Course Learning Outcomes Report

A J 021 Criminal Justice in Society

The student will acquire and demonstrate a greater knowledge of the American criminal justice system and its components. The student will be able to identify various subsystems, role expectations, and their interrelationships; theories of crime, punishments and rehabilitation; and ethics, education, and training for professionalism in the system.

The student will successfully pass quizzes and examinations.

The student will define the role of the criminal justice system and its components in relationship to the society at large in America through examination.

A J 022 Concepts of Criminal Law

The student will understand the historical development of criminal law.

The student will demonstrate the recognition of crime statutes and definitive code sections.

The student will analyze a crime scenario properly.

A J 023 Principles and Procedures of The Justice System

The student will understand the level of search that is applied to each encounter by using a word problem the student will determine which search level is applicable in written or oral responses.

The student will know the jail and booking process. The student will be able to detail all the steps and events in written or oral responses.

The student will recognize the steps taken by law enforcement to encounter citizens at different levels of authority by using a word problem the student will determine which level of force is applicable in written or oral responses.

The student will detail the pre-trial and trial sequences written or oral responses.

A J 024 Legal Aspects of Evidence

The student upon successful completion of the course will interpret and apply the rules of evidence in courtroom situations. The student will be assessed by a scoring rubric during a mock court scenario.

The student upon successful completion of the course will be able to satisfactorily identify types of evidence, standards of legal proofs, the proper procedure for admission of evidence and the methods of presentation of evidence.

A J 025 Criminal Investigation

The student will be able to conduct a criminal investigation in a simulated environment. The student will be able to assess and allocate resources, interview parties, collect and process evidence, complete a crime sketch and report.

The student will be able to record, identify, and preserve crime scene physical evidence. The student will be assessed by a series of quizzes and examinations that are multiple answer selection based as well as written responses.
Course Learning Outcomes Report

A J 028 Juvenile Law and Procedures

Upon successful completion of the course, the student will distinguish the differences between criminal and juvenile law. The student will satisfactorily pass a combination of oral scenario based skills testing as well as quizzes and examinations.

Upon successful completion of the course the student will recognize and interpret juvenile law systems.

A J 030A Critical Issues in The Justice System

The student will be able to respond to discussions of topical issues and show proper response to scenarios and practicum exercises. The student's responses are compared to a predetermined set of appropriate resolutions on a grading guide.

The student will be able to discuss policy and application of critical issues such as domestic violence training and response as well as the victimology of the issues.

A J 031 Report Preparation

The student will be able to demonstrate proper interview skills by using communicative skills and write the witness/suspect portion of the public safety report. ss demonstrated in a workbook assignment or timed performance scenario.

The student will record and distinguish appropriate information from the scene in the form of note taking as demonstrated in a workbook assignment or timed performance scenario.

The student will record a complete public safety report as demonstrated in a workbook assignment or timed performance scenario.

A J 040 Community Relations

The student will be able to define and give examples of Community Oriented Policing, Strategic Oriented Policing and Problem Oriented Policing. The student will successfully complete a comprehensive final exam using resources. the assessment will be questions as well as written verbal responses scored with a predetermined matrix.

The student upon successful completion of the course will understand the complex interactions between the community, its many groups and the policing agency. The student will successfully complete a comprehensive final exam using resources. the assessment will be questions as well as written verbal responses scored with a predetermined matrix.

A J 041 Narcotics Investigation and Control

The student will demonstrate the ability to analyze drugs using a standard drug testing system.

Upon successful completion of the course the student will recognize and distinguish controlled substances in their commonly seen or used forms.

A J 050H Special Studies: Administration of Justice

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge. The student and the instructor will develop a program of assessments to be evaluated by instructor utilizing the department rubric.
Course Learning Outcomes Report

A J 051 Introduction to Correctional Science

Outcome: The student will define the role of the criminal justice system and its components in relationship to the society at large in America through examination. Assessment: 70% of the students will score at 70% or higher on the examination.

Students will demonstrate their understanding of the difference between corrections, probation and parole by writing an opinion paper based on course content, explaining why they would and would not choose a career pathway in all of the specialties above. 80% of the students will achieve a Passing score on the rubric.

80% of the students will demonstrate their knowledge of the history and trends of corrections by scoring at least 70% on embedded test questions on the first exam.

A J 053 Correctional Interviewing and Interventions

The student, upon successful completion of the course will demonstrate interviewing and intervention techniques. The student will engage in role-playing scenarios, collaborate in small groups to resolve case studies, present to large group and meet the minimum satisfactory score from an established rubric.

Upon successful completion the student will understand the basics of correctional counseling techniques. The student will engage in role-playing scenarios, collaborate in small groups to resolve case studies, present to large group and meet the minimum satisfactory score from an established rubric.

A J 054 Introduction to Probation and Parole

The student will define and demonstrate the job tasks of a Parole/Probation officer from a field supervision aspect through examination and oral presentations.

Outcome: The student will define the role of probation and parole within the criminal justice system and evaluate its effectiveness in society through examination.

A J 055 Control and Supervision in Corrections

Student will be able to categorize the terminology, qualifications, and types of careers in Corrections and know what to expect everyday while performing the duties of correctional officer.

Student will chart the history and evolution of Corrections and its role in the Criminal Justice system

The student will define the role of the criminal justice system and its components in relationship to the society at large in America through examination.

A J 057 Legal Aspects of Corrections

The student will contrast the development of punishments from both a historical and contemporary perspective.

The student will discover historical framework, concepts, and precedents that guide correctional practice and develop their own perspective of the corrections environment, the civil rights of prisoners, and the responsibilities and the liabilities of corrections officials.

March 21, 2012
A J 069V Internship: Administration of Justice

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

A J 071 Basic Academy: Institutions

The student will have the ability to appropriately interact and counsel youthful offenders within the Department of Juvenile Justice.

The student will have the ability to employ acceptable levels of force to arrest and control individuals they encounter in the Law Enforcement Profession.

Upon successful completion of this course the student will have the ability to appropriately interpret and apply California and Federal law.

A J 072B The Local Justice System and Youth

While participating in a mock criminal trial, the student will identify the role evidence plays in prosecuting an offender. The student will successfully complete a comprehensive final exam using resources.

At the conclusion of the course, the student will be able to: Given a scenario, the student will identify the pleading, arraignment and trial processes involving a hypothetical offender. The student will successfully complete a comprehensive final exam using resources.

The student will recognize the importance of participating in the jury process to ensure that an offenders constitutional rights are protected under the law. The student will successfully complete a comprehensive final exam using resources.

A J 074 Corrections Officer Training

Students will demonstrate the proper methods for processing an inmate during the intake and release process.

The student will be able to use critical thinking skills to inmate situations and determine the appropriate actions to take to maintain the correctional facility.

The student will demonstrate knowledge of and effective methods to deal with potential fire hazards found in a mock facility.

The student will be able to choose the proper restraint for the situation depicted, demonstrate the application of the device as well as the proper removal.

Students will be able to use critical thinking to analyze disruptive inmate situations and determine the appropriate actions to take to maintain order in the correctional facility.

Students will demonstrate safe and effective methods to control a threatening and resisting inmate.

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A J 075 Instructor Development Certification

The student will model the desired behavior and performance of a facilitated learner-center environment instructor. The student will focus on the ultimate goal of training, which is to transfer knowledge, skills and abilities to students in a classroom in a manner that will be retained, replicated and used in the real-world environment.

A J 076 Basic Executive Protection Course

Conduct a thorough and complete search of a motor vehicle and a building for improvised explosive devices. Successfully demonstrate proficiency with defensive tactics movements in a simulated assault on a principal. Evaluate and process a hypothetical crime scene involving the crime of attempted kidnapping. Safely plan, organize and implement a motorcade transport of a principal from one location to another. Successfully demonstrate proficiency with a firearm by passing a comprehensive firearms training course.

A J 089A Arrest and Control: Penal Code 832

At the conclusion of the course, the student will be able to identify and apply the level and type of force that can lawfully be used during an arrest for a criminal offense. The student will successfully complete a comprehensive final exam using resources. The assessment will be questions and written verbal responses as well as performance scenarios. Given a scenario, the student will demonstrate the proper technique and conduct a lawful arrest and search of a criminal offender. The student will successfully complete a comprehensive final exam using resources.

