

## Section II - Instructional Programs - Table of Contents

### Part I - General Information

Definition of Terms .....	21
Ausencia de Discriminación .....	23
Apprenticeship .....	23
2+2 Articulated Courses .....	24
List Of Articulated Courses .....	24
Cooperative Work .....	26
Experience Education .....	26
Developmental Education .....	26
Internship Program .....	26
Learning Disabilities Program .....	27
Notice On Validation Of Skills Requisites .....	27
Non-Discrimination .....	27
Prerequisites, Corequisites, Limitations on Enrollment* .....	28
Reading, English Composition Requirements .....	29
Special Education Program .....	29

### Part II - General Education Requirements, Associate Degrees, Transfer Majors

#### **General Information**

Transfer Major Requirements .....	30
California State University (CSU) .....	30
Message For Students Planning to Transfer To The California State University System At Junior Standing .....	30
Independent Colleges and Universities .....	31
Intersegmental Education Transfer Curriculum (IGETC) .....	31
California State University and College - General Education Pattern .....	33
Intersegmental Education Transfer Curriculum (IGETC) - General Education Pattern	34
Associate in Arts Degree - General Education Pattern .....	35

#### **Associate in Arts Degree**

Majors Requirement .....	35
General Education Requirements .....	35
Unit Requirement .....	35
Competency Requirement .....	35
Residence Requirement .....	35

#### **Associate in Arts Degree - Major Areas of Concentration**

AGRICULTURE (TOP 01) .....	35
BIOLOGICAL SCIENCES (TOP 04) .....	35
BUSINESS and MANAGEMENT (TOP 05) .....	35
COMMUNICATIONS (TOP 06) .....	35
COMPUTER and INFORMATION SCIENCE (TOP 07) .....	35
EDUCATION (TOP 08) .....	35
ENGINEERING and RELATED INDUSTRIAL TECHNOLOGIES (TOP 09) .....	36
FINE and APPLIED ARTS (TOP 10) .....	36
FOREIGN LANGUAGES (TOP 11) .....	36
HEALTH PROFESSIONS (TOP 12) .....	36
CONSUMER EDUCATION AND HOME ECONOMICS (TOP 13) .....	37

HUMANITIES (Letters) (TOP 15) ..... 37  
 MATHEMATICS (TOP 17) ..... 37  
 PHYSICAL SCIENCES (TOP 19) ..... 37  
 PSYCHOLOGY (TOP 20) ..... 37  
 PUBLIC AFFAIRS and SERVICES (TOP 21) ..... 37  
 SOCIAL SCIENCES (TOP 22) ..... 37  
 INTERDISCIPLINARY STUDIES (TOP 49) ..... 37

**Associate in Science Degree**

Majors Requirement ..... 38  
 General Education Requirements ..... 38  
 Unit Requirement ..... 38  
 Competency Requirement ..... 38  
 Residence Requirement ..... 38

**Associate in Science Degrees - 1998-1999**

Major in Architectural Drafting ..... 39  
 Major in Civil Engineering Technology ..... 39  
 Major in Construction Technology ..... 40  
 Major in Correctional Science ..... 40  
 Major in Culinary Arts ..... 41  
 Major in Electronics/Electrical Engineering Technology ..... 41  
 Major in Law Enforcement ..... 42  
 Major in Mechanical Engineering Technology ..... 42  
 Major in NURSING Associate Degree Nursing (ADN) ..... 43

## Definition of Terms

**AA General Education Requirement:** Courses which satisfy general education requirements for the associate degree.

**Academic Renewal**—A process to have previous substandard college work (grades and credits) excluded from computation of the cumulative grade point average.

**Academic Year**—Fall and Spring semesters.

**Add**—Officially enrolling in a course.

**Advisory On Recommended Preparation**—A condition of enrollment that is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

**Assessment/Placement Tests**—Tests given prior to registration for classes. The results are used to help students select appropriate classes.

**Associate Degree (A.A. or A.S.)**—A degree (Associate in Arts or Associate in Science) granted by a community college which recognizes a student's satisfactory completion of an organized program of at least 60 semester units including the major and general education requirements.

**Baccalaureate Courses**—Courses whose department number is 69 or below, e.g. English 1A; Math 36; Biology 11.

**Bachelor's Degree (B.A., A.B., or B.S.)** A baccalaureate degree granted by a four-year college or university which recognizes a student's satisfactory completion of an organized program of study consisting of at least 120 semester units.

**Bailment**—To hold in trust for another for a special purpose and for a limited period of time. In terms of parking, the money charged is for the service of allowing one to park on campus, not to hold and protect the property or vehicle.

**California Articulation Number (CAN)**—Identifies courses that may be used in lieu of others. For example, CAN BUS 2 at San Joaquin Delta College, will be accepted in lieu of a course that is designated as CAN BUS 2 at another campus. More than 70 San Joaquin Delta College courses carry a CAN designation. For additional information, ask to see the CAN CATALOG OF COURSES in the Counseling Office.

Many other San Joaquin Delta College courses are articulated with four year institutions. Check for additional articulation in the Counseling Office.

**Catalog Rights**—The privilege of retaining course and program requirements needed for graduation as listed in the catalog at the time of initial enrollment in college.

To retain catalog rights, a student must maintain continuous enrollment through the completion of requirements for graduation.

Continuous enrollment is defined as earning college credit in at least one semester during an academic year without interruption of progression. Requests for a leave of absence must be approved by the Vice President of Student Services in advance of the term for which absence is anticipated.

**Certificate**—A certificate granted by a community college which recognizes a student's satisfactory completion of an organized program of vocational study.

**Class Section**—A specific course code number as identified in the class schedule.

**College Work Study (CWS)**—A program of federal aid which provides funds for student jobs.

**Community Service Class Non-College Credit**—Fee based classes offered through the Community Services Program.

**Corequisite**—A condition of enrollment consisting of a course that a student is required to take simultaneously in order to enroll in another course.

**Course**—A series of lectures, laboratories, or other media providing instruction on a specific subject.

**Course Description**—Brief statement about the content of a particular course.

**Credit**—Refers to the units earned by completing a course.

**Credit by Examination**—Course or unit credit granted for demonstrated proficiency in a given area as determined by examination.

**Credit/No Credit**—A grading system by which units of credit may be earned but no letter grade is assigned. Such units are not used in computing the grade point average. The credit/no credit grading option should not be confused with non-credit courses.

**CSU**—California State University System

**CSU General Education Requirement**—Courses which satisfy general education breadth requirements for California State Universities.

**Degree**—A diploma granted by a college stating that the student has successfully completed a course of study in a specific field. The most common degrees are:

- 1) A.A. - Associate in Arts;
- 2) A.S. - Associate in Science
- 2) B.A. - Bachelor of Arts;
- 3) B.S. - Bachelor of Science.

**Disabled Student Service**—A support service offered through Disabled Student Programs and Services to facilitate equal access for students with a documented disability.

**Dismissal**—A situation caused by unsatisfactory low academic or progress performance, misconduct, or poor academic progress in which the student may not continue at the college without approval for readmission.

**Drop**—Officially withdrawing from a course, but remaining enrolled in college.

**Elective**—A course which is not required for a major or for general education but is acceptable for credit. An elective course may be in any area of study.

**Full-time Student**—A student enrolled in twelve or more course units in a regular semester or four or more units during the summer intersession.

**General Education Requirements**—A group of courses required to earn a degree which provide a broadly based education.

**Good Standing**—A student whose grade point average and cumulative grade point average is a C (2.0) or better and has a course completion ratio of over 50%.

**Grade Point**—A=4, B=3, C=2, D=1, F=0

**Grade Point Average (G.P.A.)**—An overall level of academic achievement used as a measure in making decisions regarding good standing, probation, disqualification, and dismissal, eligibility for graduation, and transfer to four-year institutions. The grade point average is derived from the following unit system:

- A = 4 grade points per unit
- B = 3 grade points per unit
- C = 2 grade points per unit
- D = 1 grade point per unit
- F = 0 grade points per unit

The G.P.A. is calculated by dividing the total number of grade points received by the number of units attempted.

**Hour**—Same as credit, credit unit, unit (See Credit).

**IGETC:** Intersegmental General Education Transfer Curriculum is a series of courses that Delta College students may use to satisfy lower division general education requirements at any CSU and most UC campuses. All coursework applicable to the IGETC must be completed in order to be accepted by CSU and UC. The IGETC will probably be most useful for students who want to keep their options open before making a final decision about transferring to a particular CSU or UC campus.

**Independent Study**—Individual study in areas not covered by a regular course.

**Intersession**—A period between the fall and spring semesters.

**Limitations on Enrollment**—A condition of enrollment which limits how students qualify for a particular program. Limitations apply to courses that include public performance or intercollegiate competition where a tryout or audition is necessary. Some courses require formal admission to a particular program in order to enroll (e.g. Associate Degree Nursing and Licensed Vocational Nursing programs, Post Academy).

**Lower Division**—Courses at the freshmen and sophomore level of college. A four year college/university major.

**Major**—An organized program of courses within a discipline leading to an associate degree or vocational certificate.

**Matriculation**—A process which brings a college and a student who enrolls for credit into an agreement for the purpose of realizing the student's educational objective. Primary components of matriculation are assessment, orientation, and counseling of new non-exempt students. The following students will be exempted from the matriculation process:

- 1) Students who have completed an associate degree or higher;
- 2) Students who seek to enroll in non-credit courses only.

