis of the course focuses on the use of Computer-Aided Drafting/Computer-Aided Manufacturing (CAD/CAM) software to generate programs and 3D toolpaths for Computer Numerically Controlled (CNC) mills. The student will develop computer generated drawings, define tool paths, and generate Computer Numerical Control (CNC) code. Surface and solid modeling will be introduced.

MECH 081 - Metal Trade Layout and Forming - Units 5

Advisories: INDUS-094 with a grade of "C" or better.

This course is designed to teach skills in basic layout and forming to better prepare the student for employment areas such as: machine shop, heating and air conditioning, fabrication and maintenance personnel in metal trade industries.

MECH 087A - Machine Tool Technology Specialization - Units 3

Prerequisites: MECH 050C.

Prerequisite Skills: 1. Machine tool operation skills.

Limitations on Enrollment: This course requires instructor approval to enroll.

This course is designed for the advanced student in machine technology. The student completes an advanced specialized project developed in consultation with the instructor.

MECH 098V - Work Experience: Machine Tool Technology - Units 1-4

Limitations on Enrollment: Internship: The student must enroll in a course in the discipline directly related to the internship. The student must enroll in a minimum of 7 units including internship units, during the semester. For summer session, the student must enroll in one related course in addition to internship. The combined total number of units a student may take in internship and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of internship program objectives and an employer internship agreement.

Advisories: GUID-030 GUID-031 GUID-032 GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational internship in machine tool technology. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor.

Mechanical Technology: Apprenticeship

A-MEC 074A - Basic Welding - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce basic welding skills. The course includes the basic theory, practice and application of arc welding and of oxy-acetylene cutting and welding.

A-MEC 074B - Machine Shop - Units 2

Limitations on Enrollment: Indentured Apprenticeship.

This course is designed to introduce fundamental machine shop practices. The course includes safety procedures, lathe operation, mill operation, drilling operations, and print reading.

Music

MUSIC 001 - Music Fundamentals - Units 3

This course is designed for the student who wants a beginning background in the theory of music. No knowledge of music or music theory is assumed. The course includes: basic musical notation, rhythm and meter, major and minor scales, major and minor key signatures, intervals and inversions, triads (major, minor, diminished and augmented), some seventh chords, inversions of triads and seventh chords, elementary formal and harmonic analysis, and ear training for all of the above, plus some sight reading and melodic dictation. Some knowledge of keyboard will be included. This is NOT a music major course. (UC, CSU)

MUSIC 002A - Music History from Antiquity to 1750 - Units 3

This course is a critical and analytical study of western historical sources, selected musical works, and composers of the period from antiquity through 1750. The student learns to compare and contrast musical genres of the medieval, renaissance, and baroque periods. (UC, CSU)

MUSIC 002B - Music History from 1750 to Present - Units 3

This course is a critical and analytical study of western historical sources, selected musical works, and composers of the period from 1750 to the present. The student learns to compare and contrast musical genres of the classical, romantic, and contemporary periods. (UC, CSU)

MUSIC 003A - Music Theory and Musicianship I - Units 4

This course is the review of the rudiments of musical notation, scales, key signatures, intervals, triads, and inversions of triads. Emphasis is placed on analysis, creations of melodies based upon techniques of various musical periods, and four-part chorale-style harmony. In addition, the course includes sight-singing and ear-training of pentatonic and diatonic melodies, two-part rhythm exercises, simple keyboard harmony drills, beginning self-accompanied singing exercises, melodic, harmonic, and rhythm dictation, and sight-singing. (UC, CSU)

MUSIC 003B - Music Theory and Musicianship II - Units 4

Prerequisites: MUSIC-003A, *Music Theory and Musicianship I*, with a grade of "C" or better.

This course is the continuation of Music 3A beginning with the construction of an underlying tonal harmonic (triadic) continuum. Emphasis will be on chord connection, employment of triadic inversions, and study of basic harmonic rhythm leading to the creation of two-, three-, and four-part textures. In addition, the course includes ear training and sight-singing of more advanced diatonic melodies, three-part rhythmic exercises, keyboard harmony exercises, self-accompanied singing exercises, melodic, harmonic, contrapuntal, and dictation. (UC, CSU, C-ID MUS 130)

MUSIC 003C - Music Theory and Musicianship III - Units 4

Prerequisites: MUSIC-003B, *Music Theory and Musicianship II*, with a grade of "C" or better.

This course is the continuation of Music 3B. Emphasis will be on developing an understanding of 19th century harmonic practice, including altered and extended chords, work in advanced modulation procedures, and more sophisticated progressions. Writing for the keyboard and other instrumental and vocal combinations will be encouraged. In addition, the course includes ear training and sight-singing of diatonic and chromatic melodies and advanced two- and three-part rhythmic exercises, self-accompanied singing exercises, keyboard harmony, and dictation. (UC, CSU, C-ID MUS 140, C-ID MUS 145)

MUSIC 003D - Music Theory and Musicianship IV - Units 4

Prerequisites: MUSIC-003C, *Music Theory and Musicianship III*, with a grade of "C" or better.

This course is the continuation of Music 3C. Emphasis will be on the examination of impressionistic devices, quartal harmony, non-tonal and atonal compositional processes, and 20th century western music. In addition, the course includes ear training and sight-singing of diatonic and chromatic melodies and more advanced four-part rhythmic exercises, advanced melodic, contrapuntal, and four-part chorale style dictation. (UC, CSU, C-ID MUS 150)

MUSIC 004 - Exploring Music - Units 3

This course is an exploration of growth and development of music from the 11th Century to the present. This course includes forms and styles used in Western art and surveys those factors influencing popular, rock, and commercial music as well as music used for live theater and in films. This is not a music major course. (UC, CSU)

MUSIC 005 - Selected Topics: Music - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of music not already covered by existing curriculum. (CSU)

MUSIC 007 - Excursions in Music of Our World - Units 3

This course is a survey of non-western music. It addresses cultures that exhibit a minimum of western (European and American) influence from major geographic regions of the world including Australia, China, Japan, Indonesia, India, Turkey, the Arabic Middle East, eastern and western central Africa, South America, and native North America. (UC, CSU)

MUSIC 008 - Exploring Jazz, Ragtime, and Blues - Units 3

This course is a survey of musical history and literature of jazz, ragtime, and blues in the United States. The course pursues an in-depth study of the genres, styles, and musical personalities involved in this unique American art form from the late nineteenth-century to the present. (UC, CSU)

MUSIC 012A - Class Voice - Units 1

This course is the development of techniques for the solo voice. The principles of posture, breathing, diction, vocal anatomy, tone production, and presentation of one's self in public performances are stressed. Individual performance in class is a requirement. (UC, CSU)

MUSIC 015 - Delta Singers - Units 1

Corequisites: MUSIC-017 *Concert Choir* or MUSIC-017M *Concert Choir*.

Limitations on Enrollment: Title 5 *Qualified Performer*.

This course is designed to develop the art of singing in the small choral ensemble. The choir consists of 20-30 members and includes the singing of choral masterworks from all historical periods for the chamber choir. Sight-reading and proper vocal techniques are also stressed. The student may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 017 - Concert Choir - Units 1

Limitations on Enrollment: Title 5 *Qualified Performer*.

This course is designed to develop the art of singing in the large choral ensemble. This ensemble stresses singing repertoire specifically composed for the large choir from all historical periods. Sight-reading and proper vocal technique are also stressed. The student may receive credit in this course for a maximum of four semesters. (UC, CSU, C-ID MUS 180)

MUSIC 018 - Chorale - Units 1

Limitations on Enrollment: Title 5 Qualified Performer.

The Chorale is a choral ensemble for both students and community singers wishing to further knowledge of choral repertoire, vocal technique, and the enhancement of ensemble singing skills. The course stresses the study and performance of major works from the choral repertoire. The student may receive credit in this course for a maximum of four semesters. (CSU)

MUSIC 020A - Voice for Musical Theatre I - Units 1

Limitations on Enrollment: Qualified Performer.

This course explores the topics of vocal production techniques for the novice musical theater performer. The principles of breath support, tone quality, beginning choreography and staging are stressed. (UC, CSU)

MUSIC 020B - Voice for Musical Theatre II - Units 1

Prerequisites: MUSIC-020A Voice for Musical Theatre I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is the study and development of vocal production techniques for the intermediate musical theatre performer. The principles of posture, solo diction, belting, intermediate-level choreography and staging are stressed. Emphasis is also placed on the performance of bit/minor roles in the musical theater genre. (UC, CSU)

MUSIC 020C - Voice for Musical Theatre III - Units 1

Prerequisites: MUSIC-020B Voice for Musical Theatre II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is the study and development of vocal production techniques for the advanced musical theater performer ready for supporting acting roles. The principles of singing movement and gestures, soloist diction, advanced belting, advanced-level choreography, and advanced staging are stressed. Emphasis is also placed on the performance of supporting roles in the musical theater genre. (UC, CSU)

MUSIC 020D - Voice for Musical Theatre IV - Units 1

Prerequisites: MUSIC-020C Voice for Musical Theatre III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is the study and development of vocal techniques for the advanced musical theater performer ready for leading roles in productions. The principles of advanced stage movement and gestures, advanced lyric diction, advanced belting, advanced choreography, and advanced staging as a lead character are stressed. Emphasis is also placed on the advanced audition techniques and audition repertoire. (UC, CSU)

MUSIC 022 - Wind Ensemble - Units 1

Limitations on Enrollment: Qualified Performer: A minimum of high school concert band experience and/or sufficient performance skills to participate in a college level concert band.
Course for concert band musicians with literature selection for bands of a smaller size and instrumentation. (CSU)

MUSIC 026 - Symphonic Band - Units 1-2

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of symphonic band literature with emphasis on sight-reading and public performance. The student may receive credit in this course for a maximum of four semesters. (UC, CSU, C-ID MUSIC 180)

MUSIC 027 - Orchestra - Units 1-2

Limitations on Enrollment: Qualified Performer: A minimum of
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high school concert band experience and/or sufficient performance skills to participate in a college level concert band.
This course is dedicated to the rehearsal and performance of orchestral literature with emphasis on sight reading and public performance. The student may receive credit in this course for a maximum of four semesters. (UC, CSU, C-ID MUS 180)

MUSIC 028 - Concert Band - Units 1

Limitations on Enrollment: Qualified Performer: A minimum of high school concert band experience and/or sufficient performance skills to participate in a college level concert band.
This course is dedicated to the rehearsal and performance of concert band literature with emphasis on sight reading and public performance. The group performance a great variety of concert band music from traditional to contemporary. The student may receive credit in this course for a maximum of four semesters. A minimum of high school band experience required. (CSU)

MUSIC 029 - Jazz Band - Units 1-2

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of jazz band literature with emphasis on sight-reading and public performance. The course includes concentration on the techniques and styles of jazz, jazz-rock, and improvisation. The student may receive credit for this course for a maximum of four semesters. (UC, CSU, C-ID MUS 180)

MUSIC 030A - Class Guitar - Units 1

This course is a first course in development of techniques for the guitar. There is an emphasis on building chord vocabulary sufficient to accompany wide vocal ranges and learning to read music. (UC, CSU)

MUSIC 030B - Class Guitar - Units 1

Prerequisites: MUSIC-030A Class Guitar with a grade of "C" or better.

This course is a second course in guitar. The course includes upper position chord routines, transposition, notation, solo playing, and essentials of the classic guitar. (UC, CSU)

MUSIC 031 - Popular Wind Band Literature - Units 1

Limitations on Enrollment: Qualified Performer: A minimum of high school concert band experience and/or sufficient performance skills to participate in a college level concert band.
This course is designed to explore music transcribed from classical orchestral literature for the modern Wind Band as well as transcriptions of popular musicals of the present and past that have been written for the modern concert band. In addition this course will explore the latest in new works written for the large band medium. (CSU)

MUSIC 032 - Delta Vocal Jazz - Units 1

Limitations on Enrollment: Qualified Performer.

This course is designed for the student interested in the field of commercial music and entertainment. The ensemble consists of singer, backup instrumentalists, and technical crew who work together to study and perform selected musical arrangements. Opportunity for solo singing is frequent. The course stresses the study and performance of the unique American idioms of vocal jazz and songs of the American Musical Theater. The study of proper vocal technique, stage presence, and stage movement are also stressed. The student may receive credit for this course for a maximum of four semesters. (CSU)

MUSIC 036A - Class Piano - Units 1

This course is designed for the student who wishes to play the piano for enjoyment and pleasure or who needs to use the instrument as a future elementary school teacher. (UC, CSU)

MUSIC 036B - Class Piano - Units 1

Prerequisites: MUSIC-036A Class Piano with a grade of "C" or better.

This course is the continuation of study for the student who wishes to continue to play the piano for enjoyment and pleasure or who needs to use the instrument as a future elementary school teacher. (UC, CSU)

MUSIC 036C - Class Piano - Units 1

Prerequisites: MUSIC-036B Class Piano with a grade of "C" or better.

This course is the continuation of study for the student who wishes to play the piano for enjoyment and pleasure, or who needs to use the instrument as a future elementary classroom teacher. (UC, CSU)

MUSIC 036D - Class Piano - Units 1

Prerequisites: MUSIC-036C Class Piano with a grade of "C" or better.

This course is the continuation of study for the student who wishes to play the piano for enjoyment and pleasure, or who needs to use the instrument as a future elementary classroom teacher. (UC, CSU)

MUSIC 038A - Class Piano for Music Majors I - Units 1

This course is an introduction to basic keyboard skills for students majoring in music. Emphasis will be on five-finger positions, primary chord progressions and pieces with basic harmony. (UC, CSU)

MUSIC 038B - Class Piano for Music Majors II - Units 1

Prerequisites: MUSIC-038A Class Piano for Music Majors I with a grade of "C" or better.

This course is a continuation of 38A with an emphasis on scales, arpeggios, sight-reading, accompaniment patterns and easy classical pieces. (UC, CSU)

MUSIC 038C - Class Piano for Music Majors III - Units 1

Prerequisites: MUSIC-038B Class Piano for Music Majors II with a grade of "C" or better.

This course is a continuation of 038B with an emphasis on intermediate level literature with a variety of accompaniments and further development of technical skills, chord progressions and scales. (UC, CSU)

MUSIC 038D - Class Piano for Music Majors IV - Units 1

Prerequisites: MUSIC-038C Class Piano for Music Majors III with a grade of "C" or better.

This course is a continuation of 38C and will emphasize repertoire at the level of Bach two-part inventions and Clementi Sonatinas. The student will be given a mock piano proficiency exam. (UC, CSU)

MUSIC 040A - Applied Music - Units 0.5-2

Prerequisites: MUSIC-003D, Music Theory and Musicianship IV, with a grade of "C" or better or concurrent enrollment in MUSIC 003A or 003B or 003C or 003D.

Corequisites: MUSIC 015, or MUSIC 017, or MUSIC 026, or MUSIC 027, or MUSIC 029.

Limitations on Enrollment: Qualified Performer.

Advisories: MUSIC-001 or MUSIC-058 each with a grade of "C"

or better.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the first semester Music Major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU, C-ID MUS 160)

MUSIC 040B - Applied Music - Units 0.5-2

Prerequisites: MUSIC-040A, Applied Music, and MUSIC-003D, Music Theory and Musicianship IV, each with a grade of "C" or better or concurrent enrollment in MUSIC 003A or 003B or 003C or 003D.

Corequisites: MUSIC 015, MUSIC 017, MUSIC 026, MUSIC 027, or MUSIC 029.

Limitations on Enrollment: Qualified Performer.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the second semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU, MUS C-ID 160)

MUSIC 040C - Applied Music - Units 0.5-2

Prerequisites: MUSIC-040B, Applied Music, and MUSIC-003D, Music Theory and Musicianship IV, each with a grade of "C" or better or concurrent enrollment in MUSIC 003A, 003B, 003C, or 003D.

Prerequisite Skills: 1. Completion of Music 040B Successful completion of 040B with a grade of C or better.

Corequisites: MUSIC 015, MUSIC 017, MUSIC 026, MUSIC 027, or MUSIC 029.

Limitations on Enrollment: Qualified Performer.

Advisories: MUSIC-58 with a grade of "C" or better Necessary for String Majors to have a performing ensemble.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the third semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. (UC, CSU, MUS C-ID 160)

MUSIC 040D - Applied Music - Units 0.5-2

Prerequisites: MUSIC-040C, Applied Music, and MUSIC-003D, Music Theory and Musicianship IV, each with a grade of "C" or better or concurrent enrollment in MUSIC 003A, or 003B, or 003C, or 003D.

Corequisites: MUSIC 015, MUSIC 017, MUSIC 026, MUSIC 027, or MUSIC 029.

Limitations on Enrollment: Qualified Performer.

Advisories: MUSIC-58 with a grade of "C" or better Needed for String Majors to have a performing ensemble.

This course is designed for individual, applied study of the student's principal performing medium and is an integral component for the developing musician. The course focuses on development of individual performance skills, as well as solo and orchestral repertoire for the fourth semester music major. The student completes a minimum of fifteen private lessons per semester and one hour of class instruction per week. Students

may receive credit in this course for a maximum of three semesters. (UC, CSU, C-ID MUS 160)

MUSIC 041 - Introduction to Media Arts, Music and Recording Technology - Units 3

Advisories: MUSIC-001.

This course is a survey of current trends and tools media production. Topics include music notation, sequencing and Musical Instrument Digital Interface (MIDI), audio recording, editing, synthesis, multimedia, content authoring, Internet applications, terminology, and career paths in the media industry. (CSU)

MUSIC 042A - Audio Recording Techniques - Units 3

Advisories: MUSIC-001.

This course is an introduction to the principles and practices of studio recording. Topics covered include: acoustics and the physical properties of sound, basic recording techniques, studio protocol, mixing consoles, microphone selection and placement, multi-track recording, audio processing, mixing, and current industry production values. (CSU)

MUSIC 042B - Audio Recording Techniques II - Units 3

Prerequisites: MUSIC-042A Audio Recording Techniques with a grade of "C" or better.

This is the second course in the recording series. This lecture and "hands-on" lab class builds on topics covered in MUSIC 42. It focuses on digital recording techniques, large format mixing consoles, basic and advanced microphone placement, session procedures, and mixdown. The entire recording process is covered from preproduction to mastering. Students gain experience by performing tracking, overdub, and mixing sessions. (CSU)

MUSIC 042C - Audio Recording Techniques III - Units 3

Prerequisites: MUSIC-042B Audio Recording Techniques II with a grade of "C" or better.

This is the third course in a four-part series and covers the techniques and tools for managing a recording studio. Topics include studio design, personnel selection, equipment budgeting, business basics, and operation of 24 track recording equipment. (CSU)

MUSIC 043A - Digital Audio Workstations - Units 3

Prerequisites: MUSIC-041 Introduction to Media Arts, Music and Recording Technology with a grade of "C" or better.

This course is a study of the production of audio and music utilizing a computer based production environment. Topics will include data entry, recording live sound, editing, plug-ins, mastering, and mixing for compact disc, picture, and radio. (CSU)

MUSIC 043B - Advanced Digital Audio Workstation - Units 3

Prerequisites: MUSIC-043A Digital Audio Workstations with a grade of "C" or better.

This course is the advanced production of audio, music, and sound utilizing a computer based Musical Instrument Digital Interface (MIDI)/Digital Audio Workstation (DAW) production environment. Topics will include recording live sound, editing, plug-ins, surround sound, mastering, data compression, and authoring content for compact disc, DVD, broadcast, video gaming, and Internet. (CSU)

MUSIC 044 - Audio Postproduction Techniques - Units 3

Advisories: MUSIC-042A with a grade of "C" or better.

This course is the study of the techniques for audio production and audio post-production for movie and video soundtracks, radio and television programming, commercials, and video games.

Topics include voice over, automatic dialogue replacement (ADR), Foley recording, dialog editing, music editing, surround sound mixing, sound effects, capturing and processing audio effects, and audio processing techniques. (CSU)

MUSIC 045 - Songwriting and Concept Development - Units 3

Advisories: MUSIC-001 with a grade of "C" or better.

This course is the study of songwriting and concept development from initial idea to its realization in a musical style. Topics include: developing marketable ideas, analysis of target markets, characteristics of diverse musical styles, steps in adapting ideas to styles, song writing and arranging. (CSU)

MUSIC 050H - Special Studies: Music - Units 1-2

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

Advisories: MUSIC-001 with a grade of "B" or better.

This course is open to all the student qualified to do advanced work in the field. The course includes research, directed reading, field work or other advanced study. (CSU)

MUSIC 051A - Woodwind Ensemble I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature of at least grade 3. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 051B - Woodwind Ensemble II - Units 1

Prerequisites: MUSIC-051A Woodwind Ensemble I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature of at least grade 4. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 051C - Woodwind Ensemble III - Units 1

Prerequisites: MUSIC-051B Woodwind Ensemble II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature of at least grade 5. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 051D - Woodwind Ensemble IV - Units 1

Prerequisites: MUSIC-051C Woodwind Ensemble III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature including grade 6 (advanced collegiate and professional difficulty music). The course includes sight-reading and public performance. (UC, CSU)

MUSIC 052A - Brass Ensemble I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of woodwind literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature of at least grade 3. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 052B - Brass Ensemble II - Units 1

Prerequisites: MUSIC-052A Brass Ensemble I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of brass literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature of at least grade 4. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 052C - Brass Ensemble III - Units 1

Prerequisites: MUSIC-052B Brass Ensemble II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of brass literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform brass ensemble literature of at least grade 5. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 052D - Brass Ensemble IV - Units 1

Prerequisites: MUSIC-052C Brass Ensemble III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of brass literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform woodwind ensemble literature including grade 6 (advanced collegiate and professional difficulty music). The course includes sight-reading and public performance. (UC, CSU)

MUSIC 053A - Percussion Ensemble I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of percussion literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform percussion ensemble literature of at least grade 3 and will be introduced to the primary percussion instruments of snare drum, mallet instruments, and timpani. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 053B - Percussion Ensemble II - Units 1

Prerequisites: MUSIC-053A Percussion Ensemble I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of percussion literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform percussion ensemble literature of at least grade 4 and will be introduced to a wider variety of instruments, including drum set and instruments from various cultures. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 053C - Percussion Ensemble III - Units 1

Prerequisites: MUSIC-053B Percussion Ensemble II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of percussion literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform percussion ensemble literature of at least grade 5 and will develop an intermediate technique on snare drum, mallet instruments, timpani, and a wide range of instruments from various cultures. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 053D - Percussion Ensemble IV - Units 1

Prerequisites: MUSIC-053C Percussion Ensemble III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of percussion literature for various combinations of duets, trios, quartets and larger chamber ensembles. Students in this course will perform percussion ensemble literature including grade 6 difficulty and will develop an advanced technique on snare drum, mallet instruments, timpani, and a wide variety of instruments from various cultures. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 057A - Guitar Ensemble I - Units 1

Limitations on Enrollment: Qualified Performer.