The student will be able to record a written report concerning a hypothetical criminal event that conforms to accepted professional standards of content and quality. The student will successfully complete a comprehensive final exam using resources.

While participating in a mock criminal trial, the student will demonstrate the role evidence plays in prosecuting an offender. The student will successfully complete a comprehensive final exam using resources. The assessment will be a performance scenario.

A J 089B Firearms: Penal Code 832

The student upon completion of the 24 hour course will be able to demonstrate proficiency with a service handgun, meeting a 80% scoring standard. The student will be able to demonstrate the operational and technical tasks of a service handgun. The student will show the proper technique for loading, unloading and rendering safe a service handgun.

A J 090 Selected Topics: Administration of Justice

Course Outcome: The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.
A J 090L Instructor Development

The student will develop appropriate presentation skills and related instructional competencies.

A J 090N Corrections Officer Training Module 1

Students will demonstrate safe and effective methods to control a threatening and resisting inmate.

Students will be able to use critical thinking to analyze disruptive inmate situations and determine the appropriate actions to take to maintain order in the correctional facility.

Students will demonstrate the proper methods for processing an inmate during the intake and release process.

A J 090P Corrections Officer Training Module 2

Students will be able to choose the proper restraint for the situation depicted, demonstrate the application of the device as well as the proper removal.

Students will demonstrate knowledge of and effective methods to deal with potential fire hazards found in a mock facility.

Students will be able to use critical thinking skills to analyze security and supervision concerns and determine the appropriate actions to take to maintain the correctional facility.

A J 092V Work Experience: Correctional Science

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

A J 093 Basic Peace Officer Academy

Upon successful completion of this course the student will have the ability to appropriately interpret and apply California and Federal law.

Upon successful completion of this course of training the student will demonstrate the ability to safely handle firearms and use deadly force in accordance with current statutory and case law.

Upon successful completion of this course the student will have a basic understanding of the principles of lifetime fitness and personal wellness. The student will also attain an acceptable level of fitness to enter the Law Enforcement Profession.

The student will have the ability to employ acceptable levels of force to arrest and control individuals they encounter in the Law Enforcement Profession.

The student will have the ability to properly handle a vehicle in daily as well as emergency driving conditions and understand the laws associated with California Vehicle Code.

A J 094 Peace Officer Academy Orientation

the student will become familiar with the physical skills that are required.

The student will know the sequence and relationship between the learning domains.

the student will become familiar with the physical skills that are required. The student will demonstrate the knowledge of the dexterity and conditioning that will be achieved to be pass the academy.

The student will know the sequence and relationship between the learning domains.

The will understand the success criteria for graduation from the POST academy

The student learning outcome upon successful completion of this course will be to recognize the expectations of the POST Academy and identify those skills and behaviors necessary for success.

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A J 095A Basic Police Academy

The student will demonstrate acceptable levels of force to arrest and control individuals they encounter in the Law Enforcement Profession.

The student will appropriately interpret and apply California and Federal law specific to crimes against property, persons, and general criminal statutes.

The student will demonstrate the ability to use deadly force techniques in accordance with current statutory and case law.

The student will have a basic understanding of the principles of lifetime fitness and personal wellness.

A J 095B Basic Police Academy Intermediate

The student will safely handle firearms and use deadly force in accordance with current statutory and case law.

The student will appropriately interpret California and Federal law specific to crimes against children, sex crimes, and juvenile law.

The student will demonstrate acceptable levels of force to arrest and control individuals they encounter in the Law Enforcement Profession by utilizing intermediate techniques.

The student will properly handle a vehicle in daily as well as emergency driving conditions and understand the laws associated with California Vehicle Code.

The student will attain an acceptable level of fitness to enter the Law Enforcement Profession.

A J 095C Basic Police Academy Advanced

The student will safely handle advanced firearms, impact weapons and use deadly force in accordance with current statutory and case law.

The student will properly handle a vehicle in daily as well as emergency driving conditions, high risk stops, and vehicle pullovers. The student will also understand the laws associated with California Vehicle Code.

The student will appropriately interpret and apply California and Federal law specific to laws of arrest, search, seizure, and evidence.

The student will demonstrate acceptable advanced levels of force to arrest and control individuals they encounter in the Law Enforcement Profession.

The student will understand advanced principles of lifetime fitness and personal wellness. The student will also attain an acceptable level of fitness to enter the Law Enforcement Profession.

A-AUT 050 Automatic Transmissions and Transaxles

Student Learning Outcome: Students will complete a repair order (RO) following Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete transmission diagnosis and teardown inspection. Diagnosis of various systems will reveal and verify customer concerns of transmission failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by installing the finished transmission onto a transmission dynamometer or vehicle for presentation to customer or instructor. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The transmission or transaxle and finished repair order will be presented to the customer.
A-AUT 051 Manual Drivetrain and Axles

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete Transmission, transaxle, or differential assembly inspection teardown and repair. Diagnosis of various systems will reveal and verify customer concerns of noises or shift quality complaints as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by functioning the completed assembly and making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The transmission, transaxle, differential assembly, half shaft assembly, or driveline assembly, and finished repair order (RO) will be presented to the customer.

A-AUT 052 Engine Rebuilding

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete engine diagnosis and in vehicle inspection report and teardown inspection out of vehicle. Diagnosis of various systems will reveal and verify customer concerns of engine concerns as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by starting and drive testing the completed engine assembly and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle and finished repair order will be presented to the customer.

A-AUT 053 Brakes, Suspension, and Steering

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete braking and suspension system inspection. Inspection will include braking visual and functional drive test, suspension drive test and visual inspection of tires and suspension system components. Diagnosis of various systems will reveal and verify customer concerns of braking and suspension failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the RO the equipment used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by completing the drive test of braking system and suspension system and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle and finished repair order will be presented to the customer.
A-AUT 054 Starting, Charging, and Electrical Systems

Outcome: Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete electrical inspection on a vehicle. Inspection will include battery, starting, charging, lighting and accessories, and scan tool diagnostics. Diagnosis of various systems will reveal and verify customer concerns of electrical failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by functioning the repaired devices and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle and finished repair order will be presented to the customer.

A-AUT 055 Ignition Systems and Electronic Engine Controls

Students will complete a repair order following Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete baseline inspection on a vehicle. Inspection will include a complete emission, ignition and scan tool diagnostic. Diagnosis of various systems will reveal and verify customer concerns of engine performance failures as noted and documented in the technician area and customer area of the repair order. Students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle engine performance failures by successfully completing a smog check inspection, and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle inspection report and finished repair order will be presented to the customer.

A-AUT 056 Fuel Management and Computer Controls

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete baseline inspection on a vehicle. Inspection will include a complete fuel system, emission system, and scan tool diagnostic. Diagnosis of various systems will reveal and verify customer concerns of engine performance failures as noted and documented in the technician area and customer area of the repair order. Students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle engine performance failures by successfully completing a smog check inspection, and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle inspection report and finished repair order will be presented to the customer.
A-AUT 057 Air Conditioning, Heating, and Electrical Systems

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete heating ventilation air conditioning inspection on a vehicle. Inspection will include a complete functional, and operational inspection including scanner diagnostics. Diagnosis of various systems will reveal and verify customer concerns of heating ventilation air conditioning failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle heating ventilation air conditioning systems by functioning the repaired devices and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle and finished repair order will be presented to the customer.

A-CON 080A Mill Cabinet: Introduction

At the end of the course the student will be confident in basic math, to identify species of materials in our industry, and a basic knowledge of elementary blueprint reading. The student will demonstrate the knowledge and skills for performing projects requiring identification of industry materials, basic blueprint symbols, and wood species used as materials in the industry. The student will correctly identify 4 out of 5 industry requirements. 80 percent of the students will successfully complete this task.

At the end of the course the student will acquire a basic knowledge of adhesives, abrasives, and joints used in the fabrication of casework. The student will demonstrate the knowledge and skill required for project completion of casework utilizing the following methods of construction. The student will use adhesives, various joints, and abrasives to complete the assigned project. The student will correctly identify 4 out of 5 safety requirements. 80 percent of the students will successfully complete this task.