**Non-credit Course**—Courses numbered 100 or above which grant no college credit or student grades. A non-credit course should not be confused with the credit/no credit grading option.

**Open Entry**—A course(s) which may be added anytime to a program of study throughout the semester.

**Open Exit**—A course(s) which may be completed upon fulfillment of course requirements at any time during the semester.

**Prerequisite**—A condition of enrollment a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.

**Probation**—A period of time in which a student is conditionally enrolled contingent upon either improvement of scholastic achievement, improvement of course completion ratio, and/or conduct compliance.

**Program Changes**—Adding or dropping classes to the original program.

**Registration**—The process of selecting and enrolling in classes and paying the required fees.

**Schedule of Classes**—A publication used during registration, providing the subject, description of course, course number, course title, units, time, instructor and location of classes offered.

**Semester**—A term of the academic year— Fall and Spring, each lasting approximately eighteen weeks.

**Student Educational Plan (SEP)**—Requirements a student must meet and the courses, programs, and services required to achieve the stated goal. The SEP is developed by the student and counselor.

**Student Load**—The number of course units in which a student enrolls in any given term. Full time status equals 12 or more units.

**TBA**—(To be announced/arranged—TBA) A notation in the Schedule of Classes indicating when the time of a class may be arranged independently or that the location is to be announced.

**Transcript**—An official document of courses taken by the student showing the final grade received. Official transcripts must bear a seal of the college and the signature of a designated college official.

**Transfer**—Changing enrollment from one college to another after meeting the requirements for admission to the second institution.

**Transfer Course**—A course acceptable for credit from one college to another.

**Units**—A measure of college credit based on one unit for each lecture hour per week or for every two to three laboratory hours per week.

**Units Attempted (UA)**—Total number of units in which a student has enrolled.

**Units Completed (UC)**—Total number of units for which a student has received a grade of A, B, C, D, or F or Credit/No Credit.

**U.C.**—The University of California System

**Upper Division**—Courses or classes intended for the junior and senior years of college.

**Variable Units**—The range of units which may be earned in a given course (e.g. 1-3 units).

**Withdrawal From College**—Officially withdrawing from college.

## Ausencia de Discriminación

De acuerdo con la legislación de los derechos civiles, San Joaquin Delta College provee servicios y beneficios a sus estudiantes sin hacer caso de raza, color, origen nacional, sexo, edad o a cualquier impedimento. La falta de habilidad con el inglés no será obstáculo a la admisión ni a la participación en los programas de educación vocacional.

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

Para más información acerca de estas leyes y disposiciones, comuníquese con:

**ADA/Sec. 504 Coordinator  
Coordinadora del ADA/Sec. 504**

Ms. Karen Andersen, Director,  
Disabled Students Programs & Services  
Directora de Programas y  
Servicios para Estudiantes Incapacitados  
Cunningham Center 120  
(209) 954-5330 (V/TDD)

**Affirmative Action  
Acción Afirmativa**

Elizabeth Zulueta,  
Director  
Directora  
Administration Building 202  
(209) 954-5055

**Title 9 and Gender Equity Coordinator  
Coordinadora del Título 9 y de Equidad de Géneros**  
Elizabeth Zulueta

## Apprenticeship

San Joaquin Delta College provides related courses of instruction in accordance with the California Apprenticeship Law. Courses cover related and supplemental instruction in related technical areas of the trades and are intended to complement the skills learned on the job. Information on how to become an apprentice may be obtained from the Division of Apprenticeship Standards, Don Simonich, P.O. Box 213030, Stockton, CA 95213-9030 or San Joaquin Delta College, Apprenticeship Office, Holt Center 140, 5151 Pacific Avenue, Stockton, CA, 95207. Phone: 954-5236.

**The following is a list of apprenticeship related training courses offered at Delta College.**

Auto Mechanics	Maintenance Mechanic
Body and Fender Repair	Mechanical Maintenance
Civil Maintenance	Mill Cabinet
Diesel Technology	Painting and Decorating
Electrical	Plant Operator
Electrical Maintenance	Plumbing and Pipefitting
Machinist	

## 2+2 Articulated Courses

Students who have completed articulated courses in high school may receive college credit and advanced placement at San Joaquin Delta College. The College is committed to comprehensive articulation of instructional programs with both secondary and postsecondary educational institutions, usually referred to as "2+2+2" articulation. The "2+2" articulation links the high school program, adult school and ROP with San Joaquin Delta Community College programs. These articulated programs lead to an associate degree. The "2+2+2" articulation adds a four-year college or university program leading to a baccalaureate degree where appropriate.

The articulation process is a system designed to help students

to advance from one course, program, or educational level to the next without unnecessary repetition of essentially similar courses for which credit has been received.

If you have taken any of the courses on the following list, you may wish to exercise your right to obtain college credit and advanced placement by contacting the principal at your high school to request a "San Joaquin Delta College/Secondary School Application for College Credit" (Procedure 6298) before or at the time of registration.

If you have any questions, please contact the Articulation Officer at (209) 954-5046.

### LIST OF ARTICULATED COURSES

<b>AMADOR H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>	Construction Technology	"	CONST 10
Auto Services ROP	"	AUTO 62	<b>LODI H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>
Auto Services ROP	"	AUTO 63	Accounting I	"	BUS 10A
Auto Services ROP	"	AUTO 64	Interior Design	"	FCS 10
A.P. Calculus	"	MATH 1	Architectural Design or		
			Adv. Architectural Design	"	ARCH 1
<b>ARGONAUT H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>	Drafting 1 or Adv. Drafting	"	E TECH 3
Accounting 1	"	BUS 10A	Calculus A.P.	"	MATH 1
			Fashions	"	FCS 47A
<b>EAST UNION H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>	Drafting II, III	"	E TECH 11
Computer Keyboarding	"	BIM 1A/1B	Auto 1,2 and ROP	"	AUTO 62
Accounting I	"	BUS 10A	Auto 1,2 and ROP	"	AUTO 63
Computer Applications I	"	CS 18B	Auto 1,2 and ROP	"	AUTO 64
Drafting I	"	E TECH 3			
Metal Fabrication	"	MECH 15	<b>R.O.P. LODI CAREER CENTER</b>	equivalent to	<b>DELTA COLLEGE</b>
English for Business	"	BUS 17A	Fashion Merchandising	"	FCS 40
Ornamental Horticulture	"	OH 10	Medical-Dental Office Management	"	BIM1B
			ONLY		
<b>ESCALON H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>	Pagemaker 5-Macintosh	"	BIM 23A
Accounting ROP 7700 & 7750	"	BUS 10A	WP/Adv. WP for Windows	"	BIM 12D/12E
Auto I	"	AUTO 62	Nurse Assistant #7550	"	HS 70
Automotive Tech. III	"	AUTO 63	Fire Science	"	FIRE 3
Automotive Tech. II	"	AUTO 64	Construction Technology	"	CONST 10
Computers Level II	"	BIM 12D/12E/12F			
Drafting 1	"	E TECH 3	<b>MODESTO CITY SCHOOLS</b>	equivalent to	<b>DELTA COLLEGE</b>
Computers Level I	"	BIM 1A/1B	Electrical Trades (ROP)	"	ELEC 30
<b>GALT H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>	<b>STAGG H.S.</b>	equivalent to	<b>DELTA COLLEGE</b>
Child Development II	"	FCS 32A	Clothing Textiles 3 & 4	"	FCS 47A
Interior Design	"	FCS 10	Foods and Nutrition 1 & 2	"	FCS 8
Auto Mechanics I	"	AUTO 62	Auto Mechanics 1, 2	"	AUTO 62
Auto Mechanics I	"	AUTO 63	Auto Mechanics 1, 2	"	AUTO 63
Auto Mechanics I	"	AUTO 64	Auto Mechanics 1, 2	"	AUTO 64
			Construction 3, 4	"	CONST 10
<b>LINDBERGH ED. CTR.</b>	equivalent to	<b>DELTA COLLEGE</b>	Drafting 1 & 2	"	E TECH 3
0600 Accounting Clerk 1	"	BUS 10A	English 7, 8 E/W	"	ENG 79
Automotive Tech I	"	AUTO 62			
Automotive Tech II	"	AUTO 63	<b>WOODRUFF R.O.C</b>	equivalent to	<b>DELTA COLLEGE</b>
Automotive Tech III	"	AUTO 64	Automotive Technology	"	AUTO 62
R.O.P. Career Office Training	"	BIM 31	Automotive Technology	"	AUTO 63
R.O.P. Careers with Children - B	"	FCS 32A	#8500 Keyboarding I	"	BIM 1A
R.O.P. Fashion Merchandising	"	FCS 40	#8501 Keyboarding II	"	BIM 1B
Computer Aided Drafting	"	E TECH 12	#8506 MS Word Processing	"	BIM 7A
R.O.P. Career Office Training	"	BIM			
32A, B, C					
Health Careers	"	HS 39			
R.O.P. Career Office Training	"	BUS 17A			