Advisories: MUSIC-030B with a grade of "C" or better.

This course is for beginning guitarists and is dedicated to playing in various sizes of ensembles. Emphasis will be on majors scales and arpeggios, beginning finger technique, Baroque ornamentation, vibrato, and proper rest stroke articulations and mechanics. (UC, CSU)

MUSIC 057B - Guitar Ensemble II - Units 1

Prerequisites: MUSIC-057A Guitar Ensemble I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is for intermediate guitarists and is dedicated to playing in various sizes of ensembles. Emphasis will be on first position minor scales and arpeggios, free stroke articulations, extended left-hand techniques, accompaniment fundamentals and intermediate classical finger techniques. (UC, CSU)

MUSIC 057C - Guitar Ensemble III - Units 1

Prerequisites: MUSIC-057B Guitar Ensemble II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is for advanced-intermediate guitarists and is dedicated to playing in various sizes of ensembles. Emphasis will be on minor scales in several positions, extended right-hand techniques, multiple line playing, right-hand voice balancing and left-hand legato playing with thumb accompaniment patterns. (UC, CSU)

MUSIC 057D - Guitar Ensemble IV - Units 1

Prerequisites: MUSIC-057C Guitar Ensemble III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is for advanced guitarists and is dedicated to playing in various sizes of ensembles. Emphasis will be on scales in a variety of positions with alternate fingerings, seventh chord arpeggios, upper register playing, contemporary notation, duos with one person per part. (UC, CSU)

MUSIC 058A - String Orchestra I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of level 3 repertoire for string orchestra. Emphasis on elementary bowing techniques, basic left-hand finger patterns and one octave major and minor scales in first position. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 058B - String Orchestra II - Units 1

Prerequisites: MUSIC-058A String Orchestra I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of level 4 repertoire for string orchestra. Emphasis on 2nd and 3rd positions, double stops, intro to shifting and arpeggios. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 058C - String Orchestra III - Units 1

Prerequisites: MUSIC-058B String Orchestra II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of level 5 repertoire for string orchestra. Emphasis on 3rd and 4th positions, 3-4 string double stops/chords, bariolage and hand/wrist vibrato. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 058D - String Orchestra IV - Units 1

Prerequisites: MUSIC-058C String Orchestra III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of level 6 repertoire for string orchestra. Emphasis on advanced bowing techniques, 6th, 7th and 8th positions, and contraction patterns in the left hand. The course includes sight-reading and public performance. (UC, CSU)

MUSIC 061 - Studio Band - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of commercial band literature with emphasis on sight reading and public performance. The student may receive credit in this course for a maximum of four semesters. (UC, CSU)

MUSIC 063A - Jazz Improvisation I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the theory and practice of jazz fundamentals and improvisation. The course will include application of basic jazz progressions, idiomatic jazz language and how to solo over common standards and blues. (UC, CSU)

MUSIC 063B - Jazz Improvisation II - Units 1

Prerequisites: MUSIC-063A Jazz Improvisation I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is a continuation of 63A. Concepts covered will be ii-V-I progressions in major and minor keys, seventh chord arpeggios and digital patterns. These concepts will be applied to jazz standards. (UC, CSU)

MUSIC 063C - Jazz Improvisation III - Units 1

Prerequisites: MUSIC-063B Jazz Improvisation II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is a continuation 63B. Concepts covered will be: bebop scales, modes of melodic minor scale, modal and hard bop compositions and altered dominant chords. (UC, CSU)

MUSIC 063D - Jazz Improvisation IV - Units 1

Prerequisites: MUSIC-063C Jazz Improvisation III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is a continuation of 63C. Topics will include: lydian, whole-tone and diminished scales, chromatic modal harmony and Coltrane changes. (UC, CSU)

MUSIC 064A - Jazz Combo I - Units 1

Limitations on Enrollment: Qualified Performer.

This course is dedicated to rehearsal and performance of literature for small jazz combo in the bebop style. Included in the jazz combo are piano, bass, and drums as well as various other solo instruments. Emphasis includes improvisation, sight-reading, and performance. (UC, CSU)

MUSIC 064B - Jazz Combo II - Units 1

Prerequisites: MUSIC-064A Jazz Combo I with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to rehearsal and performance of literature for small jazz combo in the hard bop style. Included in the jazz combo are piano, bass, and drums as well as various other solo instruments. Emphasis includes improvisation, sight-reading, and performance. (UC, CSU)

MUSIC 064C - Jazz Combo III - Units 1

Prerequisites: MUSIC-064B Jazz Combo II with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to rehearsal and performance of literature for small jazz combo in the post bop style. Included in the jazz combo are piano, bass, and drums as well as various other solo instruments. Emphasis includes improvisation, sight-reading, and performance. (UC, CSU)

MUSIC 064D - Jazz Combo IV - Units 1

Prerequisites: MUSIC-064C Jazz Combo III with a grade of "C" or better.

Limitations on Enrollment: Qualified Performer.

This course is dedicated to rehearsal and performance of literature for small jazz combo in contemporary styles. Included in the jazz combo are piano, bass, and drums as well as various other solo instruments. Emphasis includes improvisation, sight-reading, and performance. (UC, CSU)

MUSIC 075 - Selected Topics: Music - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Music not already covered by the existing curriculum.

MUSIC 101 - Piano for Older Adults - Units 0

This course is designed to give the students an opportunity to work with the piano. Emphasis will be working as an individual as well as in ensemble settings.

MUSIC 102 - Creative Seniors: Music - Units 0

Limitations on Enrollment: Qualified Performer.

This course is designed to give the students an opportunity to work with a number of studio instruments. Emphasis work as an individual as well as in ensemble settings.

MUSIC 115 - Delta Singers for Seniors - Units 0

Limitations on Enrollment: Qualified Performer.

This course is designed to develop the art of singing in the small choral ensemble. The choir will consist of 20-30 members and includes the singing of choral masterworks from all historical periods for the chamber choir. Sight-reading and proper vocal techniques are also stressed.

MUSIC 117 - Concert Choir for Seniors - Units 0

Limitations on Enrollment: Qualified Performer.

This course is designed to develop the art of singing in the large choral ensemble. This ensemble stresses the singing of choral masterworks for the large choir from all historical periods. Sight-reading and proper vocal technique also are stressed.

MUSIC 118 - Chorale for Seniors - Units 0

Limitations on Enrollment: Qualified Performer.

The Chorale is a choral ensemble for both students and community singers wishing to further knowledge of choral repertoire, vocal technique, and the enhancement of ensemble singing skills. The course stresses the study and performance of major works from the choral repertoire. Previous choral experience is recommended.

MUSIC 126 - Symphonic Band for Seniors - Units 0

Limitations on Enrollment: Qualified Performer.

Advisories: MUSIC-026 with a grade of "C" or better.

This course is dedicated to the rehearsal and performance of symphonic band literature with emphasis on sight reading and public performance.

MUSIC 128 - Concert Band for Seniors - Units 0

Limitations on Enrollment: Qualified Performer: A minimum of high school concert band experience and/or sufficient performance skills to participate in a college level concert band.

This course is dedicated to the rehearsal and performance of concert band literature with emphasis on sight reading and public performance. This ensemble is open to all members of the community with at least high school concert band playing experience.

MUSIC 161 - Studio Band for Seniors - Units 0

Limitations on Enrollment: Qualified Performer.

This course is dedicated to the rehearsal and performance of jazz ensemble literature with emphasis on improvisation, sight reading and public performance.

Natural Resources

N R 002 - Environmental Science - Units 3

Prerequisites: Reading Level II.

This course is designed to examine the need, importance, and philosophy of conservation of natural resources in our contemporary world. Human dependency on resources and an understanding of ecological principles and natural systems are emphasized. Topics include natural resource classification; history, importance, and methods of conservation; resource management issues; citizens' roles in conservation; and prospects for the future. Current environmental issues are discussed from local, national, and global perspectives. The course is designed to increase student's awareness of the

importance of conservation of natural resources as a social and behavioral science and to increase student's participation in natural resource conservation. (UC, CSU)

Nursing

NURS 050H - Special Studies in Nursing - Units 1-4

Limitations on Enrollment: Admission to the Associate Degree Nursing Program and Admission to the Psychiatric Technician Program. To qualify for NURS 050H, a student must have completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and Division Dean.

This course is offered to any student qualified to do advanced work through independent study in nursing through literature research, clinical investigation, or a combination of the two.

NURS 093V - Work Experience: Associate Degree Nursing - Units 1-4

Limitations on Enrollment: Health & TB Clearance.

This course is designed to give the student college credit for on-the-job experience when correlated with a course relating to that job. The work experience course for students enrolled in the Associate Degree Nursing program will provide an opportunity for students to participate in relevant work experiences in health care facilities utilizing skills in which competency has been met in prior nursing courses. All students must demonstrate new and expanded learning experiences before being permitted to repeat work experience. The course may be repeated for a maximum total of sixteen units.

Nursing A.D.N.

NURSADN 001 - Fundamentals of Nursing Practice - Units 5

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course presents foundational concepts for nursing practice through the framework of the Client Needs model. Nursing theory and basic skills are presented that enhance a safe and effective care environment. Behaviors that promote and maintain health are taught. Psychosocial and physiological integrity are addressed through health assessment skills. This course will incorporate a focus on the geriatric client, as appropriate, and nutritional needs of all clients. A community project addressing health screening is presented. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities.(CSU)

NURSADN 002 - Introduction Medical-Surgical Nursing - Units 5

Prerequisites: NURSADN-001, Fundamentals of Nursing Practice, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course introduces beginning concepts of Medical-Surgical nursing through the Client Needs model. Course content includes perioperative nursing and basic principles meeting the needs of clients who are experiencing alterations in body systems. Health promotion and maintenance as well as psychosocial balance are presented. A community project in the area of health education and healthcare access is addressed. This course will incorporate a focus on the geriatric client, as appropriate, and nutritional needs of all clients. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This

course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSADN 003A - Introduction to Medication Administration for Nursing Practice - Units 1

Corequisites: NURSADN-001 or NURSADN-002.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course presents introduction to pharmacology principles for nursing practice. Based on the Client Needs model, this beginning course introduces the student nurse to pharmacokinetics, adverse reactions, interactions, and nursing role in the administration of medications. Major drug classifications include those that treat infection, pain, cardiovascular and renal systems as well as fluids and electrolytes. The student will apply the nursing process to the study of medications and effects on clients. This course is designed to enhance the study of nursing care in association with first semester nursing courses NURSADN 001 and NURSADN 002. (CSU)

NURSADN 003B - Intermediate Medication Administration for Nursing Practice - Units 1

Corequisites: NURSADN-004 Maternal, Newborn, and Reproductive Health Nursing or NURSADN-005 Infancy through Young Adult Nursing.

This course continues the study of pharmacology principles for nursing practice. Based on the Client Needs model, this course addresses the major drug classifications used to treat reproductive, immune, digestive, respiratory and blood disorders as well as inflammation and diabetes. The student will apply the nursing process to the study of medications and their effects on clients. This course is designed to enhance the study of nursing care in association with second semester nursing courses ADN 004 and ADN 005. (CSU)

NURSADN 003C - Advanced Medication Administration for Nursing Practice - Units 1

Corequisites: NURSADN-006 Intermediate Medical-Surgical Nursing or NURSADN-007 Neuro-Psychiatric Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course continues the study of pharmacology principles for nursing practice. Based on the Client Needs Model, this course addresses the major drug classifications used to treat neurological, cardiovascular, and endocrine disorders as well as addressing chemotherapeutic agents and adjuvant medications for pain. The student will apply the nursing process to the study of medications and their effects on clients. This course is designed to enhance the study of nursing care in association with third semester nursing courses ADN 006 and ADN 007. (CSU)

NURSADN 004 - Maternal, Newborn, and Reproductive Health Nursing - Units 4

Prerequisites: NURSADN-002, Introduction Medical-Surgical Nursing, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course introduces concepts of reproductive, maternity and newborn nursing through the Client Needs Model. Course content includes both normal and complicated reproductive health including antepartum, intrapartum and postpartum nursing care as well as complications that may occur. A lifespan focus on the childbearing woman and family is addressed. Nursing care for clients with disorders of the reproductive system is also studied. This course will incorporate a focus on the geriatric client,

as appropriate, and nutritional needs of all clients. A community project in the area of reproductive health promotion will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSADN 004L - Maternal, Newborn and Reproductive Health Nursing - Units 2.5

Corequisites: NURSADN-004 Maternal, Newborn, and Reproductive Health Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course introduces concepts of reproductive, maternity and newborn nursing through the Client Needs Model. Course content includes both normal and complicated reproductive health including antepartum, intrapartum and postpartum nursing care as well as complications that may occur. A lifespan focus on the childbearing woman and family is addressed. Nursing care for clients with disorders of the reproductive system is also studied. A community project in the area of reproductive health promotion will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSADN 005 - Infancy Through Young Adult Nursing - Units 4

Prerequisites: NURSADN-002, Introduction Medical-Surgical Nursing, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course introduces concepts of caring for infant, child, adolescent and young adult populations through the Client Needs model, who experience a variety of health issues. Course content includes both normal developmental needs and also reviews disorders to all specific body systems, including the pediatric clients nutritional needs. Psychosocial needs of the pediatric population and families are presented. A community project in the area of infant, child adolescent and young adult health promotion will be completed. The student will apply the Nursing Process to develop practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities.(CSU)

NURSADN 005L - Infancy through Young Adult Nursing - Units 2.5

Corequisites: NURSADN-005 Infancy Through Young Adult Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This laboratory course introduces concepts of caring for infant, child, adolescent and young adult populations through the Client Needs model, who experience a variety of health issues. Course content includes both normal developmental needs and also reviews disorders to all specific body systems. The musculoskeletal system is explored in relationship to young adults and maintenance of physiological integrity. Psychosocial needs of the pediatric population and families are presented. A community project in the area of infant, child adolescent and young adult health promotion will be completed. The student will apply the Nursing Process to develop practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities.(CSU)

NURSADN 006 - Intermediate Medical-Surgical Nursing - Units 2

Prerequisites: NURSADN-005, Infancy through Young Adult

Nursing, and NURSADN-005L Infancy through Young Adult Nursing, and NURSADN-003B, Intermediate Medication Administration for Nursing Practice, each with a grade of "C" or better.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program and.

This course introduces intermediate concepts of Medical-Surgical nursing through the Client Needs model. Course content includes alterations of body systems with concentration in the maintenance of physiological integrity, such as, inflammatory processes, autoimmune disorders and other disorders. Health promotion and maintenance as well as psychosocial balance are also advanced. A lifespan focus on the adult client with multiple medical disorders is offered. A community project in the area of client education and support for those with alterations of body systems will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSADN 006L - Intermediate Medical-Surgical Nursing Lab - Units 2.5

Corequisites: NURSADN-006 Intermediate Medical-Surgical Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This laboratory course introduces intermediate concepts of Medical-Surgical nursing through the Client Needs model. Course content includes inflammatory processes, autoimmune disorders and other alterations of body systems with concentration in the maintenance of physiological integrity. Health promotion and maintenance as well as psychosocial balance are also advanced. A lifespan focus on the adult client with multiple medical disorders is offered. A community project in the area of client education and support for those with alterations of body systems will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSADN 007 - Neuro-Psychiatric Nursing - Units 2

Prerequisites: NURSADN-005 Infancy through Young Adult Nursing and NURSADN-005L Infancy through Young Adult Nursing NURSADN-003B Intermediate Medication Administration for Nursing Practice each with a grade of "C" or better and.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program and.

This course presents principles of physiological and psychosocial integrity and how the nurse provides care through the Client Needs model. The neurological- and psychiatric-based disorders are presented as well as client and nursing responses to these disorders. Health promotion and maintenance is emphasized in the advancement of mental health and the prevention of neuropsychiatric disorders. Clients from childhood to older adult are addressed in the lifespan focus of this course. A community project in the area of substance abuse prevention and treatment will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSADN 007L - Neuro-Psychiatric Nursing - Units 2.5

Corequisites: NURSADN-007 Neuro-Psychiatric Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This laboratory course presents principles of physiological and psychosocial integrity and how the nurse provides care through the Client Needs model. The neurological- and psychiatric-based

disorders are presented as well as client and nursing responses to these disorders. Health promotion and maintenance is emphasized in the advancement of mental health and the prevention of neuropsychiatric disorders. Clients from childhood to older adult are addressed in the lifespan focus of this course. A community project in the area of substance abuse prevention and treatment will be completed. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSADN 008 - Advanced Medical-Surgical Nursing - Units 2.5

Prerequisites: NURSADN-007 Neuro-Psychiatric Nursing and NURSADN-007L Neuro-Psychiatric Nursing NURSADN-003C Advanced Medication Administration for Nursing Practice each with a grade of "C" or better and.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program and.

This course introduces advanced concepts of Medical-Surgical nursing through the Client Needs model. Course content includes the care of clients with significant alterations in body systems that are life-threatening and/or pose potential for disability or death including burns, gastrointestinal, renal, endocrine, immune, neurological, respiratory, cardiovascular and hematological disorders and injuries that threaten physiological integrity. Health promotion and maintenance concepts are addressed. A lifespan focus on the children and adults with multiple medical or complex disorders client with multiple medical disorders is offered. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSADN 008L - Advanced Medical-Surgical Nursing - Units 2.5

Corequisites: NURSADN-008 Advanced Medical-Surgical Nursing.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This laboratory course introduces advanced concepts of Medical-Surgical nursing through the Client Needs model. Course content includes the care of clients with significant alterations in body systems that are life-threatening and/or pose potential for disability or death including burns, gastrointestinal, renal, endocrine, immune, neurological, respiratory, cardiovascular and hematological disorders and injuries that threaten physiological integrity. Health promotion and maintenance concepts are addressed. A lifespan focus on the children and adults with multiple medical or complex disorders client with multiple medical disorders is offered. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSADN 009 - Transition to Nursing Practice - Units 3

Prerequisites: NURSADN-008 Advanced Medical-Surgical Nursing and NURSADN-008L Advanced Medical-Surgical Nursing each with a grade of "C" or better.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This course provides experience and content that assists the graduating student in preparation for practice. Emphasis is placed on advanced geriatric study and clients with multi-system, chronic disorders including clients with cancer and AIDS. Other topics addressed include leadership, management, and supervision, job-seeking and resume skills. In addition, a community project will be completed that assesses disaster and emergency planning needs of local populations. The student will

apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSADN 009L - Transition to Nursing Practice - Units 2.5

Corequisites: NURSADN-009 Transition to Nursing Practice.

Limitations on Enrollment: Admission to the Associate Degree Nursing Program.

This laboratory course provides experience and content that assists the graduating student in preparation for practice. Emphasis is placed on advanced geriatric study and clients with multi-system, chronic disorders including clients with cancer and AIDS. Other topics addressed include leadership, management, and supervision, job-seeking and resume skills. In addition, a community project will be completed that assesses disaster and emergency planning needs of local populations. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course may include supervised clinical experiences in skills labs and health care facilities as well as a preceptorship experience. (CSU)

Nursing Psychiatric Technician

NURSPT 010 - Foundations of Nursing - Units 3

Prerequisites: BIOL-031 Human Anatomy or BIOL-033 Anatomy & Physiology and H S-019 Human Development and H S-036 Medical Terminology and Speech and PSYCH-001 Introduction to Psychology each with a grade of "C" or better.

Corequisites: NURSPT-010L Foundations of Nursing Lab.

This course presents foundational concepts for nursing practice through the framework of the Client Needs model. Nursing theory and basic skills are presented that enhance a safe and effective care environment. Behaviors that promote and maintain health are taught. Psychosocial and physiological integrity are addressed through health assessment skills. The student will begin to apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSPT 010L - Foundations of Nursing Lab - Units 2

Prerequisites: BIOL-031 Human Anatomy or BIOL-033 Anatomy & Physiology and H S-019 Human Development and H S-036 Medical Terminology and Speech PSYCH-001 Introduction to Psychology each with a grade of "C" or better and.

Corequisites: NURSPT-010 Foundations of Nursing.

This course presents foundational concepts for nursing practice through the framework of the Client Needs model. Nursing theory and basic skills are presented that enhance a safe and effective care environment. Behaviors that promote and maintain health are taught. Psychosocial and physiological integrity are addressed through health assessment skills. The student will begin to apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSPT 011 - Medical Surgical Nursing I - Units 2.5

Prerequisites: NURSPT-010 Foundations of Nursing with a grade of "C" or better.

Corequisites: NURSPT-011L Medical Surgical Nursing I Lab.

This course introduces beginning concepts of Medical-Surgical nursing through the Client Needs model. Course content includes perioperative nursing and basic principles meeting the needs of clients who are experiencing alterations in body systems. Health promotion and maintenance as well as psychosocial balance are presented. A lifespan focus on the geriatric client as well as meeting the needs of grieving and dying is offered. The student

will use the Nursing Process as the vehicle for meeting client needs. (CSU)

NURSPT 011L - Medical Surgical Nursing I Lab - Units 2

Prerequisites: NURSPT-010 Foundations of Nursing with a grade of "C" or better and.

Corequisites: NURSPT-011 Medical Surgical Nursing I.

This course introduces beginning concepts of Medical-Surgical nursing through the Client Needs model. Course content includes perioperative nursing and basic principles meeting the needs of clients who are experiencing alterations in body systems. Health promotion and maintenance as well as psychosocial balance are presented. A lifespan focus on the geriatric client as well as meeting the needs of grieving and dying is offered. The student will use the Nursing Process as the vehicle for meeting client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSPT 012 - Medical Surgical Nursing II - Units 2.5

Prerequisites: NURSPT-011 Medical Surgical Nursing I with a grade of "C" or better.

Corequisites: NURSPT-012L Medical Surgical Nursing II Lab.

This course introduces intermediate concepts of Medical-Surgical nursing through the Client Needs model. Course content includes nursing care of the client with common acute medical disorders of the cardiovascular, respiratory, neurological, musculoskeletal, genitourinary, and gynecological systems. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. (CSU)

NURSPT 012L - Medical Surgical Nursing II Lab - Units 2

Prerequisites: NURSPT-011 Medical Surgical Nursing I with a grade of "C" or better and.