A-CON 080B Mill Cabinet: Fundamentals

At the end of the course the student will be able to use basic portable power tools and utilize various joint constructions to machine and assemble the economy grade cabinet project. The student will demonstrate critical thinking skills and knowledge to describe applications of joinery, safe use hand tools and complete assignments and/or tests. The student will diagnose 4 out of 5 viable industry scenarios while meeting industry standards. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to draw and/or detail an economy grade cabinet project by demonstrating the skills used for power hand tools, and interpret symbols and line work of basic blueprints for construction. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests. The student will diagnose 4 out of 5 viable industry scenarios while meeting industry standards. 80 percent of the students will successfully complete this task.
Course Learning Outcomes Report

A-CON 081A Mill Cabinet: Basic Woodworking

At the end of the course the student will be able to identify, describe safe use of advance machinery, such as band saws, routers, grinders, sanders to machine and assemble a custom grade cabinet project by utilizing shop drawings, sections, and details. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

At the end of the course the student will demonstrate skills in advance math, square root, volumes, angles, and advanced machine operations. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

A-CON 081B Mill Cabinet: Layout and Benchwork

At the end of the course the student will be able to identify, describe and demonstrate procedures and techniques used to fabricate a high pressure laminate countertop. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify symbols and language used in advance blueprint reading and stock billing. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

A-CON 082A Mill Cabinet: Materials and Application

At the end of the course the student will be able to identify appropriate grade lumber in installation of residential cabinetwork, and wall paneling. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify, describe appropriate procedures for use of stain and/or other clean lacquer and opaque finishes. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

A-CON 082B Mill Cabinet: Commercial Cabinetry

At the end of the course the student will be able to analyze requirements for commercial cabinets and store fixtures, compare and contrast the different standards for commercial and residential millwork. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify and interpret pictorial drawings, comprehend the appropriate use and operation of various machines to fabricate a premium grade cabinet. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.
Course Learning Outcomes Report

A-CON 083A Mill Cabinet: Design, Layout, and Production

The student will be able to fabricate templates for projects that have form designs, analyze drawings to determine appropriate materials for construction process. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

The student will be able to glue and assemble a free form project and identify, describe the sequence of operations that must be performed from the beginning to the end of the project. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

A-CON 083B Mill Cabinet: Project Planning

The student will have the ability to be able develop a construction schedule, determine a sequence of operations and fabricate a showcase with a glass top and front. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

The student will have the ability and knowledge of the different grades of cabinets and fixtures to perform the preparations to layout and prepare final project. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a cabinet project. 80 percent of the students will successfully complete this task.

A-CON 100 Related Math and Rigging

At the completion of the course the student will be able to draw location of piping used in a building plan. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 100A Introduction to Plumbing

At the completion of the course a student will be able to demonstrate the proper use of tools used in the plumbing trades. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course a student will be able to demonstrate the proper use of safety equipment. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course a student will be able to demonstrate the application of materials used in pipefitting and plumbing. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.
Course Learning Outcomes Report

A-CON 100B Related Math and Rigging

At the completion of the course the student will be able to use math to correctly calculate the length of pipe for a plumbing job. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course the student will be able to calculate the fall of a waste pipe from evaluation on a building plan. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course the student will be able to analyze an electrical circuit. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 100C Drawing, Plan Reading and Science

At the completion of the course the student will be able to design a plumbing schematic for a commercial building. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course the student will be able to design a plumbing schematic for a commercial building.

A-CON 100D Welding

At the completion of the course the student will be able to weld using proper electrodes and procedures. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course the student will be able to weld two pipes together to meet industry standards.

At the completion of the course the student will be able to weld two pipes together to meet industry standards. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 101A Water Supply, Pumps and Installations

At the completion of the course the student will be able to calculate the amount of water that will flow through a 3” pipe with different pressure. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

At the completion of the course the student will be able to from a building plan calculate the size of pipe to be used for water the supply system. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

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A-CON 101B Gas Installation and Drainage

Describe the proper installation procedure for a gas furnace according to uniform building code. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Calculate the pressure drop for 1” schedule 40 steel pipe 100’ long based on a .60 specific gravity gas. Given a reference manual. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Describe the components of a drainage system. Given set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

The gas pipe sizes for a commercial installation. Given the number of appliances and BTU per hour requirements. Assessment: The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Identify and describe the function of pipe, fittings and fixtures used in a drainage system. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Calculate the run and fall for a drainage system. Given a set of construction prints. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 101C Advanced Plan Reading, Fixtures and Appliances

Determine the required plumbing fixtures and appliances needed for construction project. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Outline the installation procedure for plumbing fixtures and appliances. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Determine the tools and equipment required to install different plumbing fixtures and appliances. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Layout the gas venting system. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Compare the different requirements and gas system design for a natural gas and liquid petroleum gas systems. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.
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Describe the code requirement and safety considerations for the installation of a steam heating system. Given the code book and construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 101D Codes and Steam Systems

Utilize the plumbing code book to determine the requirements for a variety of plumbing projects. Given construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Describe the installation procedures for steam heating system. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Sketch the components and devices of a basic steam system. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Describe the major code requirements for the installation of a solar heating system according to the uniform building code. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Describe the installation procedures for steam heating system. Given a set of construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-CON 102 Pipe Fitting Calculations

Calculate circular measurements using algebraic formulas for pipe fitting applications. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Calculate the angles required for a medical gas installation. Give the installation pipe layout. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Sketch the pipe fitting layout for installation project and list the pipe fitting requirements. Given a set of drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Determine the pipe fitting angles for different installation applications and designs using trigonometry. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Sketch a piping layout for a medical gas system. Given construction drawings according to code requirements. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.
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Describe the procedure for testing a medical gas system according to the code. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Demonstrate medical gas brazing techniques and meet certification requirements. Given materials and brazing equipment. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

Prepare a list of material and supplied necessary to fabricate and install a medical gas system. Given construction drawings. The student will demonstrate critical thinking skills and knowledge to complete assignments and/or tests while meeting industry standards. The student will identify 4 out of 5 industry scenarios in a plumbing and/or pipe fitting project. 80 percent of the students will successfully complete this task.

A-ELE 070A Introduction to Electricity

A student will be able to identify meters associated with the circuitry for Ohm's Law. The student will complete a written assignment indicating proper usage of the individual meters associated with the circuitry for Ohm's Law. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

The student will prepare a report and presentation of materials interpreted from electrical drawings. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 070B Electrical Fundamentals

A student will be able to identify branch voltages and currents associated with combination circuit. The student will complete a written assignment indicating proper usage of the meters used for a combination circuit. 70 percent of the students will achieve 70 percent or higher on the written assignment.

Student will develop and present drawings of parallel and series circuits identifying each component and process. 4 out of 5 components will be successfully identified and 80 percent of the students will achieve this goal.

A-ELE 071A Electrical Circuits and Code

The student will demonstrate how to calculate voltage drop over an alternating circuit. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A student will be able to identify tools associated with the trade. The student will complete a written assignment indicating proper usage of the individual tools of the trade. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 071B Electrical Circuits and Equipment

The student will demonstrate the appropriate interpretation of commercial construction designs for inductance, capacitance, and transformers. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A student will be able to identify electrical test equipment associated with the trade. The student will complete a written assignment indicating proper usage of the individual tools of the trade. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
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A-ELE 072A Electrical Motors

A student will be able to identify components and describe the function of electrical motors associated with the electrical industry. The student will complete a written assignment indicating proper usage of the individual electrical motors in industry. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

The student will demonstrate the safety practices of high voltage and low voltage wiring systems. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 072B Electrical Motor Control Systems

A student will be able to identify the fundamentals of three-phase transformers, direct current motors, motor starters, control systems, air conditioning and refrigeration, and restaurant drawings. The student will complete a written assignment indicating proper usage of the individual tools that the electrician would use for installation of three-phase transformers, direct current motors, motor starters, control systems, air conditioning and refrigeration, and restaurant drawings. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

The student will demonstrate the function and components of a motor control system and illustrate with a flow chart. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 073A Electrical Motor Control Circuits

A student will be able to describe advanced electrical principles, motor controls, semiconductors, electronic devices, and refrigeration system installation. The student will complete a written assignment indicating familiarity with advanced electrical principles, motor controls, semiconductors, electronic devices, and refrigeration system installation. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 073B Motor Control Systems

A student will be able to describe the application, use and installation of motor control systems. The student will complete a written assignment indicating proper application, use and installation of motor control systems. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 074A Programmable Logic Controllers and Variable Frequency Drives