## List of Articulated Courses Continued

#8510 Intro to PageMaker "	BIM 23A		
#8503 Electronic Office Calc.	" BIM 32		
Business Accounting #1330	BUS 10A		
<b>BEAR CREEK H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Accounting I "	BUS 10A		
Keyboarding/Computer Applications 1A/1B	" BIM		
Fashion and Design "	FCS 47A		
English 12CP "	ENG 79		
Introduction to Machine Drafting 3	" E TECH		
Advanced Computer Applications	" CS 18B		
Advanced Auto Mechanics	AUTO 62		
Auto Services ROP	AUTO 63		
Auto Services ROP	AUTO 64		
<b>BRET HARTE H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Beginning Mechanical Drawing 3	" E TECH		
<b>CALAVERAS H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Auto. Svcs. Occupations (R.O.P.) 62	" AUTO		
Automotive Level II "	AUTO 63		
Automotive Mechanics 1, 2 "	AUTO 64		
Architectural Design I "	ARCH 1		
Mechanical Engineering Drafting I 3	" E TECH		
CPTR Aided Drafting & Design III or IV	"		
E TECH 12			
Police Science, R.O.P. "	AJ 22		
Police Science, R.O.P. "	AJ 25		
Police Science, R.O.P. "	AJ 26		
Hospital Community Health Services ROP	"		
HS 36			
Hospital Community Health Services ROP	"		
HS 39			
English IV "	ENG 79		
Shop Skills, AG Equipment Const. II,			
AG Equipment Const. III "	AGENGR 21		
<b>EDISON H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Intermed. Clothing 1 & 2 "	"		
FCS 47A			
Auto Mechanics 1, 2 "	AUTO 62		
Auto Mechanics 1, 2 "	AUTO 63		
Auto Mechanics 1, 2 "	AUTO 64		
Mechanical Drawing 1-2 "	E TECH 3		
Calculus 1, 2 #3765 "	MATH 1		
<b>FRANKLIN H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Clothing & Textiles 3 & 4 "	"		
FCS 47A			
Vocational Accounting I "	BUS 10A		
<b>LINCOLN H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
ROP Child Care "	FCS 32A		
Fashion II "	FCS 47A		
Foods II "	FCS 8		
Drafting 1 "	E TECH 3		
Accounting 1 "	BUS 10A		
A.P. Calculus AB "	MATH 1		
Keyboarding "	BIM 1A ONLY		
7532-04 Const. Tech "	CONST 10		
4520 Desktop Publishing "	BIM 23A		
#5011- Drafting 2 "	E TECH 11		
<b>LINDEN H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
ROP Careers w/ Children - B "	"		
FCS 32A			
ROP Careers w/ Children - A"	FCS 29		
Computer Applications "	CS 18B		
Drafting I "	E TECH 3		
<b>MANTECA H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Computer Keyboarding./Typing "	"		
BIM 1A ONLY	Accounting I "	BUS	
10A			
Computer Applications "	CS 18B		
Architecture Drafting & Design	" ARCH 1		
Drafting I "	E TECH 3		
Advanced Welding "	MECH 10		
Precalculus 2320 "	MATH 36		
<b>RIPON H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Computers in Ag. Bus. Mgt. "	"		
AGBUS 15			
<b>SIERRA H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Fashion and Design "	FCS 47A		
Computer Keyboarding/Typing"	BIM 1A/1B		
Accounting 1 "	BUS 10A		
Computer Applications "	CS 18B		
<b>TOKAY H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	
<b>LEGE</b>			
Auto I and Auto II "	"		
AUTO 62			
Auto I and Auto II "	AUTO 63		
Auto I and Auto II "	AUTO 64		
Drafting Introduction "	E TECH 3		
Keyboarding/Computer Literacy 1A/1B	" BIM		
Accounting "	BUS 10A		
Computer Applications "	CS 18B		
Advanced Fashion "	FCS 47A		
Interior Design "	FCS 10		
Consumer Food & Nutrition "	FCS 8		
Parenting and Child Care Aide	" FCS 29		
<b>TRACY H.S.</b>	<b>equivalent to</b>	<b>DELTA COL-</b>	

## Cooperative Work Experience Education

Delta College recognizes the value of learning experiences that enhance formal college studies. A student may earn (elective) units towards an A.A. degree for on-the-job employment experience if they are also enrolled in a course directly related to their employment. Students must be enrolled in at least seven units of course work including Work Experience units. Students enrolling in summer intersession must be enrolled in one course directly related to their employment (no minimum unit requirement).

**Cooperative Work Experience Education** is supervised employment, extending classroom based occupational learning to on-the-job experience. The student may qualify by using either the **Parallel** or the **Alternate Plan**.

1. **Parallel Plan:** Specifically designed for students who are working and attending classes during the same semester. Up to 4 units of Work Experience credit may be earned per semester. 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.
2. **Alternate Plan:** Specifically designed for students who attend classes full time one semester (7 or more units) and work full time the next semester. Up to 8 units of Work Experience credit may be earned per semester. 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.

Students must be enrolled in the Work Experience program by the census date for full term classes for each semester. The class code numbers are available only from the Internship/Work Experience office. For more information, contact the Internship/Work Experience office, Holt Center 140, or phone 954-5269.

Administration of Justice AJ 92V  
 Administration of Justice AJ 95V  
 Ag/Business AGBUS 96V  
 Ag/Engineering AGEGR 96V  
 Animal Science AHSC 96V  
 Business BUS 98V  
 Computer Science CS 98V  
 Family & Consumer Studies FCS 93V  
 Fire Science FIRE 91V  
 Health Sciences HS 93V  
 Health Sciences HS 97V  
 Home Economics H EC 93V  
 Natural Resources NR 94V  
 Ornamental Horticulture OH 96V  
 Plant Science PLANT 96V  
 Social Sciences VOED 99V  
 Vocational Ed (Apprentice) VOED 80V  
 Vocational Ed VOED 90V  
 Vocational Ed VOED 96V

## Developmental Education

The purpose of Developmental Education is to provide courses that will assist students in mastering the basic skills necessary for them to continue their education. The instructional program includes basic, developmental and advanced courses in reading, writing, study skills, English as a Second Language, and mathematics. These courses are supported by laboratory experiences of individualized, self-paced practice. Six laboratories are available with materials, media, and tutorial assistance to help students improve their skills. The laboratories include the Center for Academic Progress, the Writing Laboratory, the English as a Second Language Laboratory, the Learning Disabilities Laboratory, the Basic Skills Math Laboratory, and the Tutorial Center. See Developmental Education, English, and Learning Disabilities sections of the COLLEGE CATALOG for course descriptions.

## Internship Program

Delta College recognizes the value of learning experiences that enhance formal college studies. A student attending Delta College may earn units towards an A.A. degree and transfer for an internship with business or industry if they are also enrolled in a course directly related to their internship. Each student shall be engaged in a specific research project or on-the-job learning activities under the supervision of a worksite supervisor and college internship instructor. Students must be enrolled in at least seven units of course work including Internship units. Students enrolling in summer intersession must be enrolled in one course directly related to their employment (no minimum unit requirement).

**Internships** extend classroom based occupational learning to work-based learning activities at the work site. The student may qualify by using either the **Parallel** or the **Alternate Plan**.

1. **Parallel Plan:** Specifically designed for students who are working and attending classes during the same semester. Up to 4 units of Internship credit may be earned per semester. 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.
2. **Alternate Plan:** Specifically designed for students who attend classes full time one semester (7 or more units) and enroll in an internship the next semester. Up to 8 units of Internship credit may be earned per semester. 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.

Students must be enrolled in the Internship program by the census date for full term classes for each semester. For more information, contact the Internship/Work Experience office, Holt Center 140, or phone 954-5269.

### The following is a list of Internship courses.

Agriculture Business	Construction
Agriculture Engineering	Diesel Technology
Animal Science	Engineering Technology
Administration of Justice	Fire
Automotive Mechanics	Industrial
Auto Body	Machine Tool
Business Information Mgt	Ornamental Horticulture
Business and Accounting	Printing Technology
Computer Science	Reading

## Learning Disabilities Program

Students qualifying for the Learning Disabilities program may enroll in these courses which provide specialized small group instruction in reading, spelling, vocabulary and study skills. Individual prescriptions are based on assessment and diagnosis for the specific needs of each student. The program also serves as a support service and provides reinforcement to help students meet performance expectations in basic skills, vocational and academic courses.

## Non-Discrimination

In accordance with the requirements of the Civil Rights Act, San Joaquin Delta College provides services and benefits to students regardless of race, color, national origin, sex, age or handicap. The lack of English language skills will not be a barrier to admission and participation in vocational education programs.

(Title VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 503 and 504 of the Rehabilitation Act of 1973, as amended.)

Additional inquiries regarding these laws and regulations may be directed to: (See below)

**ADA/Sec. 504 Coordinator**  
**Coordinadora del ADA/Sec. 504**

Ms. Karen Andersen, Director,  
Disabled Students Programs & Services  
Cunningham Center 120  
(209) 954-5330 (V/TDD)

**Affirmative Action**

Elizabeth Zulueta,  
Director  
Administration Building 202  
(209) 954-5055

**Title 9 and Gender Equity Coordinator**

Elizabeth Zulueta

## Notice On Validation Of Skills Requisites

During 1998-99, San Joaquin Delta College will undertake a study to evaluate the validity of skills requisites and skills co-requisites in a number of courses offered at the institution. The study involves the removal of basic skills requisites in reading, composition, and mathematics that have been in place for several years. As always, students are encouraged to carefully evaluate their own skills, ability, motivation, and the nature of the classes under consideration.

## Prerequisites, Corequisites, Limitations on Enrollment\*

### DECLARING EQUIVALENCY

Any student who does not meet a courses pre or corequisite, but who believes that he/she has completed the equivalent of the course at another institution or through some other means, may seek entry into a class by filing a *Petition for Declaration of Equivalence*. The student will be allowed to enroll in the courses pending the disposition of the petition. These petitions are available in Holt Center 101.