Corequisites: NURSPT-012 Medical Surgical Nursing II.

This course introduces intermediate concepts of Medical-Surgical nursing through the Client Needs model. Course content includes nursing care of the client with common acute medical disorders of the cardiovascular, respiratory, neurological, musculoskeletal, genitourinary, and gynecological systems. The student will apply the Nursing Process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities.(CSU)

NURSPT 020 - Pharmacology I - Units 1.5

Prerequisites: BIOL-031 Human Anatomy BIOL-033 Anatomy & Physiology or H S-036 Medical Terminology and Speech and H S-019 Human Development and PSYCH-001 Introduction to Psychology each with a grade of "C" or better.

This course provides the student with an understanding of the role and responsibilities of the psychiatric technician in medication administration. Content includes an overview of basic pharmacological principles, terminology, legal and safety aspects of medication administration. Dosage calculation based on dimensional analysis will be taught. Topics covered include: introduction to drug classification, medications used in the treatment of developmental disorders, principles of psychobiology, psychopharmacology, and over the counter and alternative medications.(CSU)

NURSPT 021 - Pharmacology II - Units 1.5

Prerequisites: NURSPT-020 Pharmacology I with a grade of "C" or better.

This course provides psychiatric technician students with drug information that includes pharmacotherapeutics, pharmacodynamics, pharmacokinetics, contraindications and precautions, adverse effects, and drug interactions, as well as

client variables such as health status, life span, diet, lifestyle and habits, environment, and culture in relationship to drug therapy. Emphasis is placed on nursing responsibilities, such as maximizing therapeutic drug effects and minimizing adverse effects of drug therapy, appropriate client and family teaching, and ongoing assessment of the client. Opioid analgesics, anxiolytics, sedatives, hypnotics, anti-microbials, Anti-diabetics, and gastrointestinal, respiratory, Cardiovascular and Renal Medications are highlighted.(CSU)

NURSPT 022 - Pharmacology III - Units 1

Prerequisites: NURSPT-020 Pharmacology I with a grade of "C" or better.

This course provides psychiatric technician students with the more complex dosage calculations using dimensional analysis. Content includes general principles of pharmacology, legal, ethical, and safety aspects of medication administration. Drug information includes pharmacotherapeutics, pharmacodynamics, pharmacokinetics, contraindications and precautions, adverse effects, and drug interactions, as well as client variables such as health status, life span and gender, diet, lifestyle and habits, environment, and culture in relationship to drug therapy. Emphasis is placed on nursing responsibilities such as maximizing therapeutic effects and minimizing, adverse effects of drug therapy, appropriate client and family teaching, and ongoing assessment of the client.

Drugs highlighted include: central nervous system medications, non-steroidal anti-inflammatory drugs, endocrine, antivirals, immunosuppressants and cancer medications, antipsychotics, antidepressants, mood stabilizers, and drugs of abuse. (CSU)

NURSPT 030 - Developmental Disabilities Nursing - Units 3.5

Prerequisites: NURSPT-010, Foundations of Nursing, and NURSPT-010L, Foundations of Nursing Lab, each with a grade of "C" or better.

This course provides an introduction to developmental disabilities nursing through the Client Needs model. The nursing process is used to promote psychosocial integrity within the context of the health illness continuum across the life span. Topics include: orientation to developmental disabilities, client rights, assessment and intervention, behavioral analysis, etiologies, genetics, and ethical dilemmas. Emphasis is on nursing care, habilitation, adaptation, and normalization to maximize the individual's potential. The student will use the Nursing Process as the vehicle for meeting client needs. (CSU)

NURSPT 030L - Developmental Disabilities Nursing Lab - Units 3

Prerequisites: NURSPT-010 Foundations of Nursing with a grade of "C" or better.

Corequisites: NURSPT-030 Developmental Disabilities Nursing.

This course provides an introduction to developmental disabilities nursing through the Client Needs model. The nursing process is used to promote psychosocial integrity within the context of the health illness continuum across the life span. Topics include: orientation to developmental disabilities, client rights, assessment and intervention, behavioral analysis, etiologies, genetics, and ethical dilemmas. Emphasis is on nursing care, habilitation, adaptation, and normalization to maximize an individual's potential. The student will use the Nursing Process as the vehicle for meeting client needs. Clinical experiences will provide opportunities for students to participate in therapeutic activities in a variety of settings. (CSU)

NURSPT 031 - Advanced Developmental Disability Nursing - Units 3.5

Prerequisites: NURSPT-030, Developmental Disabilities Nursing, and NURSPT-030L, Developmental Disabilities Nursing Lab, each with a grade of "C" or better.

This course broadens the student's understanding and knowledge of developmental disabilities nursing through the Client Needs model. The focus is on attention deficit and hyperactivity disorder, normalization and active treatment, technological assistance, innovations for independence, test and measurements, sensory and motor integration, nutritional needs of the individual with developmental disabilities, associated diseases, case management, critical thinking, cultural competency, end of life care, team building, leadership, supervision, and ethical conduct. Emphasis is on nursing care, habilitation, adaptation, and normalization to maximize an individual's potential. The student will apply the nursing process to develop safe and effective practices that meet client needs. (CSU)

NURSPT 031L - Advanced Developmental Disability Nursing Lab - Units 3

Prerequisites: NURSPT-030 Developmental Disabilities Nursing with a grade of "C" or better.

Corequisites: NURSPT-031 Advanced Developmental Disability Nursing.

This course broadens the student's understanding and knowledge of developmental disabilities nursing through the Client Needs model. The focus is on attention deficit and hyperactivity disorder, normalization and active treatment, technological assistance, innovations for independence, test and measurements, sensory and motor integration, nutritional needs of the Individual with developmental disabilities, associated diseases, case management, critical thinking, cultural competency, end of life care, team building, leadership, supervision, and ethical conduct. Emphasis is on nursing care, habilitation, adaptation, and normalization to maximize an individual's potential. This is the laboratory portion of the course. Supervised clinical experiences will provide opportunities for students to participate in therapeutic activities in a variety of settings. The student will apply the nursing process to develop safe and effective practices that meet client needs. (CSU)

NURSPT 040 - Psychiatric Nursing I - Units 3.5

Prerequisites: NURSPT-010L, Foundations of Nursing Lab, and NURSPT-010, Foundations of Nursing, each with a grade of "C" or better.

This course is designed to prepare the student to provide care to mentally ill clients in acute and chronic psychiatric settings, through the Client Needs model. Emphasis is placed on ethics and legal issues, history of mental health and illness, treatment modalities, DSM IV T-R, group dynamics/group process, therapeutic relationships, communication and interviewing skills, documentation, assertiveness, client education, dissociative disorders, psychiatric illness associated with childhood and adolescence, social psychology, and prevention & management of assaultive behavior. The student will apply the nursing process to develop safe and effective practices that meet client needs. (CSU)

NURSPT 040L - Psychiatric Nursing I Lab - Units 3

Prerequisites: NURSPT-010 Foundations of Nursing with a grade of "C" or better.

Corequisites: NURSPT-040 Psychiatric Nursing I.

This course is designed to prepare the student to provide care to mentally ill clients in acute and chronic psychiatric settings, through the Client Needs model. Emphasis is placed on ethics

and legal issues, history of mental health and illness, treatment modalities, DSM IV & V, group dynamics/group process, therapeutic relationships, communication and interviewing skills, documentation, assertiveness, client education, dissociative disorders, psychiatric illness associated with childhood and adolescence, social psychology, and prevention & management of assaultive behavior. The student will apply the nursing process to develop safe and effective practices that meet client needs. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

NURSPT 041 - Psychiatric Nursing II - Units 3.5

Prerequisites: NURSPT-010, Foundations of Nursing, and NURSPT-010L, Foundations of Nursing Lab, and NURSPT-040, Psychiatric Nursing I, each with a grade of "C" or better.

This course broadens the student's understanding and knowledge of psychiatric nursing through the Client Needs model. It presents mental health concepts related to community mental health, anxiety and anxiety disorders, personality disorders, schizophrenia and other psychotic disorders, nutritional needs of the client with a psychiatric disorder, affective (mood) disorders, psychiatric health & illness in the aging population, sexual and gender identity disorders, eating disorders, addiction and co-dependency, crisis intervention and suicide prevention, cultural diversity, institutionalization, forensic nursing, and criminal thinking/psychopathology. (CSU)

NURSPT 041L - Psychiatric Nursing II Lab - Units 3

Prerequisites: NURSPT-040 Psychiatric Nursing I with a grade of "C" or better

Corequisites: NURSPT-041 Psychiatric Nursing II.

This course broadens the student's understanding and knowledge of psychiatric nursing through the Client Needs model. It presents mental health concepts related to community mental health, anxiety and anxiety disorders, personality disorders, schizophrenia and other psychotic disorders, nutritional needs of the client with a psychiatric disorder, affective (mood) disorders, psychiatric health & illness in the aging population, sexual and gender identity disorders, eating disorders, addiction and co-dependency, crisis intervention and suicide prevention, cultural diversity, institutionalization, forensic nursing, and criminal thinking/psychopathology. This course includes supervised clinical experiences in skills labs and health care facilities. (CSU)

P E Activities

PEACTIV 001A - Introductory Swimming - Units 1.5

This course is an introductory course for the non-swimmer. Physical and mental adjustment to water. (UC, CSU)

PEACTIV 001B - Survival Swimming - Units 1.5

Prerequisites: PEACTION-001A, Introductory Swimming, with a grade of "C" or better.

This course is a skill development course for the non-swimmer. Physical and mental adjustment to water. In addition to building stroke stamina skills. (UC, CSU)

PEACTIV 001C - Swim for Health - Units 1

Limitations on Enrollment: Qualified Performer Swimmer must be able to swim 25 yards without assistance, as well as complete an aerobic swim workout for a minimum of 25 minutes. This course is designed to help the introductory swimmer improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested in various health and fitness components. (CSU, UC)

PEACTIV 001D - Swim Training and Conditioning - Units 0.5-1

Prerequisites: PEACTION 001C with a grade of "C" or better.

This course is designed to help the intermediate swimmer improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested in various health and fitness components. (UC, CSU)

PEACTIV 001E - Advanced Swim for Health - Units 1

Prerequisites: PEACTION-001D, Swim for Health, with a grade of "C" or better.

This course is designed to help the advanced swimmer improve cardiovascular endurance through swimming and to teach sound individual conditioning techniques. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 002A - Water Fitness I - Units 1.5

Limitations on Enrollment: The student must be able to swim one width of the pool without assistance and without touching the bottom. Any stroke is acceptable, and the head may be out of the water.

This course is a beginning water exercise class executed primarily in shallow end water. The course is low impact and uses the water's resistance to improve cardiovascular fitness, flexibility, range of motion, strength and balance. Competitive swimming techniques are not required, but it is necessary to feel comfortable in both shallow and deep water. Flotation belts will be provided. (UC, CSU)

PEACTIV 002B - Water Fitness II - Units 1

Prerequisites: PEACTION-002A, Water Fitness I, with a grade of "C" or better.

This course is designed to introduce the student to the fundamentals of water exercise, and is executed in both deep and shallow water. The course is low impact, which includes working a range of motion, toning, stretching and balance. (UC, CSU)

PEACTIV 002C - Water Fitness III - Units 1

Prerequisites: PEACTION-002B, Water Fitness II, with a grade of "C" or better.

This course is an intermediate level course which builds on previous experience in water exercise. The course emphasizes student's ability to individually progress movement intensity to improve fitness. The course is a high intensity, high resistance, low impact, deep-water workout that focuses on cardio-respiratory and muscle endurance, muscle strength, and flexibility. (UC, CSU)

PEACTIV 002D - Water Fitness IV - Units 1

Prerequisites: PEACTION 002C, Water Fitness III, with a grade of "C" or better.

This course is an advanced level course which builds on previous experience in water exercise. The course is high intensity, high resistance, low impact, upright, deep-water workout that focuses on cardio-respiratory endurance, muscle strength, muscle endurance and flexibility. (UC, CSU)

PEACTIV 005A - Fall Spirit Training - Units 2

Instruction, training, and development of a corps of spirit leaders to promote enthusiasm for school athletic activities. Field trips might be required. (CSU)

PEACTIV 007A - Aerobics I - Units 1.5

This course is an introduction to a complete work-out done to music. The course includes stretching, body-weight training, and a cardiovascular workout. The course introduces physical training and conditioning techniques, physiology and anatomy of

exercise, nutrition and weight management, and cardiovascular disease and exercise. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 007B - Aerobics II - Units 1

Prerequisites: PEACTIV-007A, *Aerobics I*, with a grade of "C" or better.

This course is a continuation to aerobic exercises using rhythmic movement patterns to music. The course is designed to include warm-up activities, stretching, body weight training, and cardiovascular activity to increase flexibility and muscular endurance, and improve cardio-respiratory fitness. The course content is based on basic knowledge of training and conditioning techniques, physical activities and cardiovascular disease, exercise anatomy and physiology, and nutrition. The student will learn to develop a wellness plan which includes physical activities, nutrition, and relaxation techniques to combat stress. Each student is pre-tested and post-tested in a battery of health and physical fitness components. (UC, CSU)

PEACTIV 007C - Aerobics III - Units 1

Prerequisites: PEACTIV-007B, *Aerobics II*, with a grade of "C" or better.

This course is a continuation to aerobic exercises using rhythmic movement patterns to music. The course is designed to include warm-up activities, stretching, body weight training, and cardiovascular activity to increase flexibility and muscular endurance, and improve cardio-respiratory fitness. The course content is based on intermediate knowledge of training and conditioning techniques, physical activities and cardiovascular disease, exercise anatomy and physiology, and nutrition. The student will develop short-term wellness plan to incorporate into his/her lifestyle which include physical activities, nutrition, and relaxation techniques to combat stress. Each student is pre-tested and post-tested in a battery of health and physical fitness components. (UC, CSU)

PEACTIV 007D - Aerobics IV - Units 1

Prerequisites: PEACTIV-007C, *Aerobics III*, with a grade of "C" or better.

This course is a continuation to aerobic exercises using rhythmic movement patterns to music. The course is designed to include warm-up activities, stretching, body weight training, and cardiovascular activity to increase flexibility and muscular endurance, and improve cardio-respiratory fitness. The course content is based on advanced knowledge of training and conditioning techniques, physical activities and cardiovascular disease, exercise anatomy and physiology, and nutrition. The student will develop long-term wellness plan to incorporate into his/her lifestyle which include physical activities, nutrition, and relaxation techniques to combat stress. Each student is pre-tested and post-tested in a battery of health and physical fitness components. (UC, CSU)

PEACTIV 010A - Beginning Fitness Walking - Units 1

This course is designed to provide the student with physical and cardiovascular training. Emphasis is placed on stretching and attaining each individual's target heart rate. (UC, CSU)

PEACTIV 010B - Intermediate Fitness Walking - Units 1

Prerequisites: PEACTIV-010A, *Beginning Fitness Walking*, with a grade of "C" or better.

This course is designed to promote physical well-being through stress reduction, weight control, and walking. Attention is given to increasing cardiovascular efficiency, muscular strength, and endurance. (UC, CSU)

PEACTIV 010C - Advanced Fitness Walking - Units 1

Prerequisites: PEACTIV-010B, *Intermediate Fitness Walking*, with a grade of "C" or better.

This course is designed to promote lifelong physical and cardiovascular benefits to the student. Emphasis is focused on increasing cardiovascular efficiency, muscular strength, and endurance. (UC, CSU)

PEACTIV 010D - Fitness Walking IV - Units 1

Prerequisites: PEACTIV-010C, *Advanced Fitness Walking*, with a grade of "C" or better.

This course is designed to provide the student with an advanced understanding of the physical and cardiovascular benefits of fitness walking. Emphasis is focused on advanced warm up routines, techniques, and technology. (UC, CSU)

PEACTIV 011A - Yoga I - Units 1.5

This introductory level course is designed for participants with no previous yoga experience. It is a complete fitness program to achieve a more limber body, regardless of age, increase physical coordination, improve posture, and improve flexibility. Individuals will be introduced to controlled movements, concentration, and conscious breathing techniques. (UC, CSU)

PEACTIV 011B - Yoga II - Units 1

Prerequisites: PEACTIV-011A, *Yoga I*, with a grade of "C" or better.

This beginner level course is designed for participants with limited previous yoga experience. It is a complete fitness program to achieve a more limber body, regardless of age, increase physical coordination, improve posture, and improve flexibility. Individuals will review, demonstrate, and expand knowledge of controlled movements, concentration, and conscious breathing techniques. (UC, CSU)

PEACTIV 011C - Yoga III - Units 1

Prerequisites: PEACTIV-011B, *Yoga II*, with a grade of "C" or better.

This course is designed to emphasize the intermediate level of yoga. Stress is placed on the midsection, and muscle groups surrounding and assisting the midsection. It is a complete fitness program to achieve a more limber body, regardless of age, increase physical coordination, improve posture, and improve flexibility. (UC, CSU)

PEACTIV 011D - Yoga IV - Units 1

Prerequisites: PEACTIV-011C, *Yoga III*, with a grade of "C" or better.

This course is designed to emphasize the most advanced levels of yoga. Participants are expected to be of the highest physical health and condition. It is a complete fitness program to achieve a more limber body, regardless of age, increase physical coordination, improve posture, and improve flexibility. (UC, CSU)

PEACTIV 012A - Individual Conditioning I - Units 1.5

Limitations on Enrollment: Each student will submit a physical activity readiness questionnaire and will be cleared to participate in the class if the assessment indicates that the student does not have any physical limitations that would preclude them from doing vigorous physical activity.

This course is designed to improve the individual's physical fitness level through the use of physical fitness testing, aerobic exercise, resistive exercise training, and flexibility activities. Included are lectures designed to enhance the student's life-long approach and understanding of exercise and its effect on the body. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 012B - Individual Conditioning II - Units 1

Prerequisites: PEACTIV-012A Individual Conditioning I with a grade of "C" or better.

This course is designed to build upon the information learned in beginning individual conditioning. The student will continue the development of a life-long commitment to exercise. The course includes physical fitness testing, aerobic exercise, resistive exercise training, and flexibility activities. More extensive lectures on cardiovascular health, nutrition, and elements of exercise are included to enhance previous knowledge. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 012C - Individual Conditioning III - Units 1

Prerequisites: PEACTIV-012B Individual Conditioning II with a grade of "C" or better.

This course is designed to take the information learned in beginning individual conditioning and develop a life-long commitment to exercise. The course includes physical fitness testing, resistive exercise training, and flexibility activities. The overall experience culminates in students formulating an individualized program to meet their unique needs. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 012D - Individual Conditioning IV - Units 1

Prerequisites: PEACTIV-012C, Individual Conditioning III, with a grade of "C" or better.

This course is designed to take the information learned in previous individual conditioning classes and expand on the life-long commitment to exercise. The course includes advanced physical fitness testing, advanced resistive exercise training, and advanced flexibility activities. The class includes students assisting beginning students with formulating individualized conditioning programs. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 014A - Weight Training I - Units 1.5

This course is designed to give the student experience in the six basic levels of lifts. The student is exposed to an individual weight training program. Prevention and rehabilitation of injuries are stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 014B - Weight Training II - Units 1

Prerequisites: PEACTIV 014A, Weight Training I, with a grade of "C" or better.

This course is designed to give the student experience in intermediate level of lifts. The student develops an individual weight training program. Prevention and rehabilitation of injuries is stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 014C - Weight Training III - Units 1

Prerequisites: PEACTIV 014B, Weight Training II, with a grade of "C" or better.

This course is designed to give the student experience in the advanced levels of lifts. The student completes an individual weight training program. Prevention and rehabilitation of injuries are stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 014D - Weight Training IV - Units 1

Prerequisites: PEACTIV-014C, Weight Training III, with a grade of "C" or better.

This course is designed to give the student experience in progressive lifts. The student completes an individual weight

training program. Prevention and rehabilitation of injuries are stressed. Each student is pre-tested and post-tested in various health and fitness components. (UC, CSU)

PEACTIV 015 - Selected Topics: P E Active - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physical Education Activities not already covered by the existing curriculum. (CSU)

PEACTIV 022 - Tennis - Units 0.5-1

This course is an introduction to the rules, etiquette, fundamentals, and strategy of tennis. Physical conditioning, agility and the carry-over value of the activity are stressed. (UC, CSU)

PEACTIV 024A - Volleyball I - Units 1

This course is designed to provide the student an introduction to fundamentals of volleyball and to develop an understanding of the game. The skills of proper serving, passing and digging positional form will be performed. (UC, CSU)

PEACTIV 024B - Volleyball II - Units 1

Prerequisites: PEACTIV-024A Volleyball I with a grade of "C" or better.

This course is designed to provide the student the basic fundamentals of volleyball and to develop an understanding of the game. The skills of distance serving, passing movement and variations of the underhand and overhand dig will be performed. (UC, CSU)

PEACTIV 024C - Volleyball III - Units 1

Prerequisites: PEACTIV-024B Volleyball II with a grade of "C" or better.

This course is designed to provide the student an intermediate understanding of the fundamentals of volleyball and to develop a more intricate understanding of the game. The skills of the float serve, forward/backward movement passing and defending at the net will be performed. (UC, CSU)

PEACTIV 024D - Volleyball IV - Units 1

Prerequisites: PEACTIV-024C Volleyball III with a grade of "C" or better.

This course is designed to provide the student an advanced understanding of the rules, fundamentals, and strategy of power volleyball. The skills of the jump serve, off-balance passing and front line reads will be performed. (UC, CSU)

PEACTIV 025A - Basketball I - Units 1

This course is designed to provide the student an introduction to fundamentals of basketball and to develop an understanding of the game. This skills of proper shooting, dribbling, passing, screening and defending will be performed. (UC, CSU)

PEACTIV 025B - Basketball II - Units 1

Prerequisites: PEACTIV-025A Basketball I with a grade of "C" or better.

This course is designed to provide the student the basic fundamentals of basketball and to develop an understanding of the game. The skills of stationary shooting, weak hand and crossover dribbling, chest passing, away screening and man ball defending will be performed. (UC, CSU)

PEACTIV 025C - Basketball III - Units 1

Prerequisites: PEACTIV-025B Basketball II with a grade of "C"

or better.