A student will be able to describe the fundamentals of programmable logic controllers, digital logic, variable frequency drives, process control, and electronic control devices. The student will complete a written assignment indicating satisfactory knowledge of programmable logic controllers, digital logic, variable frequency drives, process control, and electronic control devices. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 074B Advanced Electrical Applications

A student will be able to identify tools and equipment associated with advanced electrical applications.
A-ELE 075A Basic Electricity

A student will be able to identify meters associated with the circuitry for Ohm's Law. The student will complete a written assignment indicating proper usage of the individual meters associated with the circuitry for Ohm's Law. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 075B Advanced Electricity

Student will be able to identify the ohmic values of resistance and inductance in an alternating current circuit. These ohmic values will be assessed through practical application of meter usage demonstrated in a lab. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 075C Transformers and Polychlorinated Biphenyl

Student will hook up single phase transformer in additive condition. Student will show additive condition through meter reading in the lab. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 075D Protective Relaying

A student will be able to identify the various types of protective relays discussed in class and the type of protection provided. The student will complete a written assignment indicating proper usage of the various types of protective relays discussed in class and the type of protection provided. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 075E High Voltage Switching

Student will hook up single phase transformer in additive condition. Student will show additive condition through meter reading in the lab. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 075F Electrical Motors and Controls

A student will be able to identify the various types of logic associated with motor controls. The student will complete a written assignment indicating proper usage of the various types of logic for individual circuits and applications. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

A-ELE 076 Selected Topics: Electrical Apprenticeship

Demonstrate knowledge of specialized areas in electrical technology.

A-ELE 077A Residential Wireman: Introduction

Describe the use and application of electrical tools and materials.
Describe safety precautions when working with electricity, tools, materials and any work performed on the job.
Course Learning Outcomes Report

A-ELE 077B Residential Wireman: Direct Current

Calculate Current, Power, Resistance & Voltage for series circuits using OHM's Law.

A-ELE 077C Residential Wireman: Alternating Current

Sketch Electrical branch circuits from blueprints.
Calculate wire sizes for branch circuits.

A-ELE 077D Residential Wireman: Wiring Circuits & Methods

Determine the requirements for a Service Entrance Equipment according to the NEC.
Identify the boxes and fittings required for a residential plan according to the NEC.

A-ELE 077E Residential Wireman: Code & Complex Circuits

Describe the National Electrical Code requirements for overcurrent protection devices in residential circuits.
Calculate electrical loads for an electrical circuit based on the National Electrical Code requirements.

A-ELE 077F Residential Wireman: Advanced Code & Special Circuits

Describe the overcurrent protection and ground fault protection required for swimming pools, fountains, solar, photovoltaic residential electrical circuits.
Utilize National Electrical Code to determine the requirements for swimming pools, fountains, security, data communication, direct broadcast satellite (DBS), solar, photovoltaic, fiber optics and Local Area Networks.

A-ELE 077G Advanced Electrical Applications

A student will be able to identify tools and equipment associated with advanced electrical applications.

A-IND 072A Introduction to Apprenticeship

Student will be given a real world scenario of an industrial accident. The student will perform a hands on demonstration and written flow sheet to identify the safety requirements and procedures which should have taken place to prevent the accident. The student will perform this activity with 100 percent accuracy. 70 percent of students will achieve this outcome.

The student will identify the the key standards, competencies and requirements to complete the apprenticeship program on a multiple choice test. 70 percent of the students will achieve 70 percent or higher score on the test.

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A-IND 076 Applied Technical Mathematics

The student will demonstrate basic knowledge in mathematics, algebra and basic trigonometry. A multiple choice test will be used to assess the knowledge and understanding of the key mathematical theories, competencies and requirements. 70 percent of the students will achieve 70 percent or higher score on the test.

The student will demonstrate the necessary mathematical skills to successfully complete hydroelectric power courses. A multiple choice test will be used to assess the knowledge and understanding of the key standards, competencies and requirements. 70 percent of the students will achieve 70 percent or higher score on the test.

A-IND 077A Mechanical Fundamentals

The student will be able to demonstrate the basic knowledge in the characteristics of matter, understand the laws of motion, and the characteristics of fluid behavior. Knowledge and understanding of the key standards, competencies and requirements to complete the apprenticeship program on a multiple choice test. 70 percent of the students will achieve 70 percent or higher score on the test.

A-IND 077B Bearings, Pumps, and Turbines

By the end of the semester the student will demonstrate and identify the effects of friction, cavitation and vibration bearings, pumps, and turbines. A multiple choice test will be used to assess and demonstrate the knowledge and understanding of the key standards, competencies and requirements to complete the apprenticeship program. The student will identify 4 out of 5 types of friction effects on various equipment, 80 percent of the students will successfully complete this task.

By the end of the semester the student will demonstrate and identify the associated applications for various types of pumps in the field. A multiple choice test will be used to assess and demonstrate the knowledge and understanding of the key standards, competencies and requirements to complete the apprenticeship program. The student will identify 4 out of 5 types of pump applications, 80 percent of the students will successfully complete this task.

A-IND 077C Motors and Generators

At the end of the course the student will be able to identify principles of construction of large motors and generators. A multiple choice test will be used to assess the knowledge and understanding of the principles of construction of large motors and generators rated at 10,000 horsepower. The students will correctly identify 4 out of 5 principles of construction. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to demonstrate knowledge in theory and application of alternating current motors and three phase generators. A multiple choice test will be used to assess the knowledge and understanding of the key standards, competencies and requirements to complete the apprenticeship program. The students will correctly identify 4 out of 5 theories of alternating current. 80 percent of the students will successfully complete this task.
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A-IND 077D Plant Auxiliary Equipment

By the end of the course the student will be able to operate and identify the applications for hydraulic and pneumatic control systems for a hydro-electric plant. The student will demonstrate their knowledge and skill to identify the applications for hydraulic and pneumatic control systems in a hydro-electric plant. The students will correctly identify 4 out of 5 principles of hydraulic applications. 80 percent of the students will successfully complete this task.

By the end of the course the student will be able to operate and the application of valves in a hydro-electric plant. The student will demonstrate their knowledge and skill to describe the applications for different types of valves used in a hydro-electric plant. The students will correctly identify 4 out of 5 principles of hydraulic valves. 80 percent of the students will successfully complete this task.

A-IND 077E Hydraulics

By the end of the course the student will be to interpret symbols and mechanical schematics. The student will demonstrate knowledge and skill to read mechanical schematics and apply critical thinking skills for problem solving. The students will correctly identify 4 out of 5 principles of mechanical schematics. 80 percent of the students will successfully complete this task.

By the end of the course the student will be able to troubleshoot and problem solve various situations on hydraulic systems. The student will demonstrate critical thinking skills and knowledge of various techniques for problem solving and troubleshooting hydraulic systems. The students will correctly identify 4 out of 5 principles of hydraulic troubleshooting. 80 percent of the students will successfully complete this task.

A-IND 077F Pneumatics

At the end of the course the student will assemble pneumatic systems as well as operate and problem solve in real time scenarios. The student will demonstrate critical thinking skills and knowledge of pneumatic systems to problem solve real time scenarios as well as identify and assemble pneumatic system components. The students will correctly identify 4 out of 5 principles of pneumatic systems. 80 percent of the students will successfully complete this task.

At the end of the course the student will read and identify symbols of mechanical schematics. The student will demonstrate the skill and ability to identify, interpret mechanical schematics for pneumatic systems. The students will correctly identify 4 out of 5 principles of mechanical schematics. 80 percent of the students will successfully complete this task.

A-IND 077G Governor Systems

At the end of the course the student will be able to analyze and troubleshoot the performance issues of governor system and electrical generating plant. The student will demonstrate the knowledge and critical thinking skills by identifying and explaining the function of components of governor systems, troubleshoot real world scenarios and explain safety procedures for solving the problem. The students will correctly identify 4 out of 5 principles of governor systems. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify the functions of governors in a generating plant. The student will demonstrate the knowledge and critical thinking skills of the function, operation and maintenance of governors in a generating plant. The students will correctly identify 4 out of 5 principles of Governor Systems. 80 percent of the students will successfully complete this task.
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A-IND 077H Computers in Hydro-Electric Plants

By the end of the semester the student will be able to identify the appropriate commercial software applications for plant operation and maintenance in a hydro-electrical plant. The student will be able to demonstrate the knowledge and skills in commercial applications for Microsoft spreadsheets, word processing, reports, desktop accessories for use in a hydro-electrical plant operations and maintenance. The students will correctly identify 4 out of 5 principles of software applications. 80 percent of the students will successfully complete this task.