### CHALLENGING PRE/COREQUISITES

A student may challenge a pre/corequisite by obtaining a petition from the Office of Admissions, Holt Center 101. The completed petition, along with supporting documentation should be submitted to Holt Center 101 and will be reviewed by the Matriculation Appeals Committee. The Committee's decision is final.

### Grounds for Challenge

#### Of specific pre/corequisites:

- The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite.
- The pre/corequisite has not been established in accordance with regulation or the District's approved policy.
- The pre/corequisite is unlawfully discriminatory or applied in a discriminatory manner.
- The pre/corequisite has not been made reasonably available and it has caused the student an undue delay in achieving educational goals.

#### Of limitations on enrollment:

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 other conditions limited to a cohort of students. The student shall be allowed to enroll if otherwise he or she would be delayed by a semester or more in attaining the associate degree or certificate specified in his or her Student Educational Plan (SEP).

#### Of health and safety pre/corequisites:

The student seeks to enroll in a course which has a pre/corequisite established to protect health and safety, and the student demonstrates that he or she does not pose a threat to himself or herself or others.

### Appeals Process

- For challenges concerning academic qualifications (declaring equivalency):
  - The student shall submit a petition to the appropriate division chairperson.
  - The division chairperson shall make a determination in consultation with the appropriate faculty.
  - If the student is dissatisfied with the decision of the division chairperson, a request may be made to the division chairperson for review by the Matriculation Appeals Committee.
- For challenges based on non-academic grounds:
 

Students should submit petitions and supporting documentation directly to the Matriculation Appeals Committee.
- The Matriculation Appeals Committee shall judge the relevancy of evidence and make its findings and recommendations for the disposition of the petition. The decision of the Committee shall be final.

### Petitions and Documentation

- All petition forms may be picked up and submitted to the Admissions and Registration Office, Holt Center 101.
- Students are responsible for providing completed petitions and all supporting documentation.

\* For Definitions, please see Definition of Terms, pages 21-22.

## Reading, English Composition Requirements

### English Composition

Students with a declared goal of an associate degree or transfer program must enroll in an English composition course after they complete six units of AA degree appropriate or transfer courses. Placement in English composition is dependent upon appropriate test scores or course prerequisites.

### 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 corequisite of reading must enroll in reading (See below for appropriate reading classes.) 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 before they will be allowed to enroll.

### English

#### **As A Second Language**

ESL students who do not have a United States of America high school diploma and foreign students will be placed based upon an ESL assessment. ESL students who do have a United States of America high school diploma may either use the ESL assessment or the reading section of the assessment/placement assessment and the reading requirements at the left.

### COMPOSITION

<p style="text-align: center;"><b><u>Level III</u></b> ENG 1A</p>		
<p style="text-align: center;"><b><u>Level II</u></b> ENG 79 (Prepares for entry into ENG 1A and Satisfies the associate degree requirement.)</p>	<b>READING</b>	<b>ESL</b> (Fulfills the Reading requirement)
<p style="text-align: center;"><b><u>Level I</u></b> ENG 87</p>	<p style="text-align: center;"><b><u>Level I</u></b> READ 98G, H, I, J or READ 90E, F READ 90C, D READ 90A, B</p>	<p style="text-align: center;"><b><u>Level I</u></b> ENG 86 G, H, I, J ENG 85 program ENG 84 program ENG 83 program ENG 82 program ENG 80/81 program</p>

Level II and III courses are associate degree appropriate. Level I courses do not count toward the associate degree. Any level may be challenged by taking the appropriate challenge test or applying for review through the appeal process. Appointments for challenge tests may be arranged through the Assessment Center in Shima Center 144, telephone 954-5535. Appeals may be made through Admissions and Records, Holt Center 101.

### Special Education Program

The curriculum offered in Special Education has been designed to provide parents, professionals, paraprofessionals, potential special educators, and other interested persons with an opportunity to develop a basic understanding and some specific skills related to serving people with special needs.

The non-credit classes have been designed specifically for students with disabilities.

Special Education courses are offered through the Disabled Student Program and Services located in Cunningham Center 120. Call: 954-5330 (V/TDD).

## TRANSFER MAJOR REQUIREMENTS

This section includes the specific requirements for transfer to four year colleges and universities. Delta College offers lower division transfer courses to meet the requirements for most baccalaureate majors offered by accredited colleges and universities in the United States. Students should consult a counselor or academic advisor to be certain they enroll in courses to meet the freshman and sophomore level requirements of the college or university of their choice. Most of the transfer students from Delta College are planning to attend either the California State University (CSU), the University of California (UC), or a college or university in the private sector.

## CALIFORNIA STATE UNIVERSITY (CSU)

Completion of the CSU General Education Certification Course Pattern will meet the General Education-Breadth Requirements of the CSU. Students will need to have the general education certified prior to transfer to the CSU. Students who have attended other colleges are urged to meet with a counselor or academic advisor for help on satisfying General Education-Breadth Requirements. Students are advised that these are the minimum requirements and individual CSU campuses have the authority to add to the General Education-Breadth Requirements. Students should consult a counselor or academic advisor for additional information.

\* CSU Pattern — (see page 33)

## MESSAGE FOR STUDENTS PLANNING TO TRANSFER TO THE CALIFORNIA STATE UNIVERSITY SYSTEM AT JUNIOR STANDING

The California State University System has notified all California Community Colleges of its intent to enforce its policy pertaining to students who intend to transfer to any CSU campus at junior standing. The Chancellor of the California State University has stated that the California State University Trustees have directed CSU campuses to come into compliance with existing CSU policy that permits the admission only of those junior and senior transfer students who are eligible to enter the CSU directly out of high school or who have completed GE-Breadth requirements in English language (at least 9 semester units) and mathematics (typically 3 semester units).

It is important that Delta students be aware of the requirements as, in some cases, students may need a semester or two to take the prerequisite courses necessary to enroll in general education mathematics courses. If you plan to transfer to the CSU, please note the following requirements. Check with a counselor if you have any questions about your individual transfer status.

Students who plan to enroll at a CSU campus, and who did not meet first-time freshman admission requirements at high school graduation, are required to complete the following to meet junior standing at transfer: a grade-point average of 2.0 or better in a minimum of 56 transferable semester units; within the minimum 56 transferable semester units, a minimum of 39 semester units selected from CSU's General Education-Breadth requirements or the Intersegmental General Education Transfer Curriculum (IGETC) with a grade of "C" or better in each course; and the completion of the Communication in the English Language and Critical Thinking and Mathematics requirements of the CSU General Education pattern or communication and mathematics requirements of the IGETC pattern, whichever you have chosen to follow.

The English, Oral Communication, and Critical Thinking requirements may be satisfied as follows:

- (CSU) English 1A, **And** Speech 1A, **And** English 1B, 1D or Philosophy 30
- (IGETC) English 1A, **And** Speech 1A, **And** English 1D

The Mathematics requirement may be satisfied as follows:

- (CSU) Any one of the following courses: Mathematics 1, 2, 10, 12, 13, 17A, 20, 30, 31, 36, or Psychology 12
- (IGETC) Any one of the following courses: Mathematics 1+, 2, 12, 13+, 20, 36, or Psychology 12  
+Transfer credit may be limited by CSU or UC or both.

Check your transfer eligibility with a counselor, or refer to the CSU General Education pattern or the IGETC pattern in the Fall 1998 [Schedule of Classes](#) or the [1998-99 College Catalog](#) for specific course requirements.

## INDEPENDENT COLLEGES AND UNIVERSITIES

California's fully-accredited independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college.

Although admissions requirements vary and are listed in the catalogs of the various universities and colleges, students who transfer to independent colleges and universities can be given credit for most, if not all, of their community college work. Most colleges and universities give full credit for general education courses and for most other courses designed by the community college for transfer. Since each independent college and university has different requirements it is important to see a counselor or academic advisor for proper course planning and transfer information.

Additional information on transfer opportunities is available in catalog form in the Transfer Center (Danner 202) and the Counseling and Guidance Office (Danner 205). Also, representatives from other colleges and universities visit San Joaquin Delta College on a regular basis. For more information, contact the Counseling and Transfer Center staff in the above locations.

## INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

Completion of the IGETC will permit a student to transfer from Delta College to a campus in either the California State University (CSU) or University of California (UC) system without need, after transfer, to take additional lower-division, general education course requirements. It should be noted that completion of the IGETC is not a requirement for transfer to CSU or UC, nor is it the only way to fulfill the lower-division general education requirements of CSU or UC prior to transfer. Students pursuing majors that require extensive lower-division preparation may not find the IGETC option appropriate to follow.

Students who plan to transfer to campuses of the California State University system or University of California system are reminded to request certification of their general education courses during the last semester or summer session of attendance and after acceptance to the university. Failure to complete full certification will cause courses to be reviewed differently at each campus. Applications are available in the Evaluations Office, Holt Center 101. Students must adhere the following requirements to be certified:

- \* For students with course work completed at other campuses, the campus of last attendance prior to transfer to CSU or UC will certify the course work. For Delta College to certify this course work an official transcript from each college attended must be on file in the Evaluations Office. Courses taken at other California community colleges will be placed in the IGETC pattern identified by the offering college. Courses taken at other regionally accredited institutions will be placed in the subject areas for which SJDC has equivalent courses. Equivalency is determined by SJDC evaluators or by SJDC faculty teaching the course.
- \* Course descriptions from prior colleges must accompany request for IGETC certification.
- \* Courses completed at foreign institutions are not acceptable except for certification of competence in a language other than English.
- \* Students requesting IGETC certification must have all official transcripts on file from every high school and college attended prior to requesting certification.