This course is designed to provide the student an intermediate understanding of the fundamentals of basketball and to develop a more intricate understanding of the game. The skills of speed dribbling, post feed pass, on ball screening and defending on ball screens will be performed. (UC, CSU)

PEACTIV 025D - Basketball IV - Units 1

Prerequisites: PEACTIV-025C Basketball III with a grade of "C" or better.

This course is designed to provide the student an advanced understanding of the fundamentals and strategy of basketball. The skills of shooting off the bounce, the overhead pass, flare screens and defensive reading will be performed (UC, CSU)

PEACTIV 026A - Soccer I - Units 1

This course is designed to provide the student an introduction to fundamentals of soccer and to develop an understanding of the game. The skills of proper shooting, dribbling, passing, heading and individual defending will be stressed. (UC, CSU)

PEACTIV 026B - Soccer II - Units 1

Prerequisites: PEACTIV-026A, Soccer I, with a grade of "C" or better.

This course continues the study of soccer and developing a deeper understanding of the game. It focuses on improving the skills of shooting, dribbling, passing and heading and defending. The skills of volleying, feinting, give and go passing, and two-man defending will be introduced. (UC, CSU)

PEACTIV 026C - Soccer III - Units 1

Prerequisites: PEACTIV-026B, Soccer II, with a grade of "C" or better.

This course is designed to develop a more advanced understanding of soccer. The fundamentals of positional play and penetrating using the 2 versus 1 will be performed. (UC, CSU)

PEACTIV 026D - Soccer IV - Units 1

Prerequisites: PEACTIV-026C, Soccer III, with a grade of "C" or better.

This course is designed to develop a more advanced understanding of the game. The focus will be on systems of play, including 4-3-3, 4-4-2, and 3-5-2. The fundamentals of building out from the back and penetrating against 4, 5, or 6 defenders will be performed. (UC, CSU)

PEACTIV 031A - Beginning Bowling - Units 0.5-1

This course is an introduction to the rules and fundamentals of bowling. It is designed to create an interest in and a carry-over value for the game of bowling. (UC, CSU)

PEACTIV 031B - Intermediate Bowling - Units 0.5-1

Prerequisites: PEACTIV-031A Beginning Bowling with a grade of "C" or better.

This course is designed to review the basic skills of bowling and to learn the intermediate skills of the game. (UC, CSU)

PEACTIV 031C - Advanced Bowling - Units 0.5-1

Prerequisites: PEACTIV-031B Intermediate Bowling with a grade of "C" or better.

This course is designed to review the basic skills of bowling. Emphasis is on tournament and league play. (UC, CSU)

PEACTIV 032A - Golf I - Units 1

This course is designed to emphasize the fundamentals of grip, stance, and swing. Stress is placed upon fundamental positions of golf swing. Participation on the golf course is encouraged. (UC, CSU)

PEACTIV 032B - Golf II - Units 1

Prerequisites: PEACTIV-032A, Golf I, with a grade of "C" or better.

This course is designed to review the fundamentals of grip, stance, and swing. Rules and etiquette are introduced. Participation on the golf course is encouraged. (UC, CSU)

PEACTIV 032C - Golf III - Units 1

Prerequisites: PEACTIV-032B, Golf II, with a grade of "C" or better.

This course is designed to emphasize the intermediate levels of grip, stance, and swing. Stress is placed upon chipping and driving. Rules and etiquette are reviewed. Participation on the golf course is encouraged. (UC, CSU)

PEACTIV 032D - Golf IV - Units 1

Prerequisites: PEACTIV-032C, Golf III, with a grade of "C" or better.

This course is designed to emphasize the advanced levels of grip, stance, and swing. Stress is placed upon solid ball contact and ball flight. Rules and etiquette are reviewed. Participation on the golf course is encouraged. (UC, CSU)

PEACTIV 034A - Badminton I - Units 0.5-1

This course introduces the official singles and doubles games of badminton, including basic strokes, footwork, strategy, rules, and etiquette. (UC, CSU)

PEACTIV 034B - Badminton II - Units 1

Prerequisites: PEACTIV-034A, Badminton I, with a grade of "C" or better.

This course continues the study of the official singles and doubles games. It focuses on improving forehand and backhand strokes in addition to learning the drop shot and overhead drive. Footwork, strategy, scoring, and etiquette will also be emphasized. (UC, CSU)

PEACTIV 034C - Badminton III - Units 1

Prerequisites: PEACTIV-034B, Badminton II, with a grade of "C" or better.

Designed to further develop intermediate-level skills in both singles and doubles games. Focuses on offensive and defensive strategies, game play, court coverage, and analysis of strengths and weaknesses. (UC, CSU)

PEACTIV 034D - Badminton IV - Units 1

Prerequisites: PEACTIV-034C, Badminton III, with a grade of "C" or better.

Designed to refine students' skills in both singles and doubles games. Focuses on individual stroke analysis, playing strategies, and match play. (UC, CSU)

PEACTIV 039E - Adapted Swimming - Units 0.5-1

Limitations on Enrollment: Physician Authorization.

This course is designed for the physically limited student. The student works on developing his or her own individual programs in the swimming pool. Physical conditioning, awareness of the body's capabilities, agility, and life-long activities are stressed. (UC, CSU)

PEACTIV 039F - Adapted Conditioning - Units 0.5-1

This course is designed for the physically limited. The student works on individual programs. Physical conditioning, awareness of the body's capabilities, agility, and life-long activities are stressed. (UC, CSU)

PEACTIV 075 - Selected Topics: Physical Education Active - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physical Education Activity not already covered by the existing curriculum.

PEACTIV 101 - Adapted Physical Education - Units 0

This course is designed for the physically limited. Students work on individual programs. Physical conditioning, awareness of body's capabilities, agility and life-long activity are stressed.

P E Theory

PETHEORY015 - Selected topics: Physical Education Theory - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of physical education theory not already covered by the existing curricula. (CSU)

PETHEORY040 - Introduction to Kinesiology - Units 3

This course is an introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions. (UC, CSU, C-ID KIN 100)

PETHEORY041 - Sport in Society - Units 3

This course is an overview of the historical development of sport and current roles of sport in society. It includes interaction of sport with societal values and ethics as well as the outcomes affecting professional and amateur sports. (UC, CSU)

PETHEORY042A - Beginning Theory of Basketball - Units 2

The study of theory, philosophy, methods, and techniques relating to the coaching of basketball. Emphasis is placed on practice and event preparation; individual and team fundamentals; offensive and defensive techniques and strategies; motivation, training, and conditioning. (CSU)

PETHEORY042B - Advanced Theory of Basketball - Units 2

Prerequisites: PETHEORY-042A, Beginning Theory of Basketball, with a grade of "C" or better.

This course introduces the advanced theories, strategies, rules, and skills of basketball. Focus will be on the analysis of basketball theories and strategies through observation and video review. Students will learn to develop effective team strategies for a variety of competitive situations. (UC, CSU)

PETHEORY042J - Theory of Track and Field - Units 2

This course is designed to meet the needs of the student in the community by preparing the student to teach and coach track and field with a practical and effective approach. Emphasis is given to the most recent trends in training techniques for each of the track and field events. (UC, CSU)

PETHEORY042K - Theory of Baseball Offense - Units 2

Advisories: PEACTIV-027 Concurrent enrollment advised.

This course is designed to give the student a practical, effective, and up-to-date approach in teaching and coaching the offensive skills of baseball. Particular attention is paid to hitting technique, hitting drills, correction of faults, mental approach, bunting, base running, and offensive strategy and philosophy. (UC, CSU)

PETHEORY042L - Theory of Baseball Defense - Units 2

This course is designed to give the student a practical, effective, and up-to-date approach in teaching and coaching the defensive skills of baseball. Particular attention is paid to defensive technique at each position, individual defensive drills, team defensive drills, team defensive strategy, pitching, and catching. (UC, CSU)

PETHEORY042M - Beginning Theory of Offensive Football - Units 2

Advisories: PEACTIV-029 with a grade of "C" or better.

This course is designed to teach elementary offensive football. Offensive overviews, establishing formation concepts, areas of attack dual system, backfield actions, cadence, line symbols and term line stance, back stance, types of blocks, recognition of defenses, and offensive kicking game are covered. Kick-off return, point after touchdown, field goal, and the running game are stressed. (UC, CSU)

PETHEORY042N - Advanced Theory of Offensive Football - Units 2

Prerequisites: PETHEORY-042M Beginning Theory of Offensive Football with a grade of "C" or better.

This course is designed to help the student perform coaching and teaching assignments at lower levels from Pop Warner to high school football. The student learns to establish a football system of offense. (UC, CSU)

PETHEORY042O - Beginning Theory of Defensive Football - Units 2

Advisories: PEACTIV-029 with a grade of "C" or better.

This course is an introduction to the philosophy, technology, and strategy of defensive football played at the college level. (UC, CSU)

PETHEORY042P - Advanced Theory of Defensive Football - Units 2

Prerequisites: PETHEORY-042O Beginning Theory of Defensive Football with a grade of "C" or better.

This course is a review of the philosophy, terminology, and strategy of defensive football played at the college level. (UC, CSU)

PETHEORY042Q - Beginning Coaching of Offensive Football - Units 1.5

This course is designed to teach the coaching and demonstration of offensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the elementary level of running, throwing, catching, and blocking are stressed. (UC, CSU)

PETHEORY042R - Intermediate Coaching of Offensive Football - Units 1.5

Prerequisites: PETHEORY 042Q with a grade of "C" or better.

This course is designed to teach the coaching and demonstration of intermediate offensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the intermediate level of running, throwing, catching, and blocking are stressed. (UC, CSU)

PETHEORY042T - Beginning Coaching of Defensive Football - Units 1.5

This course is designed to teach the coaching and demonstration of defensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school

football. The fundamentals of the intermediate level of running, throwing, catching, and tackling are stressed. (UC, CSU)

PETHEORY042U - Intermediate Coaching of Defensive Football - Units 1.5

Prerequisites: PETHEORY-042T *Beginning Coaching of Defensive Football* with a grade of "C" or better.

This course is designed to teach the coaching and demonstration of intermediate defensive techniques. Activities are designed for those who will coach the lower levels through Pop Warner and high school football. The fundamentals of the intermediate level of running, throwing, catching, and tackling are stressed. (UC, CSU)

PETHEORY042V - Theory and Application of Weight Training - Units 3

Advisories: PEACTIV-014A with a grade of "C" or better.

This course is designed to introduce the student to new and traditional conditioning practices. The student learns how to set up, design, and implement a complete strength training and conditioning program for various populations. (UC, CSU)

PETHEORY042W - Theory of Offensive Softball - Units 2

The study of theory, philosophy, methods, and techniques relating to the coaching of offensive softball. Emphasis is placed on practice and event preparation; individual and team fundamentals; offensive techniques and strategies; motivation, training, and conditioning. (UC, CSU)

PETHEORY043 - Care and Prevention of Athletic Injuries - Units 3

This course is designed as an introduction to the field of athletic training. The history of the athletic training profession, the role of the athletic trainer as part of the sports medicine team, emergency management, risk management, injury assessment, and immediate care of athletic injuries will be introduced. (UC, CSU)

PETHEORY044A - Intro theory of Soccer - Units 2

The study of basic theory, philosophy, methods, and techniques relating to the coaching of soccer. Emphasis is placed on basic practice and event preparation; individual and team fundamentals; basic offensive and defensive techniques and strategies; motivation, training, and conditioning. (UC, CSU)

PETHEORY044B - Advanced Theory of Soccer - Units 2

Advisories: PETHEORY-044A with a grade of "C" or better.

The study of advanced theory, philosophy, methods, and techniques relating to the coaching of soccer. Emphasis is placed on technical and tactical functional training, phase of play, shadow play, coaching in the game, imprinting a style of play and professional event preparation; advanced offensive and defensive techniques and strategies; motivation, training, and conditioning. (UC, CSU)

PETHEORY048 - Physiology of Fitness and Sport Performance - Units 3

This course is designed to introduce the basic concepts of anatomy, physiology, nutrition, kinesiology, and exercise physiology to the student interested in how and why training programs affect health and fitness. This course is designed for the student majoring in physical education. (UC, CSU)

PETHEORY049 - Psychology of Fitness and Sport Performance - Units 3

Theoretical, practical and mental aspects of sport, exercise, and rehabilitation settings. The influence of psychological variables on participation in sport and exercise. The influence of participation on psychological factors and well-being. Topics include

motivation, anxiety, observational learning, imagery, exercise adherence, goal setting, and youth sport participation. (CSU)

PETHEORY050H - Special Studies: Physical Education - Units 1-2

Prerequisites: Students must have completed two or more PETHEORY courses with a grade of "C" or better.

Limitations on Enrollment: To qualify for 50H, a student must have completed a total of at least 12 units of transfer course work with an overall grade point average of at least 3.0. In addition, an independent study contract must be completed by the student, faculty member, and division dean. A written project proposal outlining the project guidelines, tasks, calendar, is required.

This course is designated for the student qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study. (CSU)

PETHEORY051 - Fitness Assessment - Units 3

This course is designed to aid the student in synthesizing the important principles and theories in exercise physiology, kinesiology, nutrition, testing, and measurements and applying them to physical fitness testing. (CSU, UC)

PETHEORY052 - Nutrition for Fitness and Sport Performance - Units 3

This course is designed to introduce the student to the fundamentals of nutrition as they impact health, fitness, and sports performance. Particular emphasis is given to basic nutrition, diet analysis, weight control, special diets, eating disorders, and the use of ergogenic aids. (UC, CSU)

PETHEORY069V - PE Theory Internship - Units 1-2

This course is a supervised internship in a physical education-related organization. The student assists in the operation of the organization and engages in specific research projects related to his/her position. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a work-site supervisor and a college internship instructor. Units are awarded on the basis of one unit per 60 hours of unpaid work or 75 hours of paid work. (CSU)

PETHEORY075 - Selected Topics: Physical Education Theory - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physical Education Theory not already covered by the existing curriculum.

Philosophy

PHILO 006 - Introduction to Philosophy - Units 3

Advisories: ENG-079 with a grade of "C" or better or Composition Level III.

This course introduces philosophical ideas and methods concerning knowledge, reality, and values. Expected topics will include the sources and limits of knowledge and the nature of reality. Other topics that may be examined from a philosophical perspective include the nature of the self, truth, ethics, religion, science, language, beauty and art, political theory, or mind. Competing positions in the fields of metaphysics, epistemology, ethics, and the history of philosophy are presented, discussed, and critically evaluated. (UC, CSU)

PHILO 015 - Selected Topics: Philosophy - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Philosophy not already covered by the existing curriculum. (CSU)

PHILO 030 - Introductory Logic - Units 3

Advisories: ENG-079 with a grade of "C" or better or Composition Level III.

This course introduces principles of valid reasoning with emphasis on deductive logic. The course includes a study of formal techniques of sentential logic. The course also includes a treatment of inductive reasoning, language, or fallacies. The concepts of induction, deduction, validity, soundness, strength, and cogency are explored in detail. There is a survey of informal fallacies as well as an introduction to the methodology associated with symbolic logic, natural deduction, and the calculation of probabilities. (UC, CSU, C-ID PHIL 110)

PHILO 040 - Ethics - Units 3

This course is a survey of ethical theories and contemporary ethical issues to which the various theories are applied. The theories introduced are ethical relativism, egoism, utilitarianism, Kantian deontology, natural law theory, and feminist ethical theory. Issues discussed are euthanasia, abortion, legal punishment, animal rights, equality and discrimination, and economic justice. (UC, CSU, C-ID PHIL 120)

PHILO 045 - Philosophy of Religion - Units 3

This course is a survey of issues and questions concerning the existence and nature of God, the validity of religious experience, the nature of relationships between persons and God, and the relationship between faith and reason. (UC, CSU)

PHILO 050 - Asian Philosophy - Units 3

This course is an introduction to the philosophical tradition of Asia. Special emphasis is placed on the Buddhist, Hindu, Taoist, and Confucian philosophies. (UC, CSU)

PHILO 050H - Special Studies: Philosophy - Units 1-2

Prerequisites: PHILO-006 Introduction to Philosophy or PHILO-030 Introductory Logic or PHILO-040 Ethics or PHILO-045 Philosophy of Religion or PHILO-050 Asian Philosophy each with a grade of "B" or better.

This course is designed to allow the student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

PHILO 075 - Selected Topics: Philosophy - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Philosophy not already covered by the existing curriculum.

Photography

PHOTO 001A - Introduction to Photography - Units 3

Prerequisite Skills: 1. Prerequisite Reading level II.

This course is an introduction to the processes, principles, and tools of photography. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography. (UC, CSU)

PHOTO 001B - Intermediate Photography - Units 3

Prerequisites: PHOTO-001A Introduction to Photography with a grade of "C" or better.

This course is an intermediate black & white film photography course with emphasis on film processing and darkroom printing. Assignments include camera exposure, black & white films and fiber based papers, contrast control, camera filters, medium format cameras, finishing techniques and history of photography. (UC, CSU)

PHOTO 003A - Introduction to Digital Photography - Units 3

Advisories: PHOTO-001A with a grade of "C" or better.

This introductory course focuses on the creative skills required to create effective digital photographs using digital cameras. Students will be introduced to color correction, retouching, and composition, as well as digital capture, scanning and printing techniques with a specific focus on digital photographic practice in fine art. (UC, CSU)

PHOTO 015 - Selected Topics: Photography - Units 0.5-4

This course is designed to offer instruction in one of the specialized areas of photography not already covered by existing curricula. (CSU)

PHOTO 034 - Workshop Projects - Units 2

Prerequisites: PHOTO-001B Intermediate Photography with a grade of "C" or better.

This course is an independent study in photography to meet individual student needs. (CSU)

PHOTO 050H - Special Studies: Photography - Units 1-2

Prerequisites: PHOTO-001B Intermediate Photography and PHOTO-003A Introduction to Digital Photography and PHOTO-034 Workshop Projects each with a grade of "C" or better.

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is open to the student who wishes to pursue a research problem through individual laboratory work and associated studies. The proposed project must be acceptable to a member of the photography staff and approved by the division chairperson. (CSU)

PHOTO 075 - Selected Topics: Photography - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Photography not already covered by the existing curriculum.

Physical Science

PHSCI 001 - Matter and Energy - Units 3

Prerequisites: MATH-080 Elementary Algebra with a grade of "C" or better or higher level Math or minimum of level 4 on the Math Placement Test.

This course is an introduction to the physical sciences for the student with a limited science background. Topics include astronomy, physics, chemistry, meteorology, and geology. (UC, CSU)

PHSCI 015 - Selected Topics: Physical Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physical Science not already covered by the existing curriculum. (CSU)

PHSCI 075 - Selected Topics: Physical Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physical Science not already covered by the existing curriculum.

Physics

PHYS 002A - General Physics - Units 4

Prerequisites: MATH-038B Precalculus II or MATH-039 Precalculus each with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

This course is intended for students not majoring in physics or engineering but needing a one-year course in physics as a requirement for their major program. The course is part of a two-semester sequence. Core topics include: kinematics, dynamics, work and energy, momentum, fluids, and simple harmonic motion. (UC, CSU, C-ID PHYS 105, C-ID PHYS 100S with both PHYC 2A and 2B)

PHYS 002B - General Physics - Units 4

Prerequisites: PHYS-002A General Physics with a grade of "C" or better.

This course is intended for students not majoring in physics or engineering but needing a one-year course in physics as a requirement for their major program. The course is part of a two-semester sequence. Core topics include mechanical waves and sound, electrostatics, magnetism, DC circuits, optics and modern physics. (UC, CSU, C-ID PHYS 110, C-ID PHYS 100S with both PHYS 2A and 2B)

PHYS 004A - Principles of Physics: Mechanics - Units 4

Prerequisites: MATH-002 Calculus II with a grade of "C" or better.

Prerequisite Skills: 1. Advisory: Reading Level II.

Corequisites: MATH-002 Calculus II.

This course, intended for students majoring in physical sciences and engineering, is part of a three-semester sequence. Core topics include an introduction to kinematics, dynamics, work and energy, momentum, gravitation, rotational motion, and simple harmonic motion. (UC, CSU, C-ID PHYS 205)

PHYS 004B - Principles of Physics: Waves, Sound, and Thermodynamics - Units 4

Prerequisites: MATH-002 Calculus II and PHYS-004A Principles of Physics: Mechanics each with a grade of "C" or better.

This course, intended for students majoring in physical sciences and engineering, is part of a three-semester sequence. Core topics include mechanical waves and sound, thermodynamics, optics, and modern physics. (UC, CSU, C-ID PHYS 215)

PHYS 004C - Principles of Physics: Electricity and Magnetism - Units 4

Prerequisites: PHYS-004A Principles of Physics: Mechanics and MATH-003 Multivariable Calculus each with a grade of "C" or better.

Corequisites: MATH-003 Multivariable Calculus.

This course, intended for students majoring in physical sciences and engineering, is part of a three-semester sequence. Core topics include electrostatics, magnetism, DC and AC circuits, and Maxwell's equations. (UC, CSU, C-ID PHYS 210)

PHYS 010 - Introduction to Physics - Units 4

Prerequisites: MATH-090 Beginning Algebra with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

This course is designed to introduce the fundamentals of physics to students with no previous background in the subject. The course content surveys selected topics in the areas of mechanics, heat, wave motion, optics, electricity, magnetism, and sound. Emphasis is on critical thinking in problem solving and practical application through laboratory work involving extensive instrumentation and measuring techniques. This course is not designed for the science or engineering major. (UC, CSU)

PHYS 015 - Selected Topics: Physics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physics not already covered by the existing curriculum. (CSU)

PHYS 075 - Selected Topics: Physics - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Physics not already covered by the existing curriculum.

Plant Science

PLANT 010 - Principles of Plant Science - Units 3

Prerequisite Skills: 1. Advisory: Reading Level II.

Introduction to plant science including structure, growth processes, propagation, physiology, growth media, biological competitors, and post-harvest factors of food, fiber, and ornamental plants. (UC, CSU, C-ID AG - PS 104)

PLANT 010L - Principles of Plant Science Laboratory - Units 1

Prerequisites: PLANT-010, Principles of Plant Science, with a grade of "C" or better.

Corequisites: PLANT-010, Principles of Plant Science.