By the end of the course the student will be able to have a basic understanding of concepts of computers used in an industrial environment. The student will be able to demonstrate the knowledge and basic concepts for multiple uses of computers in hydro-electric plants. The students will correctly identify 4 out of 5 principles of computers. 80 percent of the students will successfully complete this task.

A-IND 077J Water Aqueduct Systems

By the end of the course the student will be to operate and patrol a water system. The student will demonstrate the knowledge and skills to monitor water quality, identify operating procedures, measure water flow and explain the daily operations. The students will correctly identify 4 out of 5 principles of operation of a water system. 80 percent of the students will successfully complete this task.

By the of the course the student will be able to identify water treatment requirements and political concerns for management of a statewide water system. The student will demonstrate the knowledge and critical thinking skills in regard to the economic, environmental, and political concerns for the management of a statewide water system. The students will correctly identify 4 out of 5 principles of management of water systems. 80 percent of the students will successfully complete this task.

A-IND 077K Fundamentals of Thermodynamics

By the end of the course the student will be able to identify the properties of gases and the effects of evaporation on temperature. The student will be able to demonstrate the knowledge and skills to identify the effects on evaporation from temperature and the properties of gases as it applies to refrigeration and air conditioning systems. The students will correctly identify 4 out of 5 principles of gases. 80 percent of the students will successfully complete this task.

By the end of the course the student will be able to identify the effects of heat on matter, methods of heat transfer, and calculating heat measurement. The student will be able to demonstrate the knowledge and skills to calculate heat measurement, identify the effects of heat on matter as well as various methods of heat transfer as it applies to refrigeration and air conditioning systems. The students will correctly identify 4 out of 5 principles of heat transfer. 80 percent of the students will successfully complete this task.

A-IND 077L Project Control and Power Contracts

By the end of the course the student will be able to understand plant operations documentation and contract management. The student will demonstrate the knowledge and critical thinking skills to explain the components of a power contract, analyze system wide state water project communication system as well as the ability to make recommendations for procedure improvement. The students will correctly identify 4 out of 5 principles of documentation management. 80 percent of the students will successfully complete this task.

By the end of the course the student will be able to identify the procedures for operation of a California Aqueduct. The demonstrate the knowledge and critical thinking skills to implement appropriate procedures for the operation of a California Aqueduct. The students will correctly identify 4 out of 5 principles of aqueduct operation. 80 percent of the students will successfully complete this task.
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A-IND 077M Air Conditioning

At the end of the course the student will be able to apply troubleshooting techniques for basic air conditioning systems. The student will be able to demonstrate knowledge and critical thinking skills to apply troubleshooting techniques for basic air conditioning systems for heat theory, thermodynamics, properties of refrigeration gases and the state of matter from a liquid to a gas. The students will correctly identify 4 out of 5 principles of basic air conditioning systems. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify components and system design of the air conditioning system. The student will be able to demonstrate the skills and critical thinking skills to troubleshoot and make recommendations for system design and components of an air conditioning system. The students will correctly identify 4 out of 5 principles of system design. 80 percent of the students will successfully complete this task.

A-IND 077N Electro-Mechanical Print Reading

At the end of the course the student will be able to identify and explain electrical and mechanical drawing symbols. The student will be able to demonstrate knowledge and critical thinking skills to interpret, identify various electrical and mechanical drawing symbols for schematics, drawings and diagrams. The students will correctly identify 4 out of 5 principles of electrical and mechanical schematic symbols. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to analyze electrical circuits and construct basic electrical drawings, schematics, and wiring diagrams for a power plant. The student will be able to demonstrate the skill, knowledge and critical thinking skills to construct and trace prints for a power plant, troubleshoot electrical circuit problems for a power plant. The students will correctly identify 4 out of 5 principles of electrical circuits. 80 percent of the students will successfully complete this task.

A-IND 078A Defensive Driving

At the end of the course the student will be able to identify operation and maintenance rules for State of California vehicles as well as explain State of California commercial vehicular codes. The student will demonstrate knowledge and critical thinking skills for operation and maintenance for State of California vehicles and the driving laws for commercial vehicular codes. The students will correctly identify 4 out of 5 principles of operation and maintenance of State vehicles. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify and apply defensive driving techniques. The student will demonstrate the knowledge and critical thinking skills for identifying and applying defensive techniques of driving to reduce the incidents and risk of vehicular accidents. The students will correctly identify 4 out of 5 principles of defensive driving. 80 percent of the students will successfully complete this task.

A-IND 078B Heavy Truck Operation

At the end of the course the student will be able to identify the weight and load limitations of heavy duty trucks. The student will demonstrate the knowledge and critical thinking skills to interpret, analyze, and apply the laws and regulations pertaining to heavy duty trucks used by the State of California Department of Water Resources. The students will correctly identify 4 out of 5 principles of heavy duty truck laws and regulations. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify the different types of trucks and their maintenance requirements. The student will demonstrate knowledge and critical thinking skills to apply principles of safe operation to various types of heavy duty trucks and well as required maintenance. The students will correctly identify 4 out of 5 principles of maintenance of heavy duty trucks. 80 percent of the students will successfully complete this task.
A-IND 078C Diesel and Small Gasoline Engines

At the end of the course the student will be able to identify the basic functions of four-stroke and two-stroke gasoline engines and diesel engines. The student will demonstrate a knowledge and critical thinking skills to compare and contrast operation of gasoline and diesel engines and troubleshoot minor problems in the field. The students will correctly identify 4 out of 5 principles of function and operation of two-stroke and four-stroke engines. 80 percent of the students will successfully complete this task.

At the end of the course the student be able to identify regular maintenance procedures for gasoline and diesel engines, as well as chain saws. The student will demonstrate the knowledge and critical thinking skills to perform regular maintenance on gasoline, diesel, and chain saws used in the field for the State Department of Water Resources. The students will correctly identify 4 out of 5 principles of four-stroke and two-stroke engines. 80 percent of the students will successfully complete this task.

A-IND 078D Surveying and Flood Control Systems

At the end of the course the student will be able to determine grade using surveying practices, interpret symbols on field grade stakes, and set up surveying equipment. The student will demonstrate knowledge and critical thinking skills for interpreting symbols on field grade stakes, identify procedures for set up and utilization of surveying equipment in the field, and determine grade on site. The students will correctly identify 4 out of 5 principles of utilization of surveying equipment symbols. 80 percent of the students will successfully complete this task.

Outcome: At the end of the course the student will be able to describe inspection and control procedures for dams and levees. The student will demonstrate knowledge and critical thinking skills to implement inspections and control procedures for levee and dams as well as identify corrective solutions for levee and dam failure. The students will correctly identify 4 out of 5 principles of levee and dams failures. 80 percent of the students will successfully complete this task.

A-IND 078E Soils, Asphalt, and Concrete

At the end of the course the student will be able to identify types of soils, soil properties, and construction uses in the field. The student will demonstrate the knowledge and critical thinking skills of the principles of soil mechanics and the construction uses in the field. The students will correctly identify 4 out of 5 principles of soil types and properties. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to identify types of asphalt, asphalt production and application, the mechanics of concrete, concrete preparation and finishing procedures. The student will demonstrate the knowledge and critical thinking skills to describe and analyze the mechanics of concrete, concrete preparation, concrete finishing, types of asphalt and asphalt application processes in the field. The students will correctly identify 4 out of 5 principles of application of concrete and asphalt. 80 percent of the students will successfully complete this task.

A-IND 078F Environmental Awareness

At the end of the course the student will be able to identify endangered species, define laws to related to endangered species and general practices related to work around endangered species. The student will demonstrate knowledge and critical thinking skills to analyze laws related to endangered species, general practices related to work around endangered species as well as understanding the laws under the Endangered Species Act. The student will be able to identify 4 out of 5 principles of the Endangered Species Act. 80 percent of the students will successfully complete this task.