\* IGETC Pattern — (see page 34)

This section describes requirements for graduation with an associate degree. Students may pursue graduation requirements concurrently with transfer and/or certificate programs.

**Important Notice:** Students are encouraged to see a counselor or academic advisor regarding program planning to assist in the successful completion of academic goals within the earliest possible time frame. Counselors and advisors are familiar with requirements for each major instructional area and can assist in planning courses to meet more than one graduation, transfer, or certificate requirement.

## SAN JOAQUIN DELTA COLLEGE

# Associate Degree

# General Education Pattern

Each candidate for San Joaquin Delta College’s Associate in Arts degree or Associate in Science degree shall complete no fewer than a total of twenty-four (24) semester units of course work among categories I through V. Courses which would satisfy the major area requirement and general education course requirement may be used to meet either of the requirements, but not both.

<p><b>I. NATURAL SCIENCES</b> (1 course minimum)</p> <p>Animal Husbandry Science 10, 10L                  Anthropology 2 or 2/2L                  Astronomy 1 or 1/1L                  Biology 8, 11                  Chemistry 1A, 3A, 10                  Family and Consumer Sciences 6                  Geography 1 or 1/1L                  Geology 10                  Natural Resources 2                  Physical Science 1                  Physics 10                  Plant Science 10</p> <hr/> <p><b>II. SOCIAL SCIENCE</b> (1 course minimum from each group)</p> <p><u>Group A</u>                  History 17A, 17B, 27, 30A, 30B, 31, 34                  Political Science 1</p> <p style="text-align: right;"><i>Continued next column</i></p>	<p><b>II. SOCIAL SCIENCE (continued)</b></p> <p><u>Group B</u>                  Anthropology 1                  Economics 1A                  Geography 2, 10                  History 2A, 2B, 4A, 4B, 6A, 6B                  Family and Consumer Sciences 21, 26                  Political Science 10                  Psychology 1                  Social Science 30                  Sociology 1A</p> <hr/> <p><b>III. HUMANITIES</b> (1 course minimum)</p> <p>Anthropology 4                  Art 1A, 1B, 2, 3, 4                  Civilization 3                  Drama 10, 16A, 16B                  English 30, 35A, 37, 38, 39, 40A, 40B, 41, 42A, 42B, 43A, 43B, 45, 46A, 46B, 48A, 48B, 49, 52, 55, 57                  Family and Consumer Science 43                  Foreign Language 1, 51-52                  Humanities 3, 4                  Music 1, 2A, 2B, 4, 8                  Philosophy 6A, 6B                  Special Education 22</p>	<p><b>IV. LEARNING SKILLS</b> (1 course minimum, from each group)</p> <p><u>Group A</u>                  English 1A, 79, 79L</p> <p><u>Group B</u>                  Agriculture-Business 13                  Math 1,10,12,13,17A, 30, 31, 36,80,82,83A/B,84A/B, 87                  Philosophy 30                  Psychology 12</p> <p><u>Group C</u>                  Speech 1A</p>	<p><b>V. CONTEMPORARY PERSPECTIVES</b> (1 course minimum)</p> <p>Administration of Justice 21                  Biology 30                  Business 8, 20                  Computer Science 11                  Education 10                  English 34                  Family and Consumer Sciences 2, 3, 5, 23                  Health Education 1                  Journalism 1                  Philosophy 40                  Political Science 5                  Psychology 30                  Sociology 1B, 27, 33                  Speech 7</p> <p style="text-align: right;">Effective - Fall 1998</p>
--	--	---	---

**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 see a counselor or academic advisor in developing an individual education plan. (Counseling Office, Danner Hall 205, (209) 954-5650).

# CALIFORNIA STATE UNIVERSITY and COLLEGE

## General Education Pattern

Each candidate for the bachelor’s degree from a California State University (CSU) institution shall complete a pattern of general education courses which total a minimum of forty-eight (48) semester units. A student may take a maximum of thirty-nine (39) of the forty-eight (48) units at San Joaquin Delta College toward meeting the CSU general education requirement. The San Joaquin Delta College forty-two (42) 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 degrees.

<p><b>A. COMMUNICATION IN THE ENGLISH LANGUAGE AND CRITICAL THINKING:</b> A minimum of nine units is required to include one course from each group. A minimum grade of "C" is required.</p> <ol style="list-style-type: none"> <li><b>Oral Communication #</b> Speech 1A</li> <li><b>Written Communication #</b> English 1A</li> <li><b>Critical Thinking #</b> English 1B, 1D Philosophy 30</li> </ol>	<p><b>C. ARTS, LITERATURE, PHILOSOPHY AND FOREIGN LANGUAGES:</b> A minimum of nine units is required, to include at least three units from each of Group 1 and 2.</p> <ol style="list-style-type: none"> <li><b>Arts</b> Art 1A, 1B, 2, 3, 4, 6, 7A, 20A, 33A, 40A, 64A Drama 10, 16A, 16B English 30 Family and Consumer Sciences 43 Music 1, 2A, 2B, 2C, 4, 8 Photography 1A</li> <li><b>Humanities</b> Civilization 3 English 34, 35A, 37, 38, 39, 40A, 40B, 41, 42A, 42B, 43A, 43B, 45, 46A, 46B, 48A, 49 Humanities 14A, 14B Philosophy 6A, 6B, 40, 45, 50 Religion 14A, 14B</li> <li><b>Foreign Language</b> Any one course in the sequence 1-4 or Chinese 11-14 or any two courses in the sequence 51-54 SP ED 22, 23, 24</li> </ol>	<p><b>D. (Continued)</b></p> <p>Political Science 1. <i>OR</i> <b>Option 2 **</b> For <b>U.S. History</b>, one of the following: History 17A, 17B, 27, 30A, 30B, and For <b>U.S. Constitution and California State and Local Government</b> Political Science 1.</p> <ol style="list-style-type: none"> <li><b>Human Social, Political, and Economic Institutions</b> A minimum of six units from at least two separate disciplines. Administration of Justice 21 Agriculture Business 12 Anthropology 1, 6 Business 8, 26 Economics 1A Family and Consumer Sciences 21 Geography 2, 10 History 2A, 2B, 4A, 4B, 6A, 6B, 37 Political Science 5, 10 Psychology 1 Social Science 30 Sociology 1A, 1B, 27, 33**** Speech 7</li> </ol>
<p><b>B. PHYSICAL UNIVERSE AND ITS LIFE FORMS:</b> A minimum of nine units is required, to include at least one course from each of the first three groups listed below. A laboratory course from either Group 1 or 2 must be included.</p> <ol style="list-style-type: none"> <li><b>Physical Sciences</b> Astronomy 1, 1L* Chemistry 1A*, 3A* Geography 1, 1L* Geology 1A*, 10 Physical Science 1 Physics 2A*, 4A*, 10* Plant Science 14*</li> <li><b>Life Sciences</b> Animal Husbandry Sciences 10, 10L* Anthropology 2, 2L* Biology 1*, 8*, 11* Natural Resources 2 Plant Science 10, 10L*</li> <li><b>Mathematics Quantitative Reasoning</b> Mathematics 1, 2, 10, 12, 13, 17A, 20, 30, 31, 36 Psychology 12</li> </ol>	<p><b>D. SOCIAL, POLITICAL, AND ECONOMIC INSTITUTIONS AND BEHAVIORS; HISTORICAL BACKGROUND:</b> A minimum of twelve units is required, to include at least six units from each group.</p> <ol style="list-style-type: none"> <li><b>U.S. History/U.S. Constitution/ California State and Local Government**</b>  <i>Option 1 **</i> For <b>U.S. History/U.S. Constitution</b>, one of the following: History 17A, 27, or 30A; and For <b>California State and Local Government</b>, one of the following: History 17B, 30B, 31, 34 or</li> </ol>	<p><b>E. LIFE-LONG UNDERSTANDING AND SELF-DEVELOPMENT:</b> A minimum of three units is required.***</p> <p>Anthropology 4 Biology 30 Computer Science 11 English 33G Family and Consumer Sciences 2, 3, 5, 6, 23, 26 Health Education 1, 30 Humanities 4 Physical Education 1D, 8, 9A Psychology 3, 24, 30 Speech 3, 4</p> <p><b>NOTES:</b> * - indicates laboratory course ** - indicates "Meets Title 40404 requirement." *** - indicates "Entire three units may not be selected from Physical Education." **** - meets CSU Sacramento "Race and Ethnicity in American society" general education requirement. # - indicates with a "C" or better.</p>

(Continued next column)

**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 see a counselor or academic advisor in developing an individual education plan. (Counseling Office, Danner Hall 205, (209) 954-5650).

# INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

## General Education Pattern

Completion of the Intersegmental General Education Transfer Curriculum (IGETC) permits students to transfer from San Joaquin Delta College to a campus of either the California State University or the University of California without the need after transfer to take additional lower division general education courses to satisfy the campus' general education requirements. Students may also opt to fulfill the general education requirements by completing the specific lower division general education requirements of the school or college of the campus to which the student intends to transfer.