This course is designed to use experiments and observations related to the principles of plant science. The student learns through numerous hands-on experiences. Field trips are taken to observe specific crop practices. (UC, CSU, C-ID AG - PS 106L)

PLANT 014 - Soil Science - Units 4

The study of soil physical, chemical and biological properties. Soil classification, derivation, use, function and management including erosion, moisture retention, structure, cultivation, organic matter and microbiology. Laboratory topics include soil type, classification, soil reaction, soil fertility and physical properties of soil. Laboratory required. (UC, CSU, C-ID AG - PS 128L)

PLANT 015 - Selected Topics: Plant Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Plant Science not already covered by the existing curriculum. (CSU)

PLANT 050H - Special Studies: Plant Science - Units 1-2

Corequisites: PLANT-010 Principles of Plant Science or Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is offered to any student who is qualified to do advanced work and wishes to pursue a problem through reading or other advanced study, if his proposed project is acceptable and approved by instructor and the division chairperson. Will vary with each individual project. (CSU)

PLANT 075 - Selected Topics: Plant Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of plant science not already covered by the existing curriculum.

Political Science

POLSC 001 - American Government and Institutions - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is an introduction to the fundamentals of government and the political processes at the national, state, and local levels. Included are studies of basic issues confronted by the American people and their governing institutions. The course fulfills the Social Science (Group A) requirements for the AA degree and applies toward completion of the requirement in U.S. History and California state and local government. (UC, CSU)

POLSC 002 - Introduction to Comparative Politics - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A and POLSC-001 each with a grade of "C" or better.

This course provides a comparative analysis of different kinds of political systems; their history, political institutions, processes and policies; the environments in which they occur and their consequences. Topics to be examined include: political power, political culture and socialization, participation in politics, governmental structures, democratization, and economic policies and development. (UC, CSU, C-ID POLS 130)

POLSC 003 - Introduction to Political Theory - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A and POLSC-001 each with a grade of "C" or better.

This course examines various theoretical approaches to politics as well as basic political problems and proposed solutions. Students will analyze selected theories, the relevance of theory to contemporary problems and different approaches to political thought. (UC, CSU, POLS 120)

POLSC 005 - International Relations - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A and POLSC-001 each with a grade of "C" or better.

This course is an introduction to the field of International Relations. The course surveys theoretical approaches to international relations, international conflict and cooperation, global issues, and the United States as a world power. (UC, CSU, POLS 140)

POLSC 006 - International Political Economy - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A, POLSC-001 and POLSC-002 each with a grade of "C" or better.

This course is designed to introduce students to the major theories, institutions and issues in international political economy. Students will examine the major theoretical perspectives on political economy, such as mercantilism, liberalism, and Marxism/structuralism. Other major components of the international economy will be covered including multilateral trade, domestic trade policy, international finance and currency policy. Last, this course focuses on several major issues in international political economy. Examples might include the gap between the developed and developing world, the globalized economy, the

role of transnational corporations, and the political economies of oil, migration, food, or the environment. (CSU, UC)

POLSC 015 - Selected Topics: Political Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This topics course is designed to offer instruction in one of the specialized areas of Political Science not already covered by the existing curriculum. (CSU)

POLSC 050H - Special Studies: Political Science - Units 1-2

Prerequisites: POLSC-001 American Government and Institutions with a grade of "B" or better.

Limitations on Enrollment: Instructor Permission.

This course is designed to allow the qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study.(CSU)

POLSC 051H - Government Internship - Units 3

Prerequisites: POLSC-001 American Government and Institutions or POLSC-002 Introduction to Comparative Politics or POLSC-003 Introduction to Political Theory or POLSC-005 International Relations each with a grade of "B" or better.

This course is a supervised internship in a federal, state or local government office, political campaign office, policy-related organization or law firm. The student assists in the operation of the office and engages in specific research projects related to his/her position. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a work-site supervisor and a college internship instructor.(CSU)

POLSC 075 - Selected Topics: Political Science - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Political Science not already covered by the existing curriculum.

Psychology

PSYCH 001 - Introduction to Psychology - Units 3

Prerequisite Skills: 1. Reading level II.

Psychology is the scientific study of behavior and mental processes. The content focuses on the exploration of major psychological theories and concepts, methods, and research findings in psychology. Topics include the biological bases of behavior, perception, cognition and consciousness, learning, memory, emotion, motivation, development, personality, social psychology, psychological disorders and therapeutic approaches, and applied psychology. (UC, CSU, C-ID PSY 110)

PSYCH 002 - Statistical Methods for Psychology & Social Science - Units 3

Prerequisites: MATH-092G, Intermediate Algebra, or MATH-092S, Intermediate Algebra (STEM), or MATH-082, Intermediate Algebra, each with a grade of "C" or better or minimum level of 5 on the Math Placement Test.

Advisories: PSYCH-001 with a grade of "C" or better.

This course is designed to acquaint the student with the concepts and techniques used in various statistical analyses. Emphasis is on descriptive and inferential statistics, probability, sampling distributions, hypothesis testing and statistical inference, with applications in psychology and social science. (UC, CSU, C-ID SOCI 125)

PSYCH 003 - Personal and Social Psychology - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a

grade of "C" or better.

This course is designed with an applied focus for students interested in how psychology is used in everyday life and is related to other social sciences. The course surveys different psychological perspectives and theoretical foundations and how these are applied across a person's life taking into account the influence of factors such as culture, gender, ethnicity, historical cohort, and socio-economic status. A broad understanding of how scientists, clinicians, and practitioners study and apply psychology is emphasized. (UC, CSU, C-ID PSY 115)

PSYCH 004 - Introduction to Research Methods in Psychology - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better; PSYCH-002 Statistical Methods For Psychology & Social Science or MATH-012 Introduction to Probability and Statistics each with a grade of "C" or better.

This course surveys various psychological research methods with an emphasis on research design, experimental procedures, descriptive methods, instrumentation, and the collection, analysis, interpretation, and reporting of research data. Research design and methodology will be examined through a review of research in a variety of the subdisciplines of psychology. (UC, CSU)

PSYCH 006 - Lifespan Psychology - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better.

This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems. (UC, CSU, C-ID PSY 180)

PSYCH 007 - Abnormal Psychology - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better.

This course is designed to provide the student with an understanding of abnormal behavior as delineated in the "Diagnostic and Statistical Manual of Mental Disorders." Topics include classifications, clinical pictures, causal factors, treatment, and outcomes of maladaptive patterns, assessment, therapy, and prevention. (UC, CSU, C-ID PSY 120)

PSYCH 008 - Drug and Alcohol: Community Overview, Awareness & Prevention Strategies - Units 3

Advisories: ENG-001A with a grade of "C" or better.

This course explores the core components of substance use disorder treatment including the history and development of treatment, treatment modalities, continuum of care, and treatment outcomes. Students apply the theory, skills and knowledge and attitudes associated with the competencies in the practice dimension and the 12 core functions of substance abuse disorder counseling. Provides the knowledge and tools required in cross-cultural counseling of chemically dependent clients. Students develop skills that incorporate cultural elements and address barriers to recovery. The student learns a variety of community-based prevention strategies and puts these strategies into practice. Issues related to public, social, and retail environments as well as the role media plays in our homes and communities are discussed. The student gains an understanding of what community initiatives are and what is required to put a variety of environmental prevention strategies to work. (CSU)

PSYCH 009 - Psychology: Issues of Diversity - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better.

Advisories: ENG-001A with a grade of "C" or better.

This course is the study of the values, problems, issues, concerns and counseling needs of special population groups in human services, mental health, substance abuse and other settings. Topics include understanding cultural influences in psychological development and other areas of psychology such as intelligence, motivation, personality, information processing, emotions, sexuality and disorders. The course includes exploration of stereotyping, interpersonal, and intrapersonal factors in the development of diverse groups. (CSU)

PSYCH 010 - Communicable Disease Awareness in Counseling - Units 2

Advisories: ENG-001A with a grade of "C" or better.

This course is a survey of communicable diseases for counseling professionals. Many clients have a high risk for infectious diseases. Topics include Hepatitis, HIV, AIDS, sexually transmitted disease, tuberculosis and other blood borne pathogens. The course will cover the history, transmission and prevention of these infectious diseases. Health issues including the Public Health Model of intervention will be discussed. Types of resources, testing, intervention and counseling techniques will be included along with referral information. The focus will be on clients in mental health, human services and drug and alcohol programs. (CSU)

PSYCH 011 - Assessment for Treatment Planning - Units 3

Advisories: Reading level III or PSYCH-001 ENG-079 or ENG-001A each with a grade of "C" or better.

This course covers the assessment process used in treating people with alcohol and drug abuse. The student learns how to administer and score the Addiction Severity Index (ASI), and other assessment instruments. Based on assessment information the student will learn how to effectively garner information on the impacts of alcohol and/or drug abuse in an individual's life. Treatment programs and planning will be discussed. Relapse and prevention programs will be explored. (CSU)

PSYCH 013 - Professional Ethics in Counseling - Units 3

Advisories: Reading level III or PSYCH-001 and ENG-079 or ENG-001A each with a grade of "C" or better.

This course is designed to teach students about professional ethics in the counseling field including but not limited to careers in drug and alcohol abuse, mental health, human service and schools. Topics will include boundaries, code of conduct, confidentiality including 42 CFR Part II, HIPAA (Health Insurance Portability Accountability Act, etc.), sexual harassment, American with Disabilities Act (ADA) and special populations including Gay, Lesbian, Bisexual and Transgender (GLBT), Prisoner, etc. (CSU)

PSYCH 015 - Selected Topics: Psychology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one of the specialized areas of psychology not already covered by the existing curricula. (CSU)

PSYCH 016 - Introduction to Counseling Skills - Units 3

This course is an introduction to the counseling process through examination of the roles and characteristics of the counselor and the client. Basic skills involved in problem identification and problem solving are discussed and practiced through simulated role situations. The student learns to use his/her relationship with clients to develop the alliance necessary for change via establishing rapport with clients, enlisting the client in the

development of treatment plans, and making appropriate client referrals. The student practices active listening and other communication skills in simulated client interview settings for special populations such as addiction. (CSU)

PSYCH 017 - Introduction to Counseling Theories (Individual, Group & Family) - Units 3

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better.

This course is designed to stress basic skills for effective one-on-one, group and family counseling in a variety of settings including human service programs, substance abuse programs, mental health and private agencies through discussion and simulated counseling situations. The course will cover a variety of theories including motivational interviewing, cognitive behavioral therapy, REBT, Reality therapy, and Family systems. A look at the continuum of care from prevention to continuing care (Cradle to Grave) will also be discussed.

PSYCH 030 - Human Sexuality - Units 3

Prerequisite Skills: 1. Reading level II.

This course is an introduction to human sexuality. It covers the biological, psychological, social, cultural, and historical aspects of human sexuality. Students would be engaged in discussions regarding social and psychological issues of fertility, pregnancy and childbirth, different methods of birth control, sexually transmitted diseases, sexual behavior, homosexuality and bisexuality and intercourse. Students would evaluate their own sexual behavior, and attitudes. This course is academic rather than therapeutic. (UC, CSU, C-ID PSY 130)

PSYCH 040 - Case Management and Treatment Planning - Units 3

This course is a review of basic skills for effective and efficient case work management, which includes the following: goal analysis; identification and specification of client objectives; case planning; client contracting; data collection and record keeping; and client progress, evaluation, and reporting. Skills are applied using actual client examples. Participants write case plans, client contracts and treatment goals, and demonstrate mastery of all other case work management skills. (CSU)

PSYCH 045A - Beginning Field Practicum - Units 2

Prerequisites: PSYCH-001 Introduction to Psychology and PSYCH-013 Professional Ethics in Counseling each with a grade of "C" or better.

This course is designed to provide an opportunity for the student to have guided experiences in one of the following settings: drug and alcohol, mental health, or human service agencies. The student observes professional staff working with clients in public agencies and engages in supervised field experience at a social service or related agency. Two hours in class is required each week to integrate practical experiences with theory learned in social science courses. A minimum of 80 hours of field experience in addition to class schedule is required to receive credit for the course. (CSU)

PSYCH 045B - Intermediate Field Practicum - Units 2

Prerequisites: PSYCH-045A Beginning Field Practicum with a grade of "C" or better.

This course is designed to provide an opportunity for the student to have advanced guided experiences in one of the following settings: drug and alcohol, mental health, or human service agencies. The student observes professional staff working with clients in public agencies and engages in supervised internship at a social service agency. Two hours in class is required each week which will focus on sharing, evaluation, and discussion of

students supervised field experiences and placement. Continued development of clinical skills, assessment, strategies and techniques and competence will be the focus. A minimum of 80 hours of practicum time is required in addition to the class schedule in order to receive credit. (CSU)

PSYCH 050H - Special Studies: Psychology - Units 1-2

Prerequisites: PSYCH-001 Introduction to Psychology with a grade of "C" or better.

This course is designed for the student qualified to do advanced work in the field. The course may include research, directed reading, field work, or other advanced study. (CSU)

PSYCH 052 - Introduction to Substance Abuse Counseling - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is an overview of the field of substance abuse counseling. Emphasis is placed on career challenges and opportunities. Evaluation, assessment, and counseling methods are discussed. Legal and community resources available to provide assistance are explored. (CSU)

PSYCH 053 - Drugs and Society - Units 3

This course is designed to give the student a basic pharmacology of the drugs of abuse as well as some effective skills to deal with the lifestyle of the abuser. The information provided aids the human services students in establishing a positive counseling relationship with drug dependent individuals and in giving those individuals life-skills. (CSU)

PSYCH 075 - Selected Topics: Psychology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Psychology not already covered by the existing curriculum.

Radio and Television

RTV 001 - Introduction to Broadcasting/Electronic Media - Units 3

This course introduces the history, structure, function, economics, content and evolution of radio, television, film, the Internet, and new media, including traditional and mature formats. The social, political, regulatory, ethical and occupational impact of the electronic media are also studied. (CSU)

RTV 005 - Selected Topics: Radio/Television - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of radio/television not already covered by the existing curriculum. (CSU)

RTV 011 - Fundamentals of Audio Production - Units 3

This course is designed to examine the theory and practice of audio techniques in radio, television, film, and multimedia, including acoustics, audio language and terms, signal flow, use of microphones, use of mixers and related production equipment, and the aesthetic aspects of sound mixing. Students will apply the learned materials to actual audio production. (CSU)

RTV 012 - Techniques of Audio Production - Units 3

Prerequisites: RTV-011 Fundamentals of Audio Production with a grade of "C" or better.

This course is designed to emphasize the use of digital audio workstations for audio, radio, and multimedia production and synchronization with the visual image. The course provides the

opportunity for specialized training in the use of audio post production techniques and the skills necessary to compete in the entertainment, communications, and multimedia industries. Students are introduced to techniques and equipment currently used in digital audio post production. (CSU)

RTV 013 - Audio Production Workshop - Units 4

Prerequisites: RTV-012 *Techniques of Audio Production with a grade of "C" or better.*

This course is designed to provide opportunity for the student's development in all aspects of audio production. The course includes development of operational activities, including live broadcasting, music, public service, and community service broadcasting. (CSU)

RTV 021 - Fundamentals of Video Production - Units 3

This course is designed to provide an introduction to the theory, terminology, technology, and operations within various video production environments. Includes instruction in directing, producing, editing, video camera operation, audio for video, lighting, switching, and graphics. Emphasis is placed on understanding and utilizing the three major phases of video production. (CSU)

RTV 022 - Techniques of Video Production - Units 3

Prerequisites: RTV-021 *Fundamentals of Video Production with a grade of "C" or better.*

This course is designed to provide intermediate video production skills intended for the student seeking employment in the television, editing, video production, and multimedia industries. Emphasis on theory and practice in video production including, planning, writing, producing, staging, and directing interviews, commercials, public service announcements, dramatic pieces, multimedia, and other program segments. Special emphasis will be placed on non-linear video editing techniques. (CSU)

RTV 023 - Video Production Workshop - Units 4

Prerequisites: RTV-022 *Techniques of Video Production with a grade of "C" or better.*

This course is designed to provide student development in all aspects of video production. The course includes development of operational activities as well as public service and community service broadcasting. (CSU)

RTV 031 - Media Performance - Units 3

This course is designed to provide instruction and practice in announcing, interpretation of copy, news casting, music continuity, the operation of audio and video equipment, and interviewing. Students gain practice with commercial material and ad lib announcing. (CSU)

RTV 050H - Special Studies: Radio/Television - Units 1-2

Prerequisites: RTV-001 *Introduction to Broadcasting with a grade of "B" or better.*

Limitations on Enrollment: Present a project proposal acceptable to the instructor and division dean.

This course is designed to allow a qualified student to do advanced work in the field of radio/television. The course includes research, directed reading, field work, or other advanced study. (CSU)

RTV 069V - Internship: Radio and Television - Units 1-8

Limitations on Enrollment: *Instructor Permission.*

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational internship in radio, television or multimedia. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college internship instructor. (CSU)

RTV 075 - Selected Topics: Radio and Television - Units 0.5-4

Prerequisite Skills: 1. *Determined by topic.*

This course is designed to enable the College to offer instruction in one of the specialized areas of Radio and Television not already covered by the existing curriculum.

RTV 098V - Work Experience: Radio and Television - Units 1-8

Limitations on Enrollment: *Work Experience: The student must enroll in a course in the discipline directly related to the work experience. The student must enroll in a minimum of 7 units including work experience units, during the semester. For summer session, the student must enroll in one related course in addition to work experience. The combined total number of units a student may take in work experience and occupational practice may not exceed a maximum of 16 units. Participation requires submission and approval of work experience program objectives and an employer work experience agreement.*

Advisories: GUID-030 and GUID-031 and GUID-032 and GUID-033 each with a grade of "C" or better.

This course is designed for the student participating in an occupational work experience in radio, television or multimedia. Application of discipline-related skills and knowledge of Secretaries Commission on Achieving Necessary Skills (SCANS) competencies is emphasized. Each student is engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and a college work experience instructor.

Radiologic Technology

RAD 010 - Introduction to Radiography - Units 3.5

Prerequisites: BIOL-031, *Human Anatomy*, and BIOL-032, *Human Physiology*, and H S-036, *Medical Terminology and Speech*, and ENG-001A, *Reading and Composition*, and MATH-092S, *Intermediate Algebra (STEM)*, or MATH-082, *Intermediate Algebra*, and PSYCH-001, *Introduction to Psychology*, and CS-011, *Fundamentals of Computer Science*, or CSA-020, *Computer Information Systems Applications*, each with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program. Finger printing & Criminal Record Clearance.

This course is designed to provide an overview of the field of Radiologic Technology. Emphasis is placed on methods of promoting optimal patient care and the importance of developing a professional and caring attitude. Ethics and professional organizations are covered. Factors required for X-ray production are discussed including detailed instruction of the beneficial and destructive potentials of ionizing radiation. Safe radiation protection procedures for self, patients, and hospital personnel are discussed. The course includes body mechanics, infection control, and fundamentals of venipuncture and medical computer systems. (CSU)

RAD 010A - Beginning Clinical Laboratory - Units 3

Corequisites: RAD-010, *Introduction to Radiography.*

Limitations on Enrollment: Admission to the Radiological Technology Program. Finger printing & Criminal Record Clearance.

This course is designed to provide an introduction to clinical radiographic training. The course includes practical training in the functions of the darkroom, office, computer systems, file rooms, and training involving patient transportation. An introduction to x-ray equipment and technical factor selection is included, as well as lab practice in venipuncture. (CSU)

RAD 010B - Intermediate Clinical Laboratory - Units 6

Prerequisites: RAD-010A, *Beginning Clinical Laboratory, with a grade of "C" or better.*

Limitations on Enrollment: Admission to the Radiological Technology Program due to contractual agreement with hospital.

This course is designed to provide clinical radiographic training. The course includes examinations of the chest, extremities, shoulder and pelvic girdles and abdomen all done under direct supervision. Technical factor selection and equipment manipulation are included. Portable and operating room radiography are also included in this course. (CSU)

RAD 011 - Radiographic Positioning and Terminology - Units 6

Prerequisites: RAD-010, *Introduction to Radiography, with a grade of "C" or better.*

Corequisites: RAD-012, *Radiographic Anatomy, and RAD-013, Principles of Radiographic Technique.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce positioning techniques, medical terminology, and anatomy as they relate to the chest, abdomen, extremities, shoulder and pelvic girdles, spinal column, and alimentary system. Portable and operating room procedures, proper equipment selection, immobilization, and radiation protection procedures are stressed. Identification of anatomical structures is supported through film critique sessions of radiographs. (CSU)

RAD 012 - Radiographic Anatomy - Units 2

Prerequisites: RAD-010, *Introduction to Radiography, with a grade of "C" or better.*

Corequisites: RAD-011, *Radiographic Positioning and Terminology, and RAD-013, Principles of Radiographic Technique.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce anatomical terminology; cell division; structure of skin, bones and joints; as well as structure of the extremities, vertebral column, and thorax. Radiographic imaging methods of these structures are presented, as well as common pathological conditions identified in radiography. (CSU)

RAD 013 - Principles of Radiographic Technique - Units 4

Prerequisites: RAD-010, *Introduction to Radiography, with a grade of "C" or better.*

Corequisites: RAD-011, *Radiographic Positioning and Terminology, and RAD-012, Radiographic Anatomy.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce the student to the principles involved in producing a diagnostic radiograph. The course includes detailed instruction in radiographic film, equipment, and

accessories utilized in image production. The primary factors of kilovoltage (KV), milliamperage (MA), time, and distance are explained. Practical application of exposure calculations is performed. Also included is: discussion of the sensitometric properties of x-ray film; quality control, patient characteristics; pathological conditions relative to technique selection; the principles and designs of radiographic technique charts; and fundamental principles of digital radiography and fluoroscopy. (CSU)

RAD 014 - Imaging Processing - Units 1

Prerequisites: RAD-013, *Principles of Radiographic Technique, with a grade of "C" or better.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to acquaint the student with: the principles associated with processing room design and function; film storage and handling, manual, automatic and digital processing chemicals and techniques; automatic processor systems and functions; latent image formation; identification and causes of film artifacts, and silver recovery/fixer recycling systems. To stay abreast of the transitions and current developments in the field of Medical Imaging, the course will progressively emphasize digital image processing and deemphasize film processing. Also included are quality control and repeat analysis. (CSU)

RAD 020 - Advanced Radiographic Positioning and Terminology - Units 4

Prerequisites: RAD-011, *Radiographic Positioning and Terminology, with a grade of "C" or better.*

Corequisites: RAD-020A, *Advanced Clinical Laboratory, and RAD-021, Advanced Radiographic Anatomy, and RAD-022, Fundamentals of X-Ray and Radium Physics.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce positioning techniques, medical terminology, related anatomy, and preparation for specialized procedures including radiography: the bony thorax, skull, facial bones, sinuses, mastoids, urinary and biliary systems, circulatory systems, female reproductive system, sialography, tomography, pediatric radiography, and arthrography. Proper equipment selection, immobilization, and radiation protection procedures are stressed. Proper demonstration and identification of required anatomical structures are supported through film critique sessions of radiographs. An introduction to Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) is included. (CSU)

RAD 020A - Advanced Clinical Laboratory - Units 8

Prerequisites: RAD-010B, *Intermediate Clinical Laboratory, with a grade of "C" or better.*

Corequisites: RAD-020, *Advanced Radiographic Positioning and Terminology, and RAD-021, Advanced Radiographic Anatomy, and RAD-022, Fundamentals of X-Ray and Radium Physics.*

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to emphasize positioning techniques and technical factor calculation. An introduction to positioning of the skull, facial bones, mastoids, and the thorax is included. The student participates in specialized radiographic procedures including myelography, sialography, hystorgraphy, arthrography, arteriography, and other specialized procedures requiring sterile and aseptic techniques. (CSU)

RAD 021 - Advanced Radiographic Anatomy - Units 2

Prerequisites: RAD-012, Radiographic Anatomy, with a grade of "C" or better and.