At the end of the course the student will be able to developed plans, perform duties without violating environmental laws. The student will demonstrate knowledge and critical thinking skills to avoid risks to the employee and employer of violating any environmental laws, develop alternative plans and perform necessary duties in the field. The student will correctly identify 4 out of 5 environmental laws. 80 percent of the students will successfully complete this task.
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A-IND 078G Power Lift and Four-Wheel Drive Units

At the end of the course the student will be able to identify different types of power lift equipment, maintenance and safe operation practices. Student will demonstrate knowledge and critical thinking skills to identify, describe on the job site practices for safe operation and maintenance of different types of power lift equipment used by the State of California Department of Water Resources. The student will identify 4 out of 5 principles of power lift equipment. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to analyze functions of different components power lift and four-wheeled drive equipment. The student will demonstrate knowledge and critical thinking skills to analyze functions of different components of power lift and four-wheeled drive equipment in the field as well as operate the same equipment in a safe manner. The student will identify 4 out of 5 principles of power lift equipment. 80 percent of the student will successfully complete this task.

A-IND 078H Protective Coatings

At the end of the course the student will be able to identify and describe types of corrosion and causes. The student will demonstrate the knowledge and critical thinking skills to develop solutions for prevention of corrosion on equipment. The student will identify 4 out of 5 principles of industrial corrosion. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify and describe the processes for application of paint and protective coatings to prevent corrosion. The student will demonstrate the knowledge and critical thinking skills for identifying specific paint and protective coatings, preparation of surfaces, maintenance and handling of application equipment. The student will identify 4 out of 5 principles and procedures of industrial paint and protective coatings. 80 percent of the student will successfully complete this task.

A-IND 078J Small Boat Handling

At the end of the course the student will be able to identify safe trailering practices and identify motor types and maintenance. The student will be able to demonstrate knowledge and critical thinking skills to identify boat motor types and maintenance, as well as trailer components and safe trailering practices. The student will identify 4 out of 5 principles of two stroke motor maintenance. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify boat nomenclature and components, and boat operation. The student will demonstrate knowledge and critical thinking skills for boat handling and maneuvering, interpretation of waterway channel markers and traffic signs, boat nomenclature and components for maintenance. The student will identify 4 out of 5 principles of boating safety and maintenance. 80 percent of the student will successfully complete this task.

A-IND 078K Mobile Cranes and Rigging

At the end of the course the student will be able to identify interpret OSHA and CAL OSHA requirements for the safe operation of rigging, types of rigging equipment used, as well as describe set up procedures for different positions in lifting. The student will demonstrate knowledge and critical thinking skills basic procedures and limitations of rigging, inspection and maintenance requirements as dictated by OSHA and State of California and the ability to describe and maintenance of rigging components. The student will identify 4 out of 5 principles of Cal OSHA requirements. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify and interpret OSHA and CAL OSHA requirements for the safe operation of cranes, identification of mobile crane components, classification and construction. The student will demonstrate knowledge and critical thinking skills of basic procedures and limitations of mobile cranes, inspection and maintenance requirements as dictated by OSHA and State of California and the ability to describe and maintenance mobile crane components. The student will identify 4 out of 5 principles of crane operation. 80 percent of the student will successfully complete this task.
Course Learning Outcomes Report

A-IND 078L Motor Grader Operation

At the end of the course the student will be able to identify the components of motor graders and their functions, explain the operation, uses and limitations. The student will demonstrate knowledge and critical thinking skills for safe operation of motor graders, explain the function of components and limitations and provide information for practical uses in the field. The student will identify 4 out of 5 principles of motor grader components. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify motor grader inspections and maintenance requirements. The student will demonstrate knowledge and critical thinking skills to perform inspection of motor graders and implement maintenance requirements. The student will identify 4 out of 5 principles of motor grader equipment. 80 percent of the student will successfully complete this task.

A-IND 078M Tractor Operations, Trenching, and Shoring

At the end of the course the student will be able to identify various components of tractors and operations of trenching and shoring practices. The student will demonstrate knowledge and critical thinking skills to perform safe operation of tractors, and trenching and shoring performance in the field. The student will identify 4 out of 5 principles of tractor components and operations. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify procedure and requirements for tractor inspection, service, maintenance and identify various techniques for shoring and trenching in the field. The student will demonstrate knowledge and critical thinking skills to perform inspections, service and maintenance of tractors, identify, explain and perform various trenching and shoring techniques used in the field. The student will identify 4 out of 5 principles of tractor maintenance and shoring techniques. 80 percent of the student will successfully complete this task.

A-IND 078N Pesticides and Herbicides

At the end of the course the student will be able to identify the various application techniques and equipment, maintenance, and mixing ratios for the pesticides and herbicides used. The student will be able to demonstrate knowledge and critical thinking skills to perform preparation procedures for mixing, agitation ratios of herbicides and pesticides, perform routine maintenance and set up procedures for applicators used in the field. The student will identify 4 out of 5 principles of application techniques. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to identify various types of herbicides and pesticides and calculate the proper application amount. Assessment: The student will demonstrate knowledge and critical thinking skills to perform appropriate calculation for safe application of pesticides and herbicides and determine the appropriate pesticide and herbicide to be used in the field. The student will identify 4 out of 5 principles of pesticide and herbicide use. 80 percent of the student will successfully complete this task.

A-IND 078P Power Actuated Equipment

At the end of the course the student will be able to explain techniques of safe operation and requirements, identify conditions for appropriate use, and principles of operation of fastening tools in the field. The student will be able to demonstrate knowledge and critical thinking skills to perform safe operation procedures, identify safety requirements, identify conditions which the equipment cannot be used. The student will identify 4 out of 5 principles of power actuated equipment. 80 percent of the student will successfully complete this task.

At the end of the course the student will be able to disassemble, clean, and reassemble equipment, disarm a misfired booster safely and qualify as a licensed operator. The student will be able to demonstrate knowledge and critical thinking skills to perform the procedures for safe disassembly, cleaning, reassembly of required equipment, demonstrate the procedures for disarmament of a misfired booster and qualify as a licensed operator. The student will identify 4 out of 5 principles of power actuated equipment. 80 percent of the student will successfully complete this task.

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Course Learning Outcomes Report

A-MEC 074A Basic Welding

At the end of the course the student will be able to identify and interpret safety procedures as pertaining to use of various welding techniques and theories.

At the end of the course the student will be able to demonstrate welding and cutting skills, select welding electrodes for special welding applications, appropriate currents for welding.

A-MEC 074B Machine Shop

At the end of the course the student will be able to utilize cutting tools, operate various machines properly, work layouts and measurements. The student will demonstrate the knowledge and skills of the principles of metal removal, tool sharpening techniques, perform precision measurements, identify and interpret blueprints, operate milling machines, lathes, drill presses, and grinders. The student will be able to complete 4 out of 5 problems on the grading rubric. 80 percent of the students will complete this task.

At the end of the course the student will be able to demonstrate safety procedures for operation of all machine shop equipment and identify the appropriate clothing while working in a shop. The student will demonstrate the knowledge and skills to identify warning signs, implements safety procedures and benefit of appropriate clothing used in all machine shops. The student will identify at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will complete this task.

AGBUS 010 Agricultural Accounting

The student will demonstrate proper usage of the steps of the accounting by preparing financial statements on Practice Sets.

AGBUS 012 Agricultural Economics

The student will determine price equilibrium by constructing and solving supply and demand schedules on Problems Sets.

AGBUS 013 Agriculture and Natural Resource Mathematics

The student will successfully determine the force available from a hydraulic lift piston using an Area measurement calculation.

AGBUS 015 Agribusiness Computer Applications

The student will develop electronic worksheets designed to produce financial statements commonly used by Agribusiness management.

AGBUS 046 Agricultural Marketing

The student will demonstrate the ability to collect market information, analyze and formulate a current Market Situation and Outlook Report for an agricultural commodity of their choice.

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AGBUS 050H Special Studies: Agriculture Business

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

AGBUS 069V Internship: Agricultural Business

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

AGBUS 073 Agriculture and Natural Resource Mathematics

The student will successfully determine proper mixes to obtain a desired result
The student will successfully determine the volume of partially filled cylinder laying on its side.