Both the California State University and the University of California have a specific American Institutions requirement that is separate from their general education requirements. Completion of the Intersegmental General Education Transfer Curriculum will not satisfy the American Institutions requirement. Courses used to satisfy the American Institutions requirement may not be counted to satisfy either of the Humanities (area 3) or a Social and Behavioral Science (area 4) requirement.

Students completing the IGETC general education pattern will meet the general education requirements for San Joaquin Delta College's associate degrees.

### LIST OF COURSES BY IGETC SUBJECT AREA:

<p><b><u>AREA 1 — COMMUNICATION</u></b> (3 courses, 9 semester units)</p> <p><b>GROUP A:</b> <b>ENGLISH COMPOSITION</b> (1 course, 3 semester units)</p> <p>ENG 1A</p> <p><b>GROUP B:</b> <b>CRITICAL THINKING — ENGLISH COMPOSITION</b> (1 course, 3 semester units)</p> <p>ENG 1D</p> <p><b>GROUP C:</b> <b>ORAL COMMUNICATION</b> (1 course, 3 semester units) Students transferring to UC do not have to meet the Oral Communication requirement.</p> <p>SPCH 1A</p> <hr/> <p><b><u>AREA 2 — MATHEMATICAL CONCEPTS and QUANTITATIVE REASONING</u></b> (1 course, 3 semester units)</p> <p>MATH 1+, 2, 12, 13+, 20, 36 PSYCH 12</p>	<p><b><u>AREA 3 — ARTS and HUMANITIES</u></b> (At least 3 courses, 9 semester units) At least one course from the Arts and one from the Humanities.</p> <p><b>ART COURSES:</b> ART 1A, 1B, 2, 3+ DRAMA 10, 16A, 16B MUSIC 1+, 2A+, 2B+, 4+, 8</p> <p><b>HUMANITIES COURSES:</b> ANTHR 4 CAM 2*+, 3*, 4* CHIN 2*+, 3+*, 4+* CIVIL 3 ENG 35A, 37, 38, 39, 40A, 40B, 41, 42A, 42B, 43A, 45, 46A, 46B, 48A, 49 FREN 2*+, 3*, 4* GERM 2*+, 3*, 4* HIST 2A, 2B, 4A, 4B, 6A, 6B, 17A***, 17B***, 27, 30A***, 30B***, 31***, 34***, 37 HUM 4, 14A, 14B, JAPAN 2*+, 3*, 4* PHILO 6A, 6B, 40, 45, 50 RELGN 14A, 14B SPAN 2*+, 3*, 4*</p>	<p><b><u>AREA 4 — SOCIAL and BEHAVIORAL SCIENCES</u></b> (At least 3 courses, 9 semester units) Courses from at least two disciplines or an interdisciplinary sequence.</p> <p>ANTHR 1, 6 ECON 1A FCS 21 POLSC 1***, 5 PSYCH 1 SOCSC 30 SOCIO 1A, 27, 33</p> <hr/> <p><b><u>AREA 5 - PHYSICAL and BIOLOGICAL SCIENCES</u></b> (At least 2 courses required, 7-9 semester units) One Physical Science course and one Biological Science course; at least one must include a <u>laboratory</u>.</p> <p><b>PHYSICAL SCIENCE COURSES:</b> Courses with a <u>laboratory</u> component are <u>underlined</u></p> <p>ASTRO 1, <u>1L</u> CHEM <u>1A</u>, <u>3A+</u> GEOG 1, <u>1L</u> GEOL <u>1A</u>, 10+ PHSCI 1 PHYSC <u>2A+</u>, <u>4A+</u>, <u>10+</u> PLANT <u>14</u></p>	<p><b><u>AREA 5 - (Continued)</u></b></p> <p><b>BIOLOGICAL SCIENCE COURSES:</b> Courses with a <u>laboratory</u> component are <u>underlined</u></p> <p>ANTHR 2, <u>2L</u> BIOL <u>1</u>, <u>8+</u>, <u>11</u> PLANT 10, <u>10L</u></p> <p><b>LANGUAGE OTHER THAN ENGLISH</b> Proficiency equivalent to two years of high school study in the same language. Students transferring to CSU do not have to meet the requirement of a proficiency other than English. The following course(s) at this institution fulfill the requirement:</p> <p>CAM 2*+, 3*, 4* CHIN 2*+, 3+*, 4+* FREN 2*+, 3*, 4* GERM 2*+, 3*, 4* JAPAN 2*+, 3*, 4* SPAN 2*+, 3*, 4*</p>
--	--	--	--

*Continued next column*

Effective - Fall 1998

### 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 see a counselor or academic advisor in developing an individual education plan. (Counseling Office, Danner Hall 205, (209) 954-5650).

- \* Course may be listed in more than one area, but shall not be certified in more than one area.
- + Transfer credit may be limited by UC or CSU, or both. Students should consult a counselor for additional information.
- \*\* Satisfies the American Cultures requirement at UC Berkeley.
- \*\*\* Courses which satisfy the American Institutions Requirement. These courses may not also be used to satisfy IGETC area.

**PLEASE SEEK ADVICE OF THE COUNSELING AND GUIDANCE OFFICE FOR ADDITIONAL INFORMATION**

## ASSOCIATE in ARTS DEGREE

### Majors Requirement

Minimum of eighteen (18) semester units of course work in approved program of study in a specific discipline.

**OR**

Minimum of nine (9) semester units of course work in a specific discipline and a minimum of nine (9) semester units of course work in related disciplines as specified in the Associate in Arts Major Areas of Concentration List.

**OR**

Fulfillment of the lower-division graduation requirements for any accredited baccalaureate institution.

### General Education Requirements

Minimum of twenty-four (24) semester units of general education courses as prescribed in the San Joaquin Delta College Associate Degree General Education pattern.

**OR**

California State University lower division General Education pattern.

**OR**

Intersegmental General Education Transfer Curriculum (IGETC) pattern.

**OR**

San Joaquin Delta College Associate Degree in Nursing Program requirements.

### Unit Requirement

A minimum of sixty (60) semester units of course work with a 2.00 ("C") average or higher.

### Competency Requirement

A minimum competency must be demonstrated by a grade of "C" or higher in courses offered in satisfaction of written communication and quantitative reasoning.

### Residence Requirement

Of the minimum required sixty (60) semester units, the student must complete at San Joaquin Delta College:

1. The last twelve (12) semester units and attend during the semester of qualification for graduation.

**OR**

2. A total of at least twenty-four (24) units.
3. Units earned through Credit by Examination do not apply as residency units.

## ASSOCIATE in ARTS DEGREE

### Major Areas of Concentration

A minimum of (18) units of course work as identified in the areas below excluding those courses identified as not applicable toward the associate degree.

#### **AGRICULTURE (TOP 01)**

Agriculture Technology and Sciences, General (TOP 0101.00)

Any combination of courses from the Agriculture Business, Agriculture Engineering, Plant Science, Animal Science, and Ornamental Horticulture departments.

Natural Resources (TOP 0115.00)

Any combination of courses in forestry, conservation, park management, and wild-life management.

#### **BIOLOGICAL SCIENCES (TOP 04)**

Natural (Life) Science, General (TOP 0401.00)

Any combination of courses from the Biology, Botany, Microbiology, and Zoology departments.

#### **BUSINESS and MANAGEMENT (TOP 05)**

Business and Commerce, General (TOP 501.00)

Any combination of courses from the Business and Business Information Management departments.

#### **COMMUNICATIONS (TOP 06)**

Communications, General (TOP 0601.00)

Any combination of courses from the Drama, English, Journalism, Broadcasting, and Speech departments.

#### **COMPUTER and INFORMATION SCIENCE (TOP 07)**

Computer and Information Science, General (TOP 0701.00)

Any computer or data entry courses.

#### **EDUCATION (TOP 08)**

Special Education, General (TOP 0808.00)

Any special education courses.

Physical Education (TOP 0835.00)

Any combination of courses from the Athletics and Physical Education and Recreation departments.

## ENGINEERING and RELATED INDUSTRIAL TECHNOLOGIES (TOP 09)

Engineering, General (requires Calculus)(Transfer) (TOP 0901.00)

Any combination of courses from the Electrical Technology, Electron Microscopy, and Mechanical Technology departments.

Electronics and Electric Technology (TOP 0934.00)

Any combination of courses from the Electrical Technology, Electron Microscopy, and Electronic Technology departments.

Electron Microscopy (TOP 0934.70)

Any electron microscopy courses.

Printing and Lithography (TOP 0936.00)

Any print technology courses.

Diesel Technology (TOP 0947.00)

Any diesel technology courses.

Automotive Technology (TOP 0948.00)

Any automotive technology courses.

Construction Crafts Technology (0952.00)

Any construction technology courses.

Technical Education (TOP 0999.00)

Any combination of courses from Automotive Technology, Construction Technology, Diesel Technology, Electrical Technology, Engineering Technologies, Printing Technology, Industrial Technology, Electronic Technology. Mechanical Technology departments.

## FINE and APPLIED ARTS (TOP 10)

Fine Arts, General (TOP 1001.00)

Any combination of courses from the Art, Music, Drama, Dance, Photography, and Graphic Arts departments.

Art (Painting, Drawing, and Sculpture) (TOP 1002.00)

Any art courses.

Music (TOP 1004.00)

Any music courses.

Dramatic Arts (TOP 1007.00)

Any drama courses.

Dance (TOP 1008.00)

Any dance courses.

Photography (TOP 1011.00)

Any photography courses.