Corequisites: RAD-020, Advanced Radiographic Positioning and Terminology, and RAD-020A, Advanced Clinical Laboratory, and RAD-022, Fundamentals of X-Ray and Radium Physics.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce the student to complex systems of the body. The course includes the structures of the various parts of each specialized system. The systems involved are the muscular, circulatory, digestive, genitourinary, nervous, endocrine, and others. Radiographic application of these systems is presented as well as common anomalies and pathologies related to these systems as indicated by radiographic examination. Detailed study of the skull and facial bones is included. (CSU)

RAD 022 - Fundamentals of X-Ray and Radium Physics - Units 4

Corequisites: RAD-020, Advanced Radiographic Positioning and Terminology, and RAD-020A, Advanced Clinical Laboratory, and RAD-021, Advanced Radiographic Anatomy.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce the structure of the atom, concepts of mechanics, electromagnetic radiation, electromagnetism, electrodynamics, electrostatics, electric generators and motors. The production and control of high voltage rectifiers, and the components and principles of operation of the x-ray circuit are also included. Properties of x-rays, x-ray production, and x-ray interaction with matter are detailed. Performing calculations utilizing the English and metric systems are covered. (CSU)

RAD 023 - Positioning and Technical Laboratory - Units 0.5

Prerequisites: RAD-013, Principles of Radiographic Technique, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce the practical application of technical exposure calculations, accessory equipment, positioning techniques, and radiation protection procedures. (CSU)

RAD 030 - Intermediate Positioning and Technical Laboratory - Units 0.5

Prerequisites: RAD-023, Positioning and Technical Laboratory, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to explore the practical application of technical exposure calculations, accessory equipment, positioning techniques, and radiation protection at the intermediate level. The student learns how to identify and obtain radiographs of optimal quality. (CSU)

RAD 030A - Senior Clinical Laboratory - Units 5

Prerequisites: RAD-020A, Advanced Clinical Laboratory, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to provide clinical training in radiographic procedures under direct or general supervision. The course includes rotation through surgery magnetic resonance imaging (MRI), ultrasound, mammography, computed tomography (CT),

nuclear medicine, special procedures, radiation therapy, and general radiography. (CSU)

RAD 030B - Advanced Senior Clinical Laboratory - Units 10

Prerequisites: RAD-030A, Senior Clinical Laboratory, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to provide advanced clinical training in radiographic procedures. The student obtains experience in a surgical setting with axial tomography, ultrasound, mammography, computed tomography (CT), nuclear medicine, special procedures, radiation therapy, and general radiography. (CSU)

RAD 031 - Advanced Positioning and Technical Laboratory - Units 1

Prerequisites: RAD-030 Intermediate Positioning and Technical Laboratory with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to introduce the application of test tools used for quality control in routine radiography, fluoroscopy, and for determining radiation exposure doses. Emphasis is placed on the utilization of techniques which limit radiation dosage to the patient. (CSU)

RAD 032 - Sectional Anatomy - Units 2

Prerequisites: RAD-021 Advanced Radiographic Anatomy with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to provide student with an understanding of anatomy in three dimensions. Transverse, sagittal, and coronal sections of anatomy are discussed, along with dimensional relationships. Utilizing examination examples of magnetic resonance imaging (MRI), computed tomography (CT), and ultrasound, each region of the body is studied. The student gains an understanding of disease process and abnormal pathology as presented in three dimensions. (CSU)

RAD 040 - Senior Review, Adv. Radiation Protection, & Fluoroscopic Systems - Units 6

Prerequisites: RAD-010, Introduction to Radiography, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed for advanced student qualifying for graduation from a 24-month program. The course includes formal instruction in radiation protection, specifically California Code of Regulations Title 17, Public Health, and the standards of the National Council on Radiation protection (NCRP). In preparation for the state and national examinations, a comprehensive review of materials covered throughout the two-year period is included with additional information on imaging equipment and innovative technology. (CSU)

RAD 040A - Radiographic Laboratory - Units 9

Prerequisites: RAD-030B, Advanced Senior Clinical Laboratory, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to continue the practical training in radiographic procedures under general supervision with emphasis on perfecting all radiologic examination techniques. Further exposure to angiographic procedures and specialized fluoroscopic examinations is included as well as rotations through

computed tomography (CT), ultrasound, nuclear medicine, and magnetic resonance imaging (MRI). (CSU)

RAD 041 - Radiographic Pathology and Image Critique - Units 3

Prerequisites: RAD-032, Sectional Anatomy, with a grade of "C" or better.

Limitations on Enrollment: Admission to the Radiological Technology Program.

This course is designed to provide an overview of human pathologies. The student identifies changes that occur with disease and injury and their application to radiologic Technology. The student gains an understanding of these disease processes in order to handle seriously ill or injured patients by selecting positions and technical factors which produce quality diagnostic radiographs. (CSU)

Reading

READING 075 - Selected Topics: Reading - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Reading not already covered by the existing curriculum.

READING 091A - Contextualized Reading - Units 4.5

This course is designed to improve reading through intensive work in word attack, comprehension, vocabulary, and study skills with a focus on career exploration. Promotion to Reading 91B will be determined by the Reading department faculty after examination of a portfolio of the student's work in reading. Units earned in this course do not count toward the associate degree.

READING 091B - Contextualized Reading - Units 4.5

Advisories: READING-091A with a grade of "C" or better or Reading Level 1B.

This course is designed to improve reading comprehension while building background knowledge in academic and vocational subjects. The student learns to use comprehension techniques and becomes acquainted with the basic concepts and vocabulary needed for college and vocational courses. Promotion to Reading 91C will be determined by Reading department faculty after examination of a portfolio of the student's work in reading. Units earned in this course do not count toward the associate degree.

READING 091C - Contextualized Reading - Units 4.5

Advisories: READING-091B with a grade of "C" or better or Reading Level 1C.

This accelerated reading course is designed to improve reading comprehension while building background knowledge in academic and vocational subjects. The student learns to use comprehension techniques and becomes acquainted with the basic concepts and vocabulary needed for college and vocational courses. Promotion to Reading Level II will be determined by Reading department faculty after examination of a portfolio of the student's work in reading. Units earned in this course do not count toward the associate degree.

READING 093 - Reading and Writing for Careers - Units 5

Prerequisites: ENG 078A with a minimum grade of "C" or better.

This course is designed to be part of a career advancement academy. It develops the reading, writing, and personal skills required for success in the workplace. Units earned in this course do not count toward the associate degree.

READING 094 - Critical Reading for College - Units 3.5

Prerequisites: READING-091A Reading in Literature or

READING-091B Reading in Health Science or READING-091C Reading in Science each with a grade of "C" or better.

This course is designed to help students improve their critical reading skills in preparation for college-level courses. Particular emphasis is placed on preparing students to read and interpret expository text. Students will be introduced to multiple critical reading strategies through readings in academic essays and rhetorical prose. A Level II in reading as measured by the college assessment/placement test is a requirement. Promotion to Reading Level III will be determined by Reading department faculty after examination of a portfolio of the student's work.

READING 099A - Individualized Reading Skills I - Units 0.5-2

The Reading 99A lab provides individualized and/or small group instruction in basic reading and learning skills. Course material is customized to the assessed needs and abilities of each student. Successful completion of this course will be determined by successful completion of assignments, attendance, and various assessments. Units earned in this course do not count toward an associate degree.

READING 099B - Individualized Reading Skills II - Units 0.5-2

Prerequisites: READING-099A, Individualized Reading Skills I, minimum grade of "C" or better.

The Reading 99B lab course provides individualized and/or small group instruction in intermediate reading and learning skills. Course material is customized to the assessed needs and abilities of each student. Successful completion of this course will be determined by successful completion of assignments, attendance, and various assessments. Units earned in this course do not count toward an associate degree.

READING 099C - Individualized Reading Skills III - Units 0.5-2

Prerequisites: READING-099B, Individualized Reading Skills II, with a grade of "C" or better.

The Reading 99C lab provides individualized and/or small group instruction in advanced reading and learning skills. Course material is customized to the assessed needs and abilities of each student. Successful completion of this course will be determined by successful completion of work, attendance, and various assessments. Units earned in this course do not count toward an associate degree.

READING 099D - Individualized Reading Skills IV - Units 0.5-2

Prerequisites: READING-099C, Individualized Reading Skills III, with a grade of "C" or better.

The Reading 99D lab provides individualized and/or small group instruction in pre-college reading and learning skills. Course material is customized to the assessed needs and abilities of each student. Successful completion of this course will be determined by successful completion of assignments, attendance, and various assessments. Units earned in this course do not count toward an associate degree.

Religion

RELGN 014A - Great Religions of the Eastern World - Units 3

Prerequisite Skills: 1. Reading Level II.

This course is a survey of the historical development and essential beliefs of the major religions of the Eastern world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. Course work consists of readings, lectures, and discussions in Hinduism, Buddhism, Jainism, Confucianism, and Daoism. (UC, CSU)

RELGN 014B - Great Religions of the Western World - Units 3

Advisories: Reading Level II.

This course is a survey of the historical development and essential beliefs of the major religions of the Western world. Primary emphasis is on the major phases of development and comparative insights among the great religions of the world. Course work consists of readings, lectures, and discussions in the areas of ancient religious beliefs, Mesopotamian religions, Graeco-Roman religions, Teutonic religion, Zoroastrianism, Judaism, Christianity, and Islam. (UC, CSU)

RELGN 015 - Selected Topics: Religion - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Religion not already covered by the existing curriculum. (CSU)

RELGN 075 - Selected Topics: Religion - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Religion not already covered by the existing curriculum.

Sign Language

SL 001 - Elementary American Sign Language I - Units 4

Prerequisite Skills: 1. Reading Level II.

Advisories: SL-071.

This is a beginning course in a series of four in American Sign Language and Deaf Culture. Emphasis is placed on receptive and expressive skills respectively. (UC, CSU)

SL 002 - Elementary American Sign Language II - Units 4

Prerequisites: SL-001 Elementary American Sign Language with a grade of "C" or better.

Advisories: SL-072.

This is the second in a series of four courses in American Sign Language and Deaf Culture. Emphasis is placed on receptive and expressive skills respectively. (UC, CSU)

SL 003 - Intermediate American Sign Language I - Units 4

Prerequisites: SL-002 Elementary American Sign Language with a grade of "C" or better.

Advisories: SL-073.

This course is the third in a series of four courses in American Sign Language and Deaf Culture. Emphasis is on improving speed and fluency. (UC, CSU)

SL 004 - Intermediate American Sign Language II - Units 4

Prerequisites: SL-003 Intermediate American Sign Language with a grade of "C" or better.

Advisories: SL-074.

This course is the last in a series of four courses in American Sign Language and Deaf Culture. Emphasis is on improving speed and fluency.

SL 015 - Selected Topics: Sign Language - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Sign Language not already covered by the existing curriculum. (CSU)

SL 071 - Elementary American Sign Language Laboratory I - Units 0.5-1

Prerequisites: SL-001 Elementary American Sign Language with a grade of "C" or better.

Corequisites: SL-001 Elementary American Sign Language.

This first course is designed to reinforce and expand American Sign Language (ASL) skills in a laboratory setting. Emphasis is placed on fingerspelling, numbers, conversational regulators, basic American Sign Language vocabulary, and basic American Sign Language communication skills. This course may be taken for up to one (1) units.

SL 072 - Elementary American Sign Language Laboratory II - Units 0.5-1

Prerequisites: SL-071 Elementary American Sign Language Laboratory and SL-002 Elementary American Sign Language each with a grade of "C" or better.

Corequisites: SL-002 Elementary American Sign Language.

This second course is designed to reinforce and expand American Sign Language (ASL) skills. In a laboratory setting, emphasis is placed on fingerspelling, numbers, conversational regulators, beginning American Sign Language vocabulary, and beginning American Sign Language communication skills. This course may be taken for up to one (1) units.

SL 073 - Intermediate American Sign Language Laboratory I - Units 0.5-1

Prerequisites: SL-072 Elementary American Sign Language Laboratory and SL-003 Intermediate American Sign Language each with a grade of "C" or better.

Corequisites: SL-003 Intermediate American Sign Language.

This third course is designed to reinforce and expand American Sign Language (ASL) skills. In a laboratory setting, emphasis is placed on fingerspelling, numbers, conversational regulators, intermediate American Sign Language vocabulary, and specific American Sign Language grammatical structure at an intermediate level. This course may be taken for up to one (1) unit.

SL 074 - Intermediate American Sign Language Laboratory II - Units 0.5-1

Prerequisites: SL-073 Intermediate American Sign Language Laboratory and SL-004 Intermediate American Sign Language each with a grade of "C" or better.

Corequisites: SL-004 Intermediate American Sign Language.

This is the fourth course designed to reinforce and expand American Sign Language (ASL) skills. In a laboratory setting, emphasis is placed on fingerspelling, numbers, conversational regulators, intermediate American Sign Language vocabulary, and specific American Sign Language grammatical structure at an intermediate level. This course may be taken for up to one (1) unit.

SL 075 - Selected Topics: Sign Language - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Sign Language not already covered by the existing curriculum.

Sociology

SOCIO 001A - Introduction to Sociology - Units 3

Prerequisite Skills: Reading level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is designed to examine how social forces affect human behavior. The student classifies, discusses, and analyzes the major social forces such as socialization, culture, class

inequality and differences, ethnic and racial relations, sex and gender, sexual orientation, age and aging, disabilities, economic and political institutions, education, family, religion, deviance and social change. (UC, CSU)

SOCIO 001B - Problems of a Changing Society - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is designed to focus attention on the social problems which grow out of rapid social and cultural change. Topics may include family disorganization, poverty, crime, health care, racial discrimination, international tensions, and education. (UC, CSU)

SOCIO 005 - Sociology of the Family - Units 3

Advisories: ENG-079 with a grade of "C" or better.

This course is designed to address the sociology of family and the social processes of family organization. Topics in the course include the diverse forms of the family found worldwide, family connections to the economy, marriage and divorce trends, myths about the declining family and "family values," and the realities of families living in poverty. The course examines the social, economic, gendered, and racial experiences of families in the U.S. The main goal of the course is to develop a sociological understanding of family as a social institution. (CSU, UC)

SOCIO 015 - Selected Topics: Sociology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Sociology not already covered by the existing curriculum. (CSU)

SOCIO 020 - American Immigrant Experience - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better Successful completion of English 1A or higher is strongly advised.

This course is an introduction to the immigrant experience in the United States. The course provides a theoretical framework for the study of minority groups, examines the experiences of various racial and ethnic groups in the United States over time, and evaluates immigration policies. A historical overview of minority relations demonstrates the prevalence of ethnic diversity in the United States. (UC, CSU)

SOCIO 027 - Gender in Contemporary Society - Units 3

Advisories: ENG-001A with a grade of "C" or better.

This course is designed to examine changing sex roles in contemporary society, with a special emphasis on gender in the United States. The context of a historical and comparative analysis of men and women's varying roles, statuses, and life chances is explored. Social problems, such as domestic violence, economic and social discrimination, are also examined. This course also addresses the feminist movement, the men's movement and the conservative backlash to feminism. (UC, CSU)

SOCIO 033 - Social Inequality in the United States - Units 3

Prerequisite Skills: 1. Reading Level II.

Advisories: ENG-001A with a grade of "C" or better.

This course is designed to examine social inequality and stratification from a theoretical and comparative perspective, but with an emphasis on the United States. The student discusses and analyzes types of inequality, such as age and gender inequality, and types of stratification, including racial, ethnic, and class stratification. The experiences of many racial and ethnic groups are addressed, including African-Americans, Asian-Americans, Latinos, Native Americans, and Americans of European descent. (UC, CSU)

SOCIO 045A - Beginning Field Practicum - Units 2

Prerequisites: PSYCH-001 Introduction to Psychology and PSYCH-013 Professional Ethics in Counseling each with a grade of "C" or better.

This course is designed to provide an opportunity for the student to have guided experiences in one of the following settings: drug and alcohol, mental health, or human service agencies. The student observes professional staff working with clients in public agencies and engages in supervised field experience at a social service or related agency. Two hours in class is required each week to integrate practical experiences with theory learned in social science courses. A minimum of 80 hours of field experience in addition to class schedule is required to receive credit for the course. (CSU)

SOCIO 045B - Intermediate Field Practicum - Units 2

Prerequisites: SOCIO-045A Beginning Field Practicum with a grade of "C" or better.

This course is designed to provide an opportunity for the student to have advanced guided experiences in one of the following settings: drug and alcohol, mental health, or human service agencies. The student observes professional staff working with clients in public agencies and engages in supervised internship at a social service agency. Two hours in class is required each week which will focus on sharing, evaluation, and discussion of students supervised field experiences and placement. Continued development of clinical skills, assessment, strategies and techniques and competence will be the focus. A minimum of 80 hours of practicum time is required in addition to the class schedule in order to receive credit. (CSU)

SOCIO 050H - Special Studies: Sociology - Units 1-2

Prerequisites: SOCIO-001A Introduction to Sociology or SOCIO-001B Problems of a Changing Society each with a grade of "B" or better.

Limitations on Enrollment: Presentation of a written project proposal outlining the project guidelines, tasks, calendar, etc. that is acceptable to the instructor and the division dean.

This course is designed to allow the qualified student to do advanced work in the field. The course includes research, directed reading, field work, or other advanced study. (CSU)

SOCIO 075 - Selected Topics: Sociology - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Sociology not already covered by the existing curriculum.

Spanish

SPAN 001 - Elementary Spanish I - Units 5

Prerequisite Skills: 1. Reading level II.

Advisories: ENG-079 with a grade of "C" or better.

This course is an introduction to the Spanish language and Spanish cultures/area studies. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations). The students will interact with authentic language in a cultural context. (UC, CSU, C-ID Span 100)

SPAN 002 - Elementary Spanish II - Units 5

Prerequisites: SPAN-001 Elementary Spanish I with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: ENG-079 with a grade of "C" or better or.

This course continues to teach Spanish language acquisition in a cultural context. Emphasis is placed on communication skills (listening, speaking, reading and writing) and cultural understanding (behaviors, institutions, perspectives and artistic manifestations.) The student will continue to interact with authentic language in a cultural context. (UC, CSU, C-ID 110)

SPAN 003 - Intermediate Spanish I - Units 5

Prerequisites: SPAN-002 Elementary Spanish with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: ENG-079 with a grade of "C" or better.

This course teaches culture and facilitates language acquisition through listening, speaking, reading and writing. Students will continue to interact with authentic language in context. Content is expanded beyond "survival" needs of the immediate environment in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse is still developing and requires a somewhat sympathetic listener or reader. Students will demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course is taught in Spanish. (UC, CSU, C-ID SPAN 200)

SPAN 003A - Spanish for Spanish Speakers I - Units 5

Prerequisites: SPAN-002 Elementary Spanish II with a grade of "C" or better or two years of high school Spanish or equivalent.

Prerequisite Skills: 1. Reading level II.

Advisories: ENG-079 with a grade of "C" or better.

This course is designed for heritage speakers of Spanish or other linguistically qualified students. It provides instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of these students. The course will increase awareness of linguistic registers, discuss items beyond the familiar routine and develop an appreciation for Hispanic cultures as manifested in Spanish speaking countries and in the United States. This course is entirely conducted in Spanish. (UC, CSU)

SPAN 004 - Intermediate Spanish II - Units 5

Prerequisites: SPAN-003 Intermediate Spanish I with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: ENG-079 with a grade of "C" or better.

This course continues to expand upon culture and facilitate language acquisition through listening, speaking, reading and writing. Students will interact with more sophisticated authentic language in context. Content continues to expand in order to express more complex ideas in order to express personal meaning and to apply different strategies and techniques to go beyond casual conversation and express opinions, make suggestions on familiar topics, as well as some abstract issues and plans. Students demonstrate an increased awareness of cultural norms, values, and culturally relevant appropriate customs and events. Accuracy becomes quite high for high frequency structures and vocabulary but more complex discourse

is still developing and requires a somewhat sympathetic listener or reader. Students will continue to demonstrate the ability to think critically by analyzing linguistic structures and reflecting on and making cross-cultural comparisons. This course is taught in Spanish. (UC, CSU, C-ID 210)

SPAN 004A - Spanish for Spanish Speakers II - Units 5

Prerequisites: SPAN-003A Spanish for Spanish Speakers I with a grade of "C" or better.

Prerequisite Skills: 1. Advisory Reading Level II.

Advisories: ENG-079 with a grade of "C" or better English 79.

This course continues to provide instruction that builds upon the existing reading, writing, speaking and listening skills and the cultural heritage and knowledge of these students. The course will continue to increase awareness of linguistic registers, discuss items beyond the familiar routine and expand upon their appreciation for Hispanic cultures as manifested in Spanish speaking countries and in the United States. This course is entirely conducted in Spanish. (UC, CSU)

SPAN 005 - Advanced Spanish Introduction to Literature I - Units 5

Prerequisites: SPAN-004 Intermediate Spanish II or SPAN-004A Spanish for Spanish Speakers II each with a grade of "C" or better.

Prerequisite Skills: 1. Reading Level II.

Surveys culture and literature within the literary movements of Spain and Latin America at the third year level of the college curriculum. The course introduces the basic literary concepts and analysis of all literary genres. Lectures and discussions are conducted entirely in Spanish. (UC, CSU)

SPAN 006 - Advanced Spanish Introduction to Literature II - Units 5

Prerequisites: SPAN-005 Advanced Spanish Introduction to Literature with a grade of "C" or better.