AGBUS 075 Selected Topics: Agriculture

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

AGBUS 096V Work Experience: Agricultural Business

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

AGEGR 021 Agricultural Welding

Students will be able to perform a flat downhand butt weld with 100% penetration

AGEGR 030C Industrial Equipment: Electrical and Electronic Systems

Distinguish between the positive battery post and the negative battery post using a digital multimeter.

AGEGR 033 Equipment Maintenance and Operation

Demonstrate the proper operation of a fork lift.

AGEGR 064 Basic Engines

Demonstrate the proper usage of a standard outside micrometer.
Course Learning Outcomes Report

AGEGR 066 Compact Diesel Engines

Student will determine if a crankshaft is reusable
Student will properly time the fuel injection pump to the crankshaft.

AGEGR 069V Internship: Agricultural Engineering

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

AGEGR 080 Caterpillar Service Industry

Demonstrate the proper use of a standard outside micrometer.

AGEGR 081 Caterpillar Engine Fundamentals

Demonstrate the proper usage of a standard outside micrometer.

AGEGR 082 Fundamentals of Hydraulics

Properly identify the three pump types.

AGEGR 083 Caterpillar Engine Fuel Systems

Demonstrate the fuel setting procedure on a 3406B new scroll fuel system.

AGEGR 084 Fundamentals of Electrical Systems

Student will determine if a starting relay is operating properly in a circuit using Voltage drop readings from a Digital Volt Ohm Meter

AGEGR 085 Caterpillar Air Conditioning

Upon successful completion of this course, the student will according to industry standards be able to: 1. Explain the basic air conditioning principle of operations. 2. Identify a/c system components and explain operation. 3. Hook up and use the manifold gauge in system diagnostics.

AGEGR 086 Fundamentals of Caterpillar Power Trains

The student will be able to properly assemble a planetary transmission.

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Course Learning Outcomes Report

AGEGR 087 Caterpillar Machine Hydraulic Systems
Demonstrate the ability to test and adjust the Cat 928G wheel loader implement hydraulic system and the LSPC with the hand metering unit steering system.

AGEGR 090 Caterpillar Undercarriage and Final Drive
Demonstrate the proper set up procedure for an open differential.

AGEGR 091 Caterpillar Machine Electronic Systems
Student will perform a cylinder cutout test.

AH SC 010 Principles of Animal Science
Students will design and construct a model ruminant stomach on the digestive tract identification test. 70% of students will score 70% or higher on digestive tract identification test.

AH SC 010L Principles of Animal Science Laboratory
The student will describe the general principles of animal breeding as it applies to sheep and goat industry standards. 65% of students will score 70% or higher on a breeding summary exam score card.
Student will present an oral report charting a sequence of health vaccinations, nutritional requirements and breeding soundness exams relevant to the ovine estrus cycle. The presentation will be evaluated based on the sheep management estrus cycle breeding chart. 50% student will score 80% or higher on the presentation.

AH SC 011A Introduction to Livestock Evaluation
The student will identify market ready livestock from non contemporary groups.

AH SC 011B Beginning Livestock Evaluation
Upon completion of this course the student will demonstrate the ability to analyze and identify market ready livestock from non contemporary groups using visual appraisal and production records.
The student will demonstrate a popular method of comparing animals in the same herd or contemporary group by calculating an Index or Ratio.

AH SC 011C Intermediate Livestock Evaluation
Upon completion of this course the student will demonstrate the ability to analyze and identify market ready livestock from non contemporary groups using visual appraisal and production records.
The student will demonstrate and utilize performance data in a livestock selection system.
Course Learning Outcomes Report

AH SC 011D Advanced Livestock Evaluation

Student will demonstrate the understanding of advanced performance data in livestock selection. Student will compose a two minute oral presentation that compares and rates four animals from a contemporary group.

Upon completion of this course the student will demonstrate the ability to analyze and identify market ready livestock from non contemporary groups using visual appraisal and production records.

AH SC 025A Introduction to Livestock Presentation

Students will demonstrate knowledge and understanding of basic livestock fitting tools and products.

AH SC 025B Beginning Livestock Presentation

Students will demonstrate knowledge and understanding of basic terminology related to livestock anatomy on a anatomy and terminology identification test.

AH SC 025C Intermediate Livestock Presentation

Students will demonstrate knowledge and understanding of basic livestock identification on a husbandry practices test.

AH SC 025D Advanced Livestock Presentation

Student will demonstrate skills required to select, prepare and exhibit a project animal for a livestock sale. Students will demonstrate knowledge and understanding of the six basic nutrients composing a livestock feed ration on exam questions.

AH SC 050H Special Studies: Animal Husbandry Sciences

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student’s abilities and knowledge.

AH SC 069V Internship: Animal Science

The student/Intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

AH SC 075 Selected Topics: Animal Husbandry Science

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

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AH SC 096V Work Experience: Animal Husbandry Science

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

ANTHR 001 Cultural Anthropology

Students will be able to apply holism by connecting the type of economic organization to the type of political organization and to the degree of social inequality.

ANTHR 002 Physical Anthropology

Students should be able to understand the significance and importance of stem cell research.

Upon completion of the course, students will be able to demonstrate a greater appreciation for the similarities and differences between human and non-human primates both physically and behaviorally.

Students will be able to critically analyze, compare and contrast the scientific, fossil and genetic evidence supporting evolution as a fact. This will not only require a knowledge of course content but students will need to integrate information from a variety of different disciplines.

ANTHR 002L Physical Anthropology Laboratory

Student will gain a greater appreciation for the function and articulation of the bones in the human body.

Student will gain a greater appreciation of the unique features of the various specimens in the fossil record from the Paleocene to modern day.

Students will gain a greater appreciation of the similarities and differences between the anatomy of human and non-human primates.

ANTHR 004 Introduction to Linguistics

Upon completion of this course, students will be able to define the main structural components of human language.

Upon completion of this course, students will have gained an appreciation and an understanding of language diversity, locally and worldwide. Students will know the approximate number of living human languages, and will be familiar with the issues surrounding language change and language death.

Upon completion of this course, students will have gained an understanding of the social, cultural, and political aspects of language use and human communication.

ANTHR 006 Introduction to North American Indians

Upon completion of the course, students will be able to define the anthropological concept of holism and apply it to the socio-political issues facing Native American Indians today.

Students will be able to identify accurately the main "culture areas"--past and present--for North American indigenous groups.
Course Learning Outcomes Report

ANTHR 010 Introduction to Archaeology

Students will be able to critically analyze the various theoretical perspectives that developed through time that are used to interpret the archaeological record.

Students will be able to interpret a stratigraphic profile of a hypothetical, multi-occupational site.

Students will be able to present clearly evidence supporting new explanations regarding the development and decline of ancient civilizations (i.e. the Copan Mayan).

ANTHR 012A Beginning Field Archaeology

Students will be able to layout a site grid and/or survey certain archaeological regions.

Upon completion of the course students will understand the significance and importance of preserving archaeological sites and be able to communicate such knowledge to the community.

ANTHR 012B Intermediate Field Archaeology

Upon completion of the course students will understand the significance and importance of preserving archaeological sites and be able to communicate such knowledge to the community.

Students will be able to layout a site grid and/or survey certain archaeological regions.

ANTHR 015 Selected Topics: Anthropology

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

ANTHR 050H Special Studies: Anthropology

ability to understand major typologies of cultural and/or fossil data as a part of analysis and problem solving.

ability to apply cultural relativism and scientific method to data.

ability to understand and apply major theoretical perspectives in the subject area.

ability to understand and apply the aspects of the "anthropological method."

ARAB 001 Elementary Arabic

Students will demonstrate clear and precise oral expression through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

ARAB 051 Elementary Arabic

Students will be able to engage in basic and culturally appropriate conversations in Arabic. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.
Course Learning Outcomes Report

ARAB 052 Elementary Arabic

Students will be able to engage in basic and culturally appropriate conversations in Arabic. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

ARAB 053 Elementary Arabic

Students will be able to engage in basic and culturally appropriate conversations in Spanish. They will successfully introduce themselves, talk about their interests, hobbies, health, customs and traditions, etc. in a culturally appropriate way.

ARAB 054 Elementary Arabic

Students will be able to engage in basic and culturally appropriate conversations in Spanish. They will successfully introduce themselves, talk about their interests, hobbies, health, customs and traditions, etc. in a culturally appropriate way.