## SECTION II, Part II — Instructional Programs

### FOREIGN LANGUAGES (TOP 11)

Foreign Languages, General (1101.00)

A concentration of more than one foreign language without giving full major emphasis to any one language, e.g., minimum of 12 units in one foreign language and 6 units in another.

French (TOP 1102.00)

Any French courses.

German (TOP 1103.00)

Any German courses.

Italian (TOP 1104.00)

Any Italian courses.

Spanish (TOP 1105.00)

Any Spanish courses.

Russian (TOP 1106.00)

Any Russian courses.

Chinese (TOP 1107.00)

Any Chinese courses.

Japanese (TOP 1108.00)

Any Japanese courses.

Greek (TOP 1111.00)

Any Greek courses

Arabic (TOP 1112.00)

Any Arabic courses.

Filipino (TOP 1117.10)

Any Tagalog courses.

### HEALTH PROFESSIONS (TOP 12)

Health Professions, General (TOP 1201.00)

Any combination of courses from the Health Education and Health Science departments.

Nursing, R.N. (TOP 1203.00)

Any nursing courses.

Nursing, L.V.N. (TOP 1203.20)

Any nursing courses

Psychiatric Technology (TOP 1239.00)

Any psychiatric technology courses.

Radiological Technology (TOP 1225.00)

Any radiologic technology courses

**CONSUMER EDUCATION AND HOME ECONOMICS (TOP 13)**

Consumer Education and Home Economics (TOP 1301.00)

Any combination of courses from the Family and Consumer Sciences, Food Technology, and Home Economics departments.

Culinary Arts (TOP 1306.30)

Any culinary arts courses.

**HUMANITIES (Letters) (TOP 15)**

English (TOP 1501.00)

Any combination of courses from the English and Reading departments.

**MATHEMATICS (TOP 17)**

Mathematics, General (TOP 1701.00)

Any mathematics courses

**PHYSICAL SCIENCES (TOP 19)**

Physical Sciences, General (TOP 1901.00)

Any combination of courses from the Physical Science, Physics, Chemistry, Astronomy, and Geology departments.

**PSYCHOLOGY (TOP 20)**

Psychology, General (TOP 2001.00)

Any psychology courses.

**PUBLIC AFFAIRS and SERVICES (TOP 21)**

Administration of Justice (TOP 2105.00)

Any administration of justice courses.

Fire Control Technology (TOP 2133.00)

Any fire science courses.

**SOCIAL SCIENCES (TOP 22)**

Social Sciences, General (TOP 2201.00)

Any combination of courses from the Anthropology, Economics, Education, History, Political Science, Psychology, Social Science, and Sociology departments.

**INTERDISCIPLINARY STUDIES (TOP 49)**

Liberal Arts and Sciences, General (Transfer Major) (TOP 4901.00)

Fulfillment of the lower-division requirements for any institution to which transfer is planned.

Biological and Physical Sciences (TOP 4902.00)

Any combination of courses in anatomy, physical anthropology, astronomy, bacteriology, biology, botany, chemistry, electron microscopy, geology, mathematics, microbiology, natural resources, physical geography, physical science, photography, physics, physiology, and zoology.

Humanities (TOP 4903.00)

Any combination of courses in art, dance, drama, history, humanities, languages, literature, music, philosophy, religion, and civilization.

## ASSOCIATE in SCIENCE DEGREE

### Majors Requirement

Minimum of eighteen (18) units of course work in an approved program of study in a specific discipline.

### General Education Requirements

Minimum of twenty-four (24) semester units of general education courses as prescribed in the San Joaquin Delta College Associate Degree General Education pattern.

OR

California State University lower division General Education pattern.

OR

Intersegmental General Education Transfer Curriculum (IGETC) pattern

OR

San Joaquin Delta College Associate Degree in Nursing Program requirements.

### Unit Requirement

A minimum of sixty (60) semester units of course work with a 2.00 ("C") average or higher.

### Competency Requirement

A minimum competency must be demonstrated by a grade of "C" or higher in courses offered in satisfaction of written communication and quantitative reasoning.

### Residence Requirement

#### Of the minimum required sixty (60) semester units, the

student must complete at San Joaquin Delta College:

1. The last twelve (12) semester units and attend during the semester of qualification for graduation.

OR

2. A total of at least twenty-four (24) units.
3. Units earned through Credit by Examination do not apply as residency units.

## ASSOCIATE in SCIENCE DEGREES 1998-99

<b>TOP Code</b>	<b>Degree Major</b>
1203.00	Associate Degree Nursing
201.00	Architectural Drafting
924.00	Civil Engineering Technology
952.00	Construction Technology
2105.10	Correctional Science
1306.30	Culinary Arts
924.00	Engineering Technology: Civil
924.00	Electronics/Electrical
901.00	Engineering Technology
2105.00	Law Enforcement
934.00	Mechanical Engineering Technology

## Major in Architectural Drafting

<u>First Semester</u>		<b>Units</b>
ARCH 1	Basic Architectural Drafting	3
ARCH 8	Materials of Construction	3
CS 11	Computer Science Fundamentals	3
ENG 1A	Written Communications	3
GEOG 1	Physical Geography	3
<b>OR</b>		
NR 2	Conservation of Natural Resources	3
<b>OR</b>		
PHSCI 1	Matter and Energy	3
<u>Second Semester</u>		
ARCH 9	Design Fundamentals	3
ARCH 12	Computer Aided Drafting	3
CONST 89	Methods and Planning	3
MATH 80	Elementary Algebra	4
SPCH 1A	Fundamentals of Speech	3
<u>Third Semester</u>		
ART 16	Descriptive Drawing and Rendering	3
ARCH 2	Architectural Practice: Working Drawings	6
CONST 78	The Uniform Building Code	2
HIST 17A	History of the United States	3
<b>OR</b>		
HIST 17B	History of the United States	3
<b>OR</b>		
POLSC 1	American Government and Institutions	3
<u>Fourth Semester</u>		
ARCH 3	Architectural Presentations	3
ARCH 5	Architectural Detailing	3
E TECH 41	Civil Drafting: Site Design and Improvement	4
ANTHR 1	Cultural Anthropology	3
<b>OR</b>		
ECON 1A	Principles of Economics (Macro)	3
<b>OR</b>		
SOCIO 1A	Introduction to Sociology	3
•GEN EDUC REQ	Course meeting the Humanities Requirement	3

**Total Units Required: 61**

•A course selected from the Humanities area of the General Education Requirements for the associate degree.

## Major in Civil Engineering Technology

<u>First Semester</u>		<b>Units</b>
ENGR 1	Introduction to Engineering and Technology	3
E TECH 11	Engineering Drafting	3
E TECH12	Computer Aided Drafting	3
•CS 11	Computer Science Fundamentals	3
•ENG 1A	Written Communications	3
SPCH 1A	Fundamentals of Speech	3
<u>Second Semester</u>		
E TECH 20	Materials and Measurements	4
ENGR 2	Engineering Graphics	4
•PHYSC 10	Introduction to Physics	4
••MATH 87	Technical Mathematics	5
<u>Third Semester</u>		
E TECH 31	Fundamentals of Civil Drafting	4
ENGR 10	Surveying	3
<b>OR</b>		
E TECH 70	Applied Surveying	3
E TECH 32	Technical Statics	3
<b>OR</b>		
E TECH 72	Applied Statics	3
•POLSC 1	American Government and Institutions	3
•ART 4	Exploring Art	3
<u>Fourth Semester</u>		
E TECH 41	Civil Drafting: Site Design and Improvement	4
ENGR 20	Surveying	3
<b>OR</b>		
E TECH 80	Applied Surveying	3
E TECH 42	Technical Strength of Materials	3
<b>OR</b>		
E TECH 82	Applied Strength of Materials	3
E TECH 43	Principles of Fluid Mechanics	3
<b>OR</b>		
E TECH 83	Applied Fluid Mechanics	3
•ECON 1A	Principles of Economics (Macro)	3

**Total Units Required: 67**

•Recommended General Education elective

••Recommended General Education mathematics elective OR another mathematics elective among MATH 31, 36, 1, 2, 3, 4, 5.

## Major in Construction Technology

<u>First Semester</u>		<b>Units</b>
ARCH 1	Basic Architectural Drafting	3
ARCH 8	Materials of Construction	3
C S 11	Fundamentals of Computer Science	3
ENG 1A	Written Communications	3
GEOG 1	Physical Geography	3
<b>OR</b>		
N R 2	Conservation of Natural Resources	3
<b>OR</b>		
PHSCI 1	Matter and Energy	3
 <u>Second Semester</u>		
ARCH 12	Computer Aided Drafting	3
CONST 54	Estimating and Specifications	3
CONST 73	Blueprint Reading	4
HIST 17A	History of the United States	3
<b>OR</b>		
HIST 17B	History of the United States	3
<b>OR</b>		
POLSC 1	American Government and Institutions	3
 <u>Third Semester</u>		
ARCH 2	Architectural Practice: Working Drawings	5
<b>OR</b>		
BUS 60	Small Business Management	3
<b>OR</b>		
BUS 90A	Small Business Start-up	2
AND		
BUS 90B	Small Business Start-up	2
AND		
BUS 90C	Small Business Start-up	2
C S 14	Microcomputers and Small Business Systems	3
CONST 78	The Uniform Building Code	2
MATH 80	Elementary Algebra	4
BUS 18A	Business Law	3
 <u>Fourth Semester</u>		
CONST 89	Methods and Planning	3
E TECH 46	Mechanical and Electrical Systems	3
INDUS 20	Industrial Safety and Health	3
ANTHR 1	Cultural Anthropology	3
<b>OR</b>		
ECON 1A	Principles of Economics (Macro)	3
<b>OR</b>		
SOCIO 1A	Introduction to Sociology	3
•GEN EDUC		
REQ	Course meeting the Humanities Requirement	3
<b>Total Units Required: 60-63</b>		

•A course selected from the Humanities area of the General Education Requirements for the associate degree.