Prerequisite Skills: 1. Reading level II.

Advisories: SPAN-005 with a grade of "C" or better.

This course is a continuation that surveys culture and literature within the literary movements of Spain and Latin America at the third year level of the college curriculum. The course expands on the literary concepts and analysis of all literary genres. Lectures and discussions are conducted entirely in Spanish. (UC, CSU)

SPAN 015 - Selected Topics: Spanish - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Spanish not already covered by the existing curriculum. (CSU)

SPAN 050H - Special Studies: Spanish - Units 1-2

Prerequisites: SPAN 004, Intermediate Spanish each with a grade of "B" or better.

Prerequisite Skills: Presentation of a project acceptable to the instructor and the division chairperson..

This course is designed to allow the student to do advanced work in the language. The course includes research, directed reading, field work, or other advanced study. (CSU)

SPAN 075 - Selected Topics: Spanish - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to offer instruction in one or more of the specialized areas of Spanish not covered by the existing curriculum. Units in this course do not count toward an associate degree.

Welding

WELDING 010 - Basic Welding for the Trades - Units 4

This course is designed to serve students who need basic welding skills. The course covers basic theory, practice and application of metal joining processes, metal cutting, and welding for ferrous and nonferrous metals and alloys. Welding methods include shielded metal arc welding (SMAW), oxy-acetylene (O/A), and an introduction to gas metal arc welding (GMAW) and gas tungsten arc welding (GTAW). (CSU)

WELDING 015 - Selected Topics: Welding - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Welding not already covered by the existing curriculum. (CSU)

WELDING 075 - Selected Topics: Welding - Units 0.5-4

Prerequisite Skills: 1. Determined by topic.

This course is designed to enable the College to offer instruction in one of the specialized areas of Welding not already covered by the existing curriculum.

WELDING 088A - Introductory Trade Welding - Units 7.5

Prerequisite Skills: 1. Math Level II.

This course is designed to introduce the theory and application of metal joining and cutting processes in ferrous and nonferrous metals. Shielded metal arc welding (SMAW) and oxy-acetylene (O/A) cutting, welding and brazing processes are included.

WELDING 088B - Beginning Trade Welding - Units 7.5

This course is designed to introduce the theory and application of metal joining process, metal cutting and arc welding processes, and joining for ferrous and nonferrous metals and alloys. Manipulative skills in shielded metal arc welding processes are stressed. Emphasis is placed on individual student goals in his/her related skill area.

WELDING 088C - Intermediate Trade Welding - Units 7.5

This course is designed to introduce the theory and application of metal joining and cutting processes in ferrous and non-ferrous metals. Manipulative skills in Gas Metal Arc Welding (MIG) are stressed.

WELDING 088D - Advanced Trade Welding - Units 7.5

This course is designed to introduce the theory and application of metal joining processes in ferrous and non-ferrous metals. Manipulative skills in Gas Tungsten Arc Welding (TIG) are stressed.

WELDING 089A - Shielded Metal Arc Welding/Stick (SMAW) - Units 2

Limitations on Enrollment: Qualified Performer.

Advisories: WELDING-010 or WELDING-088A or WELDING-088B or WELDING-088C or WELDING-088D each with a grade of "C" or better.

This course is designed to emphasize the application of Shielded Metal Arc Welding (SMAW). The course includes theory and practical application of welding in a variety of positions on ferrous materials.

WELDING 089B - Gas Metal Arc Welding (MIG) - Units 2

Limitations on Enrollment: Qualified Performer.

Advisories: WELDING-010 or WELDING-088A or WELDING-088B or WELDING-088C or WELDING-088D each with a grade of "C" or better.

This course is designed to emphasize the application of Gas Metal Arc Welding (MIG). The course includes theory and practical application of welding in a variety of positions on ferrous materials.

WELDING 089C - Gas Tungsten Arc Welding (GTAW) Welding - Units 2

Limitations on Enrollment: Qualified Performer.

Advisories: WELDING-010 or WELDING-088A or WELDING-088B or WELDING-088C or WELDING-088D each with a grade of "C" or better.

This course is designed to emphasize the application of Gas Tungsten Arc Welding (GTAW). The course includes theory and practical application of welding in a variety of positions on ferrous and non-ferrous materials.

APPENDICES

Distinguished Faculty

Victoria Armstrong, 1997-1998
 Leslie Asfour, 2010-2011
 Victoria Aubrey, 2011-2012
 Chris Barker, 1999-2000
 Ben Beam, 2011-2012
 Robert Bini, 2012-2013
 Joseph Bisson, 2010-2011
 Charles Bloch, 1995-1996
 Char Britto, 2000-2001
 John Britto, 2002-2003
 Dee Brown, 2006-2007
 Richard Bullard, 1994-1995
 Evelyn Chapman, 2011-2012
 Ginger Debow-Makino, 1992-1993
 Dean Danielson, 2001-2002
 Jane Dominik, 2015-2016
 John Elliott, 1990-1991
 Richard Ghio, 2004-2005
 June Gillam, 1998-1999
 Valerie Gnassounou-Bynoe, 2013-2014
 Arthur Godi, 2003-2004
 Joe Gonzales, 2005-2006
 Helm Haas, 1997-1998
 Margaret "Peggy" Hamilton, 2001-2002
 Bill Harper, 2006-2007
 Vivian Harper, 2006-2007
 Julius Hastings, 2000-2001
 Sam Hatch, 2009-2010
 Lynn Hawley, 2010-2011
 Jeffrey Hislop, 2007-2008
 Art Holton, 2008-2009
 Larry Huiras, 1994-1995
 Gina Johnson, 2008-2009
 Harvey Jordan, 2014-2015
 Brian Katz, 2002-2003
 Brian Kendrick, 2012-2013
 Christopher Kim, 2013-2014
 Robert Knudsen, 1996-1997
 Jennifer Kraemer, 2000-2001
 Jeffrey "Rocky" LaJeunesse, 2014-2015
 John Larson, 1998-1999
 Mary Little, 1995-1996
 Clarence Louie, 2009-2010
 Debra Louie, 2016-2017
 Madaline Lynch, 1998-1999
 Elizabeth Maloney, 2009-2010
 Vicki Marie, 2007-2008
 Joe Mariscal, 2014-2015
 Lloyd Martel, 1998-1999
 Del McComb, 1991-1992
 Jan Mullen, 2000-2001
 Al Muller, 1992-1993
 Judy Murray, 1998-1999

Nelson Nagai, 2009-2010
 Mary Neville, 2011-2012
 Ron Northup, 1998-1999
 Diane Oren, 2004-2005
 Al Ortiz, 2001-2002
 Ken Pakarek, 2002-2003
 Reed Peters, 2014-2015
 Stan Perkner, 1999-2000
 Joan Ray, 1994-1995
 Fred Reese, 1993-1994
 Charlie Robinson, 1998-1999
 Kirstyn Russell, 2016-2017
 Steven Schermerhorn, 2010-2011
 Jacquelyn Schwegel, 2007-2008
 Margaret "Peggy" Scully, 2003-2004
 Paula Sheil, 2012-2013
 Melvin B. Simmons, 2005-2006
 Max Simoncic, 2004-2005
 Constance Smith, 1996-1997
 Rachel Standish, 2016-2017
 Jack Stirton, 1991-1992
 Steve Stocking, 1999-2000
 Don Stott, 2002-2003
 Terry Strange, 1997-1998
 Alex Taddei, 2015-2016
 Janice Takahashi, 2002-2003
 Carol Thomas, 1995-1996
 Jeff Topping, 1999-2000
 Narcisa Ann C. Tuliao, 2005-2006
 Kay Turpin, 1994-1995
 Sally Van Bebbler, 2006-2007
 Jeanne Marie Velickovic, 2008-2009
 Martha Villarreal, 2005-2006
 Anna Villegas, 2013-2014
 John Walker, 1990-1991
 Roger Waller, 1994-1995
 Jun Wang, 2008-2009
 Christoffer Wardell, 2015-2016
 Lynn Welch, 2005-2006
 Matthew Wetstein, 2003-2004
 Ray Wuco, 1996-1997
 James Yanko, 2003-2004
 Norma Yeoman, 1993-1994

Faculty

Faculty A-D

Able, Bruce (2006)

Humanities, Social Science, Education, Kinesiology, and Athletics

A.A., College of the Redwoods

B.S., Union Institute and University

Adamson, Thomas (2002)

Agriculture, Science, and Mathematics

B.S., St. Mary's College

M.S., University of California, Davis

Ph.D., University of California, Davis

Agopsowicz, William J. (1989)

Languages, Library, and Learning Resources

B.A., Seattle University

M.S., Seattle University

Ph.D., Arizona State University

Alford, Sean (2013)

Applied Science, Business, and Technology

A.A., San Joaquin Delta College

B.A., University of California, Davis

Alonzo, Stella (2003)

Counseling and Special Services

A.A., San Joaquin Delta College

B.A., University of the Pacific

M.A., University of the Pacific

Ed.D., University of the Pacific

Amen, Jazmin (1990)

Counseling and Special Services

B.A., California State University, Sacramento

M.S., California State University, Sacramento

Amundsen, Allen (2014)

Arts and Communication

B.A., San Francisco State University

M.A., San Francisco State University

Anievas-Gamallo, Isabel C. (2001)

Languages, Library, and Learning Resources

B.S., University of Leon, Spain

M.S., University of Washington

Ph.D., University of Leon, Spain

Antinora, Sarah (2014)

Languages, Library, and Learning Resources

B.A., California State University, San Bernardino

M.A., California State University, San Bernardino

Ph.D., University of California, Riverside

Arroyo, Daryl (2013)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.S., Springfield College

M.S., California State University, Fullerton

Ph.D., University of Connecticut

Artesi, Julie (2016)

Languages, Library, and Learning Resources

B.A., California State University, Sacramento

M.A., California State University, Stanislaus

Asfour, Leslie H. (1992)

Arts and Communication

B.A., California State University, Sacramento

Assadi-Rad, Amir M. (1995)

Agriculture, Science, and Mathematics

B.A., Winona State University

M.S., Murray State University

Ph.D., University of Tennessee

Aubrey, Mary Victoria (1991)

Languages, Library, and Learning Resources

B.A., Marquette University

M.A., Ohio State University

Ayers, Sheli (2014)

Languages, Library, and Learning Resources

B.A., University of California, Santa Cruz

M.A., University of California, Santa Barbara

M.F.A., California Institute of the Arts

Bagnasco, Stacey Robles (1998)

Counseling and Special Services

A.A., San Joaquin Delta College

B.A., University of California, Berkeley

M.S., San Francisco State University

Ed.D., University of the Pacific

Baker, Daniel M. (2001)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., University of California, Davis

M.S., California State University, Sacramento

Barker, Christopher A. (1988)

Agriculture, Science, and Mathematics

B.A., Union College

M.A., University of Nebraska

Barlow, Gary T. (1999)

Humanities, Social Science, Education, Kinesiology, and Athletics

A.A., San Joaquin Delta College

B.A., University of the Pacific

M.A., Azusa Pacific University

Barrows, Jennifer A. (1999)

Arts and Communication

B.A., Canisius College

M.A., University of Illinois

Ph.D., University of Illinois

Bautch, Kevin (2009)

Arts and Communication

B.A., Luther College

M.F.A., Illinois State University

Beale, Kindra (2008)

Agriculture, Science, and Mathematics

B.S., University of California, Irvine

M.A., California State University, Sacramento

Becerra-Quintor, Lilia (1987)

Languages, Library, and Learning Resources
B.A., University of the Pacific
M.A., University of the Pacific

Bender, Jeffrey Scott (1997)

Agriculture, Science, and Mathematics
B.A., California State University, Fresno
M.A., California State University, Fresno

Berkner, Mark (2009)

Arts and Communication
A.A., Contra Costa College

Beutel, Joel (2010)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of California, Riverside
M.A., University of California, Riverside

Beyer, Angela (2009)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., Carthage College, Wisconsin
M.S., Concordia University, Wisconsin

Bhagi, Savita (2016)

Agriculture, Science, and Mathematics
B.A., Gauhati University, India
M.A., University of Delhi

Bini, Robert V. (1990)

Languages, Library, and Learning Resources
B.A., San Francisco State University
M.A., San Francisco State University

Birmingham, Daniel (2011)

Agriculture, Science, and Mathematics
B.S., Trinity College, Dublin, Ireland
Ph.D., Trinity College, Dublin, Ireland

Blanco, Roy (2015)

Health Sciences
M.S.N., California State University, Sacramento

Blank, Joel (2009)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., California State University, Fullerton
M.A., University of Virginia
Ph.D., University of California, Los Angeles
J.D., Loyola Law School

Bradford, Heather (2008)

Counseling and Special Services
B.S., Oakwood College
M.A., John F. Kennedy University

Brogger, Adriana (2016)

Arts and Communication
A.A., San Joaquin Delta College
B.A., California State University, Stanislaus
M.A., National University

Brown, Darin (2014)

Agriculture, Science, and Mathematics
B.S., California State University, Stanislaus
M.S., University of California, Santa Barbara
Ph.D., University of California, Santa Barbara

Brown, Nicole (2015)

Languages, Library, and Learning Resources
B.A., California State University, Stanislaus
M.A., California State University, Stanislaus

Broyles, Jason P. (2005)

Agriculture, Science, and Mathematics
B.S., University of California, Davis
M.S., California State University, Sacramento

Bruce, Kathleen (2012)

Arts and Communication
B.A., University of the Pacific
M.A., University of the Pacific

Buettner, Ludmila (2006)

Languages, Library, and Learning Resources
M.A., California State University, Stanislaus
Ed.D., University of the Pacific

Burnett, Todd C. (1993)

Agriculture, Science, and Mathematics
B.S., University of California, Davis
M.S., University of California, Davis

Bush, Nena M. (2016)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., California State University East Bay
M.A., Erikson Institute

Bykov, Nick A. (2000)

Agriculture, Science, and Mathematics
M.S., Kharkov University
Ph.D., Kharkov University

Calderon, Sergio (2009)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College

Camacho, Manuel (2003)

Languages, Library, and Learning Resources
B.A., California State University, Northridge
M.A., California State University, Northridge
M.S., Pepperdine University

Canela, Anthony (2001)

Counseling and Special Services
A.A., Butte College
B.A., California State University, Chico
M.S., California State University, Sacramento

Cardiel, Johnathan M. (2015)

Applied Science, Business, and Technology
B.A., Thomas Edison State College
M.A., St. Mary's University

Carlos, Gary S. (2007)

Arts and Communication
B.A., San Francisco State University

M.A., San Diego State University

Castro, Kim (2014)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.S., Union Institute and University

Chan, John (2012)

Languages, Library, and Learning Resources

B.A., University of California, Berkeley

M.L.I.S., University of Illinois

J.D., University of Iowa

Christofori, Ulrike G. (1996)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., University of Tübingen

M.A., University of California, Davis

Clanton, John (2016)

Languages, Library, and Learning Resources

B.A., California State University, Stanislaus

M.A., California State University, Stanislaus

Coleman, Suzanne (2011)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., California State University, Stanislaus

M.A., Pacific Oaks College

Cooper Wilkins, Lisa (2014)

Enrollment Services and Student Development

B.A., Goucher College

M.S., Villanova University

M.A., Marymount University

Ed.D., The George Washington University

Cruces, Shenny (2015)

Arts and Communication

B.A., Illinois State University

B.A., Sonoma State University

M.F.A., San Francisco State University

Cusledge-Staiano, Tara L. (2015)

Arts and Communication

B.A., University of the Pacific

M.A., University of California, Berkeley

Danielson, Dean L. (1990)

Applied Science, Business, and Technology

B.S., United States Military Academy, West Point

M.B.A., University of Utah

Day, Elizabeth (2007)

Agriculture, Science, and Mathematics

B.S., Seattle Pacific University

Ph.D., Indiana University

Deol, Raman (2015)

Arts and Communication

B.A., University of the Pacific

M.A., University of the Pacific

Ph.D., University of California, Merced

Demmons, Barbara C. (1976)

Agriculture, Science, and Mathematics

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B.S., California Polytechnic State University, San Luis Obispo

M.S., Indiana University

Desmangles, Roy (2015)

Counseling and Special Services

B.A., California State University, Sacramento

M.A., California State University, Sacramento

M.A., National University

Dettloff, Richard W. (1997)

Applied Science, Business, and Technology

B.V.E., California State University, Sacramento

Diaz, Guadalupe (2015)

Counseling and Special Services

B.A., University of California, Riverside

M.A., California Polytechnic State University, San Luis Obispo

Dodson, David L. (2000)

Agriculture, Science, and Mathematics

A.S., Ventura College

B.S., California Polytechnic State University, Pomona

M.S., California Polytechnic State University, San Luis Obispo

Dolan, Annlee (2008)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., Wilfrid Laurier University

M.A., Wilfrid Laurier University

Ph.D., University of Toronto

Dominik, Jane (1991)

Languages, Library, and Learning Resources

B.A., University of the Pacific

M.A., University of Chicago

M.F.A., Rutgers University

Ph.D., University of East Anglia

Donovan, Patricia A. (1989)

Agriculture, Science, and Mathematics

B.A., University of California, Davis

M.A., Columbia University

Dulin, Cassandra (2016)

Languages, Library, and Learning Resources

B.A., University of the Pacific

M.A., California State University, Stanislaus

Ed.D., University of the Pacific

Ph.D., University of Texas at El Paso

Durstun, Shelba D. (2003)

Health Sciences

A.D.N., San Joaquin Delta College

M.A., California Statewide Nursing Consortium

M.S.N., California State University, Dominguez Hills

Faculty E-I

Eigbrett, Bruce (2000)

Counseling and Special Services

A.A., Sacramento City College

B.A., University of California, Davis
 M.S., California State University, Sacramento
 J.D., University of the Pacific, McGeorge School of Law

Feneck, Diane (2014)

Counseling and Special Services
 A.A., San Joaquin Delta College
 B.S., California State University, Sacramento
 M.S., California State University, Sacramento

Fernandez, Daniel S. (2016)

Counseling and Special Services
 B.A., University of the Pacific
 M.A., California State University, Sacramento

Ferraiolo, William D. (1997)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., State University of New Jersey, Rutgers
 M.A., University of Oklahoma
 Ph.D., University of Oklahoma

Foro, Greg (2014)

Arts and Communication
 B.A., Fordham University
 M.F.A., University of Alabama

Franco, Virginia (2016)

Counseling and Special Services
 B.A., St. Mary's College of California
 M.A., San José State University

Frost, Gina (2002)

Agriculture, Science, and Mathematics
 B.S., Oregon State University
 Ph.D., University of California, Santa Cruz

Gaines, Randolph E. (1981)

Counseling and Special Services
 B.A., San José State University
 B.S., San José State University
 M.S., University of La Verne
 M.Ed., University of La Verne

Gamarnik, Alla (2005)

Agriculture, Science, and Mathematics
 B.S., San Francisco State University
 Ph.D., University of California, Los Angeles

Garner, Aaron (2007)

Arts and Communication
 B.S., Sonoma State University
 M.M., San Diego State University

Gautam, Anita (2015)

Counseling and Special Services
 A.A., San Joaquin Delta College
 B.A., University of California, Davis
 M.S., California State University, Sacramento

Gillam, June (1990)

Languages, Library, and Learning Resources
 B.A., California State University, Sacramento
 M.A., California State University, Sacramento
 Ph.D., California Institute of Integral Studies

Giron, Guillermo (2008)

Languages, Library, and Learning Resources
 B.A., California State University, Northridge
 M.A., University of California, San Diego

Gnassounou-Bynoe, Valerie (2008)

Arts and Communication
 Marketing Certificate, Lewiston College
 B.A., University of Paris XII
 M.A., University of Paris XII
 M.B.A., California State University, Sacramento

Gomez, Josefina (2014)

Languages, Library, and Learning Resources
 B.A., University of the Pacific
 M.S., San José State University
 J.D., University of California, Davis

Gottfried, Rosalind Beth (1996)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., Rutgers University
 M.A., Brandeis University
 Ph.D. Brandeis University

Graham, Steven (2008)

Arts and Communication
 B.A., California State University, Stanislaus
 M.A., California State University, Stanislaus
 Ed.D., California State University, Stanislaus

Grays, Raichelle T. (2015)

Counseling and Special Services
 A.A., San Joaquin Delta College
 B.A., California State University, Stanislaus
 M.S., California State University, Stanislaus

Guptill, Christopher (2016)

Arts and Communication
 B.A., University of California, Berkeley
 M.F.A., University of Wisconsin, Madison

Halabicky, Robert (2002)

Arts and Communication
 A.A., Grand Rapids Community College
 B.S., Michigan State University, East Lansing

Hammer, Patricia (2006)

Agriculture, Science, and Mathematics
 B.A., California State University, Chico
 M.A., California State University, Chico

Hanna, Shelley D. (2015)

Languages, Library, and Learning Resources
 A.A., San Joaquin Delta College
 M.A., California State University, Stanislaus
 M.A., California State University, Sacramento

Hannan, John Bradley (2015)

Applied Science, Business, and Technology
 A.A., Cuesta College
 B.A., California Polytechnic State University, San Luis Obispo

Hansen, Caitlynn E. (2015)

Health Sciences

B.S., California State University, Sacramento
M.S., University of Nevada, Reno

Harper, Vivian (1991)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., California State University, Hayward
M.S., California State University, Hayward
Ph.D., University of Southern California

Hart, Kathleen A. (1994)

Superintendent/President

B.A., Purdue University
M.A., Bowling Green State University
Ph.D., University of Michigan

Hawley, Lynn A. (1998)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., University of California, Santa Barbara
M.A., Boston University

Hepworth, Danell (2012)

Applied Science, Business, and Technology

B.S., University of the Pacific
M.S., National University

Hewette, Nena (1993)

Agriculture, Science, and Mathematics
B.A., University of California, San Diego
M.S., University of California, San Diego

Hinayon, Gernomino (2008)

Health Sciences

B.A., St. Jude College
M.S., University of the Philippines
M.S., University of Phoenix
DNP, University of San Francisco

Hislop, Jeffrey R. (1999)

Humanities, Social Science, Education, Kinesiology, and Athletics

A.A., San Joaquin Delta College
B.A., San José State University

Holden, Jennifer (2003)

Student Learning and Assessment

B.A., University of California, Riverside
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Howser, Bennett (2008)

Applied Science, Business, and Technology

B.S., Yale College
M.S., Yale Graduate School
Ph.D., Northwestern University

Huff, Kathleen (2013)