## Major in Correctional Science

<u>First Semester</u>		<b>Units</b>
A J 22	Concepts of Criminal Law	3
A J 51	Introduction to Correctional Science	3
ENG 1A	Written Communications	3
SOCIO 1A	Introduction to Sociology	3
ELECTIVE	Elective Course	3
 <u>Second Semester</u>		
A J 55	Control and Supervision in Corrections	3
A J 57	Legal Aspects of Corrections	3
HIST 17A	History of the United States	3
<b>OR</b>		
HIST 17B	History of the United States	3
<b>OR</b>		
POLSC 1	American Government and Institutions	3
SPCH 1A	Fundamentals of Speech	3
ELECTIVE	Elective Course	3
 <u>Third Semester</u>		
A J 31	Report Preparation	3
A J 53	Correctional Interviewing and Interventions	3
MATH 80	Elementary Algebra	4
C S 11	Fundamentals of Computer Science	3
ELECTIVE	Elective Course	2
 <u>Fourth Semester</u>		
A J 28	Juvenile Law and Procedures	3
<b>OR</b>		
A J 54	Introduction to Probation and Parole	3
A J 41	Narcotics Investigation and Control	3
•GEN EDUC		
REQ	Course meeting the Humanities Requirement	3
••GEN EDUC		
REQ	Course meeting the Natural Science Requirement	3-4
ELECTIVE	Elective Course	3
<b>Total Units Required: 60-61</b>		

•A course selected from the Humanities area of the General Education Requirements for the associate degree.

••A course selected from the Natural Science area of the General Education Requirements for the associate degree.

## Major in Culinary Arts

<u>First Semester</u>		Units
CUL ART 1	Introduction to the Hospitality Industry	2
CUL ART 4	Food and Beverage Cost Technology	2
CUL ART 5	Commercial Food Preparation	4
CUL ART 7	Baking	3
•ELECTIVE	General Education Course	3
<u>Second Semester</u>		
CUL ART 9	Restaurant Operations	6.5
CUL ART 11	Menu Planning	1.5
CUL ART 13	Purchasing and Receiving	1.5
CUL ART 25	Food Service Management	2
•ELECTIVE	General Education Course	3
<u>Third Semester</u>		
CUL ART 3	Safety and Sanitation	2
CUL ART 19	Kitchen Management	6.5
CUL ART 27	Garde Manger	1.5
CUL ART 29	Beverage Management	1.5
H EC 93V	Work Experience: Home Economics	1
FCS 6	Nutrition	3
<u>Fourth Semester</u>		
•ELECTIVES	General Education Courses	16
<b>Total Units Required: 60</b>		

•Any courses selected in meeting the General Education Requirements for the associate degree.

## Major in Electronics/ Electrical Engineering Technology

<u>First Semester</u>		Units
ENGR 1	Introduction to Engineering and Technology	3
E TECH 11	Engineering Drafting	3
E TECH 12	Computer Aided Drafting	3
•CS 11	Computer Science Fundamentals	3
•ENG 1A	Written Communications	3
•SPCH 1A	Fundamentals of Speech	3
<u>Second Semester</u>		
ENGR 2	Engineering Graphics	4
ELECT 11	AC and DC Network Analysis	4.5
PHYS 10	Introduction to Physics	4
••MATH 87	Technical Mathematics	5
<u>Third Semester</u>		
E TECH 37	Electronic Drafting	3
•••E TECH	Elective	3
ELECT 12	Solid State Devices	6
•ART 4	Exploring Art	3
•POLSC 1	American Government and Institutions	3
<u>Fourth Semester</u>		
E TECH 20	Materials and Measurements	4
E TECH 46	Mechanical and Electrical Systems	3
E TECH 47	Control Systems	2
ELECT 13A	Integrated Circuits	4.5
•ECON 1A	Principles of Economics (Macro)	3
<b>Total Units Required: 70</b>		

•Recommended General Education electives  
 ••Recommended General Education Mathematics elective OR another mathematics elective among MATH 31, 36, 1, 2, 3, 4, 5.  
 •••E TECH elective selected in conjunction with E TECH faculty advisor.

## Major in Law Enforcement

<u>First Semester</u>		<b>Units</b>
A J 21	Criminal Justice in Society	3
A J 22	Concepts of Criminal Law	3
ENG 1A	Written Communications	3
SOCIO 1A	Introduction to Sociology	3
ELECTIVE	Elective Course	3
<u>Second Semester</u>		
A J 23	Principles and Procedures of the Justice System	3
A J 24	Legal Aspects of Corrections	3
HIST 17A	History of the United States	3
<b>OR</b>		
HIST 17B	History of the United States	3
<b>OR</b>		
POLSC 1	American Government and Institutions	3
SPCH 1A	Fundamentals of Speech	3
ELECTIVE	Elective Course	3
<u>Third Semester</u>		
A J 25	Criminal Investigation	3
A J 31	Report Preparation	3
MATH 80	Elementary Algebra	4
C S 11	Fundamentals of Computer Science	3
ELECTIVE	Elective Course	2
<u>Fourth Semester</u>		
A J 28	Juvenile Law and Procedures	3
<b>OR</b>		
A J 54	Introduction to Probation and Parole	3
A J 40	Community Relations	3
•GEN EDUC		
REQ	Course meeting the Humanities Requirement	3
••GEN EDUC		
REQ	Course meeting the Natural Science Requirement	3-4
ELECTIVE	Elective Course	3
<b>Total Units Required: 60-61</b>		

•A course selected from the Humanities area of the General Education Requirements for the Associate degree.

••A course selected from the Natural Science area of the General Education Requirements for the Associate degree.

## Major in Mechanical Engineering Technology

<u>First Semester</u>		<b>Units</b>
ENGR 1	Introduction to Engineering and Technology	3
E TECH 11	Engineering Drafting	3
E TECH 12	Computer Aided Drafting	3
•CS 11	Computer Science Fundamentals	3
•ENG 1A	Written Communications	3
•SPCH 1A	Fundamentals of Speech	3
<u>Second Semester</u>		
E TECH 20	Materials and Measurements	4
ENGR 2	Engineering Graphics	4
•PHYSC 10	Introduction to Physics	4
••MATH 87	Technical Mathematics	5
<u>Third Semester</u>		
E TECH 32	Technical Statics	3
<b>OR</b>		
E TECH 72	Applied Statics	3
E TECH 34	Machine Drafting	3
E TECH 35	Machine Design	3
MECH 15	Machine Tool Process	3
•ART 4	Exploring Art	3
•POLSC 1	American Government and Institutions	3
<u>Fourth Semester</u>		
E TECH 42	Technical Strength of Materials	3
<b>OR</b>		
E TECH 82	Applied Strength of Materials	3
E TECH 43	Principles of Fluid Mechanics	3
<b>OR</b>		
E TECH 83	Applied Fluid Mechanics	3
E TECH 45	Practical Machine Design	3
E TECH 46	Mechanical and Electrical Systems	3
E TECH 47	Control Systems	2
•ECON 1A	Principles of Economics (Macro)	3
<b>Total Units Required: 70</b>		

•Recommended General Education electives

••Recommended General Education Mathematics elective OR another mathematics elective among MATH 31, 36, 1, 2, 3, 4, 5.

## Major in NURSING Associate Degree Nursing (ADN)

Prerequisites		Units
ANAT 2	Anatomy and Physiology	6
MICRO 2	Introduction to Medical Microbiology	4
FCS 6	Nutrition	3

### First Semester

NURS 1	Fundamentals of Nursing	4.5
NURS 2	Introductory Medical-Surgical Nursing	4.5
NURS 3	Administration of Medications	3
ENG 1A	Written Communication	3

### Second Semester

NURS 4	Beginning Medical-Surgical Nursing	5.5
NURS 5	Mental Health Nursing	4
PSYCH 1	Introduction to Psychology	3
SOCIO 1B	Problems of a Changing Society	3

### Third Semester

NURS 6	Nursing the Childrearing Family	4
NURS 7	Intermediate Medical-Surgical Nursing	5.5
SPCH 1A	Fundamentals of Speech	3

### Fourth Semester

NURS 8	Nursing the Childbearing Family	4
NURS 9	Advanced Medical-Surgical Nursing	5
•ELECTIVE	See Group 1	3
••HUM	See Group 2	3 - 5

**Total Units Required: 71 - 73**

### •Group I (Electives)

(one course from the following)

HIST 17A	History of the U. S.	3
HIST 17B	History of the U. S.	3
HIST 27	Women in History	3
HIST 30A	African-American History	3
HIST 30B	African-American History	3

### ••Group 2 (Humanities)

(minimum of 3 units from the following)

ANTHR 4	Introduction to Linguistics	3
FOR LANG 1	Elementary	5
FOR LANG 51	Elementary	2.5
FOR LANG 52	Elementary	2.5
PHILO 6A	Introduction to Philosophy	3
PHILO 6B	Introduction to Philosophy	3

**NOTE:** All non-nursing courses may be taken prior to admission to the Nursing program.