Applied Science, Business, and Technology

A.A., San Joaquin Delta College
B.A., California State University, Sacramento
M.A., Golden Gate University

Humphrey, Barbara (1995)

Agriculture, Science, and Mathematics

B.S., University of West Indies, Mona Campus
M.S., Southern Illinois University, Carbondale

Hutcheon, Philip (1990)

Languages, Library, and Learning Resources

B.A., University of the Pacific
Ph.D., Rice University

Itaya, Stephen K. (2005)

Agriculture, Science, and Mathematics

B.A., Washington University
Ph.D., University of Tennessee

Faculty J-O

Johnson, Gina C. (1996)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., California Polytechnic State University, San Luis Obispo
M.A., Saint Mary's College

Jordan, Lauryn (2016)

Humanities, Social Science, Education, Kinesiology, and Athletics

B.A., University of Oregon
M.A., St. Mary's College
M.E., Northern Arizona University

Kadi, Kelly (2014)

Languages, Library, and Learning Resources

B.A., University of California, Davis
M.A., University of California, Davis
M.A., Inter-American University of Puerto Rico

Kaur, Rajanpreet (2014)

Agriculture, Science, and Mathematics

B.S., California State University, Stanislaus
M.S., University of California, Riverside

Kay, Julie (2004)

Health Sciences

B.S., California Polytechnic State University, San Luis Obispo
B.S.N., California State University, Sacramento
M.S.N., University of California, San Francisco

Kendrick, Brian (2006)

Arts and Communication

B.A., Texas Tech University
M.A., Texas Tech University
M.S., Syracuse University

Kidwell, Susan (2009)

Health Sciences

B.A., California State University, Sacramento
M.S., University of the Pacific

Kim, Christopher (2002)

Agriculture, Science, and Mathematics

B.S., State University of New York, Fredonia
Ph.D., State University of New York, Buffalo

Kirschenman, Christopher (2015)

Agriculture, Science, and Mathematics

B.S., University of California, Berkeley
M.S., University of Illinois, Springfield

Knudsen, Robert (2008)

Agriculture, Science, and Mathematics
A.A., San Joaquin Delta College
B.A., University of California, Berkeley
M.A., California State University, Sacramento
Ph.D., Pacific Western University

Kobylanski, Andrzej (2014)

Applied Science, Business, and Technology
B.A., University of Agriculture and Technology, Poland
M.A., University of Agriculture and Technology, Poland
M.B.A., North Dakota State University
Ph.D., University of Warmia and Mazury

Kostyrko, Jacek (1996)

Agriculture, Science, and Mathematics
M.S., University of Alaska

Krupp, Jonathan (2008)

Applied Science, Business, and Technology
B.A., Humboldt State University
M.A., Humboldt State University
Ph.D., University of California, Davis

La Jeunesse, Jeffry (1996)

Counseling and Special Services
B.S., California State University, San Diego
M.S., California State University, Sacramento

Lagrutta, Annaliza (2016)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., San Francisco State University
M.A., National University

Laney, Solyn (2008)

Counseling and Special Services
B.A., Sonoma State University
M.A., Eastern Michigan University
Ed.D., California State University, Sacramento

Le, Khanh-Tuoc (2016)

Agriculture, Science, and Mathematics
B.S., University of Montreal
M.S., University of Montreal
Ph.D., McGill University

Leach, James B. (2005)

Counseling and Special Services
B.A., California State University, Sacramento
M.S., University of La Verne

LeBaron, Donna (2009)

Health Sciences
A.A., San Joaquin Delta College
B.A., California State University, Sacramento
M.A., University of California, Davis

Lee, Lincoln W. (1997)

Agriculture, Science, and Mathematics
B.S., University of the West Indies
M.S., University of Pittsburgh
Ph.D., University of Pittsburgh

Lindborg, Suzanne (2004)

Agriculture, Science, and Mathematics
B.S., University of California, Riverside
M.S., University of California, Riverside
Ph.D., University of California, Riverside

Louie, Debra P. (1998)

Counseling and Special Services
B.A., University of California, Santa Cruz
M.S., University of La Verne

Lucchesi, Lisa (2009)

Health Sciences
A.D.N., San Joaquin Delta College
B.A., California State University, Fresno
M.A., California State University, Dominguez Hills

Luna, Alberto (2006)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College

Lyons, Robin R. (1996)

Agriculture, Science, and Mathematics
B.A., University of British Columbia
M.S., Brigham Young University
Ph.D., University of Hawaii

Ma, Van (2015)

Agriculture, Science, and Mathematics
B.S., Nicholls State University
M.S., Louisiana State University

MacDonald, Eric S. (2015)

Languages, Library, and Learning Resources
B.A., San Diego State University
M.A., California State University, Sacramento

MacIsaac, Joseph (2010)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College

Macy, Lydia, (2014)

Counseling and Special Services
A.A., Los Medanos College
B.A., Sonoma State University
M.S., San Diego State University

Main, David (2010)

Humanities, Social Science, Education, Kinesiology, and Athletics
A.A., San Joaquin Delta College
B.A., St. Mary's College of California
M.A., Chapman University

Maloney, Elizabeth (2000)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., California State University, Stanislaus
M.A., University of the Pacific
Ed.D., University of the Pacific

Mariani, Lorenzo (2006)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College

Maroney, Michael (2008)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., University of the Pacific
 M.A., Texas A & M

Marshall, Melanie A. (2001)

Arts and Communication
 B.S., San Francisco Art Institute
 M.A., Savannah College of Art and Design

Marta, Michele (2008)

Languages, Library, and Learning Resources
 A.S., Feather River College
 B.S., Humboldt State University
 M.A., University of Alaska

Martin, Scot F. (2002)

Applied Science, Business, and Technology
 A.A., San Joaquin Delta College
 B.S., California State University, Fresno
 M.S., National University

Maumalanga, Master Anthony (2008)

Agriculture, Science, and Mathematics
 B.A., University of the South Pacific
 M.S., California State University, Hayward

McCarty, Steven S. (2016)

Applied Science, Business, and Technology
 A.A., Saddleback College
 B.A., University of California, Berkeley
 M.P.P.M., University of Southern California
 M.A.S., University of California, Irvine
 J.D., University of California, Berkeley

McKilligan, Kathleen (2015)

Languages, Library, and Learning Resources
 A.A., San Joaquin Delta College
 B.A., California State University, Stanislaus
 M.A., National University

McRae, Theresa L. (1997)

Agriculture, Science, and Mathematics
 B.A., Mills College
 B.A., University of California, Santa Cruz
 M.A., San Francisco State University
 Ph.D., Stanford University

Mersmann, Harry J. (1999)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., Reed College
 Ph.D., University of California, Irvine

Meza, Richard (2007)

Health Sciences
 A.A., San Joaquin Delta College
 B.S., California State University, Stanislaus
 M.S., Sonoma State University

Miller, Rebecca (2008)

Counseling and Special Services
 ESL Certificate, Northern Arizona University
 B.A., University of Arizona

M.A., University of Arizona

Millsop, Karen Jade Lee (1992)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., Brandeis University, Waltham
 M.A., New School for Social Research
 Ph.D., New School for Social Research

Moreno, Mario (1995)

Arts and Communication
 B.A., California State University, Chico
 M.A., California State University, Sacramento

Morrow, Jessica D. (2016)

Languages, Library, and Learning Resources
 B.A., San Francisco State University
 M.A., San Francisco State University

Muckenfuss, Pam (2005)

Counseling and Special Services
 B.A., California State University, Sacramento
 M.S., California State University, Sacramento

Murray, Douglas (2008)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., California State University, East Bay
 M.A., California State University, East Bay

Myers, Gabrielle (2015)

Languages, Library, and Learning Resources
 B.A., Hampshire College
 M.A., St. Mary's College
 M.A., University of California, Davis

Narita, Grant M. (2001)

Counseling and Special Services
 B.S., California State University, Hayward
 M.A., San Jose State University

Nathaniel, Sharmila P. (2002)

Counseling and Special Services
 A.A., San Joaquin Delta College
 B.A., California State University, Sacramento
 M.A., University of the Pacific

Neal, Melissa (2014)

Humanities, Social Science, Education, Kinesiology, and Athletics
 B.A., Coastal Carolina University
 M.S., Valdosta State University
 Ph.D., University of Nevada, Reno

Neville, Mary K. (2002)

Health Sciences
 A.A., San Joaquin Delta College
 A.B., Humboldt State University
 B.S.N., California State University, Stanislaus
 M.S.N., California State University, Sacramento

Noriega, Jennie L. (1997)

Applied Science, Business, and Technology
 B.S., San Jose State University
 M.A., University of Oklahoma

Nunes, Charlene (2000)

Library, Learning Resources and Language Arts
B.A., California State University, Hayward
M.A., California State University, Stanislaus

Ochoa-Sanchez, Laura (2008)

Agriculture, Science, and Mathematics
A.A., San Joaquin Delta College
B.A., University of the Pacific
M.S.W., Michigan State University

Olivo, Ysaura T. (2015)

Counseling and Special Services
A.A., San Joaquin Delta College
B.A., California State University, Sacramento
M.S., University of La Verne

Olwell, Kevin D. (1994)

Agriculture, Science, and Mathematics
B.S., University of California, Davis
M.A., University of California, Berkeley
Ph.D., University of California, San Diego

Ortega, Pablo (2007)

Counseling and Special Services
B.A., Saint Mary's College of California
M.A., San Jose State University

Faculty P-T**Pan, Pamela L. (1996)**

Languages, Library, and Learning Resources
B.S., Shanghai Jiao Tong University
M.A., Shanghai Jiao Tong University
M.A., University of Massachusetts
Ph.D., University of California, Davis

Perez, Lisa B. (1998)

Agriculture, Science, and Mathematics
A.A., San Joaquin Delta College
B.S., California Polytechnic State University, San Luis Obispo

Peters, Reed (2007)

Humanities, Social Science, Education, Kinesiology, and Athletics
A.L. and B.S., University of Nevada, Las Vegas
M.S., U.S. Sports Academy, Daphne

Petersen, Terry (2006)

Arts and Communication
B.A., California State University, Long Beach
M.A., California State University, Long Beach

Pieretti, Allison (2015)

Health Sciences
B.S., University of California, Los Angeles
M.S., University of San Francisco

Plaza, Rebecca (2014)

Counseling and Special Services
A.A., Modesto Junior College
B.A., University of California
M.A., Grand Canyon University
M.A., University of LaVerne

Pressnell, Jeffery (2016)

Languages, Library, and Learning Resources
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Ramirez, Pedro (1991)

Languages, Library, and Learning Resources
B.A., San Francisco State University
M.A., San Francisco State University

Reedy, Philip E. (1997)

Agriculture, Science, and Mathematics
B.S., University of Nebraska
Ph.D., University of California, Davis

Rennicks, Robert (2008)

Languages, Library, and Learning Resources
B.A., Dartmouth College
M.A., University of California, Berkeley

Ressa, Richard (2009)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of Pacific
M.A., Saint Mary's College of California

Ricardez, Alicia (1994)

Agriculture, Science, and Mathematics
B.S., Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey N.L., Mexico
Ph.D., University of the Pacific

Riley-Weigel, Lori (2016)

Health Sciences
B.S., Clarkson College
M.S.N., University of California, San Francisco

Robertson, Delecia J. (2009)

Counseling and Special Services
A.S., Solano College
B.S., University of Phoenix
M.B.A., University of Phoenix

Rocha, Peggy (1990)

Languages, Library, and Learning Resources
B.A., University of Illinois
M.A., University of Illinois

Russell, Kirstyn (2008)

Arts and Communication
B.A., New York University
M.A., California College of the Arts

Sala, Alina A. (2016)

Counseling and Special Services
B.A., California State University, Sacramento
M.A., California State University, Sacramento
Ed.D., California State University, Sacramento

Sandoval, Nicole (2015)

Arts and Communication
A.A., Chabot College
B.A., San Francisco State University
M.A., San Francisco State University

Santee, Ruth (2009)

Arts and Communication
B.A., College of Santa Fe
M.A., San Francisco Art Institute

Saunders, John C. (1997)

Student Learning and Assessment
B.A., California State University, Chico
M.A., California State University, Chico

Schermerhorn, Steven M. (1997)

Languages, Library, and Learning Resources
B.A., California State University, Northridge
M.L.S., University of California, Los Angeles

Schwegel, Jacquelynn M. (2000)

Agriculture, Science, and Mathematics
B.S., University of Puget Sound
M.S., Washington State University

Scott-Taylor, Danita (2010)

Counseling and Special Services
B.A., University of Cincinnati
M.A., College of Notre Dame

Scully-Linder, Margaret (1992)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of California, Berkeley
M.A., University of California, Berkeley
Ph.D., University of California, Berkeley

Sedighi, Kamran (2014)

Applied Science, Business, and Technology
B.A., Isfahan University of Technology
M.S., University of Tulsa

Seekatz, Sarah (2017)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of California, Irvine
M.A., University of California, Riverside
Ph.D., University of California, Riverside

Sewnath, Ramon (2006)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., Catholic University of Nijmegen, Netherlands
M.A., Catholic University of Nijmegen, Netherlands
Ph.D., University of Hawaii at Manoa

Sheil, Paula (2006)

Languages, Library, and Learning Resources
B.A., University of the Pacific
M.A., New College of California

Shek, Kitty W. (1990)

Languages, Library, and Learning Resources
B.A., International Christian University, Tokyo, Japan
M.L.S., University of California, Berkeley

Singh, Gurmukh (2016)

Agriculture, Science, and Mathematics
B.S., Guru Nanak University, Punjab

M.S., Visveswaraiah Technological University, Karnataka
M.S., California State University, East Bay

Slakey, Mark D. (1989)

Languages, Library, and Learning Resources
B.A., California State University, Sacramento
M.A., California State University, Sacramento
Ph.D., University of Wales, Bangor

Sorenson, Adrienne (2014)

Humanities, Social Science, Education, Kinesiology, and Athletics
A.A., Sierra College
B.A., California State University, Stanislaus
M.A., California State University, Bakersfield

Southard, Bruce (2014)

Arts and Communication
B.M., University of the Pacific
M.M., Western Kentucky University
D.M.A., North Dakota State University

Standish, Rachel (2007)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of Oregon
M.A., University of Oregon
Ph.D., University of Southern California

Stewart, Alicia (2002)

Applied Science, Business, and Technology
B.S., University of the Pacific
M.B.A., California State University, Stanislaus

Stoddart, Lisa (2015)

Health Sciences
A.A., San Joaquin Delta College
B.S., California State University, Stanislaus
M.S., University of Phoenix

Suy, Shaun E. (2016)

Counseling and Special Services
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Swanson, Wesley Alan (2000)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of California, Santa Cruz
M.A., University of California, Los Angeles
Ph.D., University of California, Los Angeles

Taddei, Alex (2008)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College
Certified Welder and Educator, University of the Pacific

Takahashi, Janice C. (1987)

Counseling and Special Services
B.M., University of the Pacific
M.A., University of San Francisco

Temple, Ashlee (2015)

Arts and Communication

B.F.A., New York University
M.F.A., Yale School of Drama

Telleen, Steven (2008)

Agriculture, Science, and Mathematics
B.A., University of Colorado
M.A., University of Colorado
Ph.D., University of Colorado

Terpstra, Jennifer D. (2016)

Agriculture, Science, and Mathematics
B.S., California State University, Chico
M.S., Chapman University

Terry, David A. (2005)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., Ohio University
M.A., Ohio University

Thomas, David N. (2012)

Applied Science, Business, and Technology
A.A., Butte College
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Thomas, Margaret O. (1985)

Agriculture, Science, and Mathematics
B.A., University of the Pacific
M.A., University of the Pacific

Toney, Jeff (2014)

Arts and Communication
B.A., University of the Pacific
M.A., University of the Pacific

Torres, Eduardo (2008)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.S., St. Mary's College of California
M.A., San Francisco State University

Tripp, Rebecca (2000)

Agriculture, Science, and Mathematics
B.A., California State University, Sacramento
M.A., California State University, Sacramento

Faculty U-Z

Ustach, Paul C. (2004)

Agriculture, Science, and Mathematics
B.S., University of California, Davis
M.S., University of Texas, Arlington
Ph.D., Utah State University

Vance, Carole M. (2015)

Health Sciences
A.A., San Joaquin Delta College
B.A., California University, Stanislaus
M.A., National University

Vang, Bee (2014)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College

Vargas, Salvador (2001)

Career Technical Education and Workforce Development
A.S., San Joaquin Delta College
B.S., California State University, Stanislaus
M.S., National University

Villalovoz, Frank R. (1987)

Applied Science, Business, and Technology
B.A., California State University, Chico

Villarreal, Martha (1990)

Distance and Regional Education
B.A., Loyola Marymount University
J.D., University of California, Los Angeles

Villavicencio, Cirian (2012)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., University of California, Davis
M.P.A., University of Southern California

Wade, Evan (2013)

Humanities, Social Science, Education, Kinesiology, and Athletics
B.A., Morehouse College
M.A., University of Connecticut

Wall, Patrick Joseph (2008)

Languages, Library, and Learning Resources
B.S., University of California, Davis
M.A., California Polytechnic State University, San Luis Obispo
Ph.D., University of Nevada

Wamhoff, Meryl J. (2007)

Arts and Communication
A.A., Chaffey College
B.A., California State University, Fresno
M.A., California State University, Fresno

Wang, Jun (1994)

Languages, Library, and Learning Resources
B.A., Heilongjiang University
M.A., Northern Illinois University
Ed.D., Northern Illinois University

Wardell, Christoffer E. (2009)

Applied Science, Business, and Technology
A.A., San Joaquin Delta College
B.A., California State University, Fullerton

Wells, Cheryl (2007)

Health Sciences
A.A., San Joaquin Delta College
B.S., California State University, Dominguez Hills
M.S., California State University, Dominguez Hills

Weppler-Selear, Mary (2015)

Languages, Library, and Learning Resources
B.A., California State University, Sacramento
M.A., California State University, Sacramento
M.A., University of Arizona

Wetstein, Matthew E. (1996)

Instructional Services

B.A., College of St. Francis
M.A., Northern Illinois University
Ph.D., Northern Illinois University

William, Lisa (2007)

Languages, Library, and Learning Resources
B.A., University of California, Davis
M.A., University of San Francisco
Ph.D., University of California, Davis

Williams, Christopher (2006)

Agriculture, Science, and Mathematics
B.S., University of California, Davis
M.A., California State University, Sacramento

Williams, Marcelle P. (1989)

Humanities, Social Science, Education, Kinesiology, and
Athletics
B.A., University of California, Berkeley
M.A., University of California, Berkeley

Wollak, Amber (2014)

FREQUENTLY CALLED NUMBERS

Dial 954-5151 plus 4 digit extension.

Extensions beginning with 5 may be dialed directly from off campus by calling 954- plus extension

EMERGENCY NUMBERS:

5000.....Police 5077.....First Aid

5350	Academic Computer Lab	Danner 202
5486	Academic Senate	Locke 109
5151	Admissions	DeRicco 132
5354	Agriculture, Science, and Mathematics Division	SCMA 338
5230	Applied Science, Business, and Technology Division	Holt 140
5209	Arts and Communication Division	Holt 242
6112	Assessment Center	DeRicco 110
5484	Associated Students of Delta College (ASDC)	Shima 101G
*5085	Bookstore	Danner Hall
5110	Box Office/Theatre Tickets	Locke 104
6209	CalWORKs	DeRicco 210
*5000	Campus Police	Phelps Bldg.
6219/	Career Center	DeRicco 219
6338		
5084	Cashier's Office	Admin 102A
5700	Child Development Center	CDC
5224	Classified Senate	Budd 330
5115	College Work Study	DeRicco 131
5127	Copy Center	Budd 102
*6276	Counseling and Special Services	DeRicco 234
5040	Dean of Student Learning and Assessment	Admin 102
5110	Delta Center for the Arts	Holt 242
6272	Disability Support Programs and Services	DeRicco 234
5246	Electron Microscopy Lab	CMAS 100
6149	Electronic Enrollment Services Lab	DeRicco 149
5835	Environmental Health and Safety	Central Plant
6295	EOPS	DeRicco 234
5352	ESL Lab	Holt 201
6178/	Evaluations Office	DeRicco 132
6187/		
6174		
5427	Facilities Rental	Holt 242
5115	Financial Aid	DeRicco 131
5077	First Aid/Health Unit	Danner Hall 101
5080	Food Services	Danner Hall
5836	Foster and Kinship Care Education	Budd 205
5016	Health Benefits (Employees)	Admin 202
5507	Horton Gallery	Shima 144
5056	Human Resources	Admin 202
5262	Humanities, Social Science, Education, Kinesiology, and Athletics Division	Budd 319
5038	Institutional Research and Effectiveness	SCMA 148
5036	Instructional Services	Admin 102
6126	International Student Program	DeRicco 132
5015	Kids College	Locke 107
5252	Languages, Library, and	Goleman 101

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	Learning Resources Division	
5139	Library	Goleman
5143	Library Circulation Desk	Goleman
5145	Library Reference Desk	Goleman
5000	Lost and Found	Phelps Bldg.
5017	Mail Room	Admin 108
5063	Maintenance and Operations	Lower Danner
5382	Marketing, Communications, and Outreach	Admin 110
5542	Math/Science Learning Center	SCMA 162
5318	MESA	SCMA 163
5790	Middle College High School	Holt 208
5078	Mobility/Health Unit	Danner Hall 101
5000	Police	Phelps Bldg.
5258	Police Academy	Holt 134/140
5866	Professional Development Center	Holt 121
5297	Reading Lab	Holt 201
5151	Records (Student)	DeRicco 132
5151	Registration	DeRicco 132
5059	Risk Management	Admin 202
5059	Sexual Harassment Information	Admin 202
5072	Shipping and Receiving	Lower Danner
943- 5089	Small Business Development Center	56 S. Lincoln St. Stockton, CA 95203
833- 7900	South Campus at Mountain House	2073 South Central Parkway Mountain House, CA 95391
5100	Student Activities	Shima 101
5632	Student Services	Admin 107
5018	Superintendent/President	Admin 103
5156	The Collegian Student Newspaper	Shima 204
6199	Transcripts	DeRicco 132
6219/ 6338	Transfer Center	DeRicco 219
6151	Veteran's Resource Center	DeRicco 141
5230	Work Experience/Internship	Holt 140
5045	Workforce Training Institute	Locke 107
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* V/TDD

(Voice and Teletype for the Deaf)

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