ARAB 075 Selected Topics: Arabic

Will vary

ARCH 001 Basic Architectural Drafting

At the end of this course the student will be able to read and reference architectural drawings and related technical material. This would include the ability to calculate and construct solutions to presented problems, per professional standards. Primarily, the student will have attained the technical skill to construct simple architectural drawings for several types of views including floor plans, exterior elevations, cross sections, foundation plans, site plans and electrical plans.

ARCH 002 Architectural Practice: Working Drawings

Students produce a set of working drawings for a wood frame residential structure.

ARCH 004 Architectural Practice 1

The student completing this course will be able to: 1. Employ appropriate safety procedures while using tools and shop equipment. 2. Safely operate wood and metal working tools and equipment. 3. Construct small-scale objects from a variety of materials. 4. Understand basic design concepts and the conscious application of these concepts in the creation, development and communication of ideas.

ARCH 005 Architectural Detailing

The student will produce a portfolio of architectural detail drawings depicting various aspects of construction and building systems.
ARCH 006 Digital Tools for Architecture

The student completing this course will be aware of, and be able to use, the program interface and the range of tools and functions available to support architectural design and presentation processes.

ARCH 008 Materials of Construction

At the end of this course the student will be able to interpret and analyze various materials and procedure applications used in the field of residential and commercial construction.

ARCH 010 Computer-Aided Drafting for Architecture

At the end of this course the student will be competent in the manipulation of computer-aided drafting software. They will have gained skills in executing drawings per professional architectural industry standards.

ARCH 014 Advanced Architectural Practice

The student will present a three dimensional graphic solution to an instructor developed design/analysis problem utilizing BIM software.

ARCH 015 Selected Topics in Architecture

Varies by topic.

ARCH 020 Architectural Design and Drawing I

The student will present a 3d design solution that demonstrates drawing and design concept skills.

ARCH 021 Architectural Design and Drawing II

Given a theoretical design problem the student demonstrates critical thinking skills to generate a graphic solution for the hypothetical situation.

ARCH 022 Architectural Design and Drawing III

After analyzing multiple studies of responses to a specific problem, the student presents a selected conceptual solution to the problem, employing a physical model, as well as two and three dimensional graphic drawings.

ARCH 069V Internship: Architecture

Enhanced skills and knowledge as a result of the interaction between employer, student, and internship faculty coordinator.
Course Learning Outcomes Report

ARCH 076 Selected Topics: Architectural Drafting

Will vary with topic.

ARCH 078 Building Codes

Student will be able to evaluate and differentiate between the various building codes as they apply to a variety of building types and construction methods.

ARCH 087A Architectural Drafting Specialization

The student will present a project that will demonstrate advanced knowledge and skills in a specialized area of architectural drafting.

ART 001A Art History: Europe from Prehistory to 1400

Student relates a work of art or architecture made between the Renaissance and today to the aesthetics, values, or practices the culture that produced it in an essay that is evaluated using a rubric developed by the department.

Student recognizes specific regional, period, and cultural styles and thus correctly identifies the region, period, or culture that produced the artwork shown in slide identification exam questions.

Student demonstrates understanding of terminology pertinent to art media and historical context. Students correctly answer exam questions on using terminology related to art media and historical context.

ART 001B Art History: Europe from the Fifteenth to the Twentieth Century

Student relates a work of art or architecture made between the Renaissance and today to the aesthetics, values, or practices the culture that produced it in an essay that is evaluated using a rubric developed by the department.

Student recognizes specific regional, period, and cultural styles and thus correctly identifies the region, period, or culture that produced the artwork shown in slide identification exam questions.

Student demonstrates understanding of terminology pertinent to art media and historical context. Students correctly answer exam questions on using terminology related to art media and historical context.

ART 001C Modern and Contemporary Art History

Increase the appreciation of art.

Recognize canonical works of art and/or period styles.

Analyze visual elements of specific art work.

ART 002 Art History of the Non-Western World

Student relates a Non-Western artwork to the aesthetics, values, or practices of its culture in an essay that is evaluated using a rubric developed by the department. 80% of students will earn a C or better on the essay.

Student recognizes specific regional, period, and cultural styles. 80% of students correctly identify the region, period, or culture that produced the artwork shown in 70% of slide identification exam questions.

Student demonstrates understanding of terminology pertinent to art media and historical context. 80% of students correctly answer 70% of exam questions on terminology related to art media and historical context.

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ART 002A History of Asian Art

- Recognize geographic and/or period styles.
- Recognize the use of formal elements and their impact on how art is perceived.
- Increase the appreciation of art.

ART 002B African and African-American Art

- Increase the appreciation of art.
- Recognize canonical works of art and/or period styles.
- Analyze visual elements of specific art work.

ART 002C Art of the Americas

- Analyze visual elements of specific art work.
- Recognize canonical works of art and/or period styles.
- Increase the appreciation of art.

ART 003 Introduction to Art

- Student can recognize and demonstrate an informed understanding of the role of the artist in society.
- Student can formally analyze and interpret a work of art from an exhibition.
- Students can use appropriate, discipline-specific terminology when discussing art in written form.

ART 004 Exploring Art

- Students will use materials and tools from the course in an appropriate and safe manner.
- Student has an understanding of some of the techniques used to create three dimensional art works.
- Student has an understanding of some of the techniques used to create two dimensional art works.
- Student has the ability to analyze and discuss art works experienced in a museum or gallery setting.

ART 005 Selected Topics: Art

- Student learning outcomes to be determined by instructor and will vary by topic.

ART 005A Mural Painting

- Design and creation of mural with consideration to content.
Course Learning Outcomes Report

ART 006 Color and Design

Student can analyze art work from an exhibition. Students will successfully complete written assignments (and/or participate in oral analysis) based on exhibitions at the L.H. Horton Jr. Gallery or other instructor approved institution.

Students will discuss, critique and write a critical evaluation of any two-dimensional design/art using the appropriate vocabulary and terminology pertaining to the elements, principles and color theory of two-dimensional design.

Students will independently produce a portfolio of visual compositions and problem-solving projects that successfully incorporate the basic elements, organizing principles and color theory of two-dimensional design.

Students will skillfully use a variety of artistic materials, techniques and tools.

Students will demonstrate a working knowledge and understanding of the basic elements, principles and color theory of two-dimensional design on a written exam.

ART 007A Beginning Painting

The student will critique a painting in the Horton Gallery in a oral presentation to the class. This presentation is evaluated using an instructor developed checklist which includes painting vocabulary to describe observations of the work: Texture, hue, value, shape, form, and space. Students must include at least 50% of the elements of the checklist in the presentation. At least 75% of the student will achieve this outcome.

The student will demonstrate the ability to mount an archival quality canvas on stretcher bars built by the student. The will be evaluated using industry standards. This must be completed at 90% accuracy. 90% of students will achieve this outcome.

The student will create acrylic paintings for each of the three major themes: still life, landscape, and figure. These painting will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the paintings.

ART 007B Intermediate Painting

The student will demonstrate the ability to frame a painting by preparing a picture for an exhibition. They will be evaluated using a check list based on industry standards. This must be completed at 70% accuracy. 80% of students will achieve this outcome.

The student will demonstrate the ability to combine three major categories: painting techniques, materials, and content by creating acrylic paintings. The paintings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the painting.

The student will create a painting that communicates a story or an event. This painting is evaluated using an instructor developed checklist which includes painting vocabulary to describe observations of the work: texture, hue, value, shape, form, light, and space. 75% of students will achieve a grade of 70% on the checklist for the painting.

ART 007C Advanced Painting

The student will demonstrate the ability to frame a painting by preparing a picture for an exhibition. They will be evaluated using a check list based on industry standards. This must be completed at 80% accuracy. 80% of students will achieve this outcome.

The student will demonstrate the ability to add content to communicate a mood or feeling by creating a painting. The painting will be evaluate using an instructor developed checklist which includes elements such as plasticity of paint, color, and compositional arrangement. 80% of students will achieve 75% or higher on the checklist.

The student will demonstrate the ability to apply three fundamentals of abstraction by creating and abstract painting. these painting will be evaluated using an instructor developed checklist. 75% of students will achieve a score of 80% on the checklist of the painting.
ART 012 3-D Design

Student can examine historical, contemporary and natural objects using the concepts of design.
Student will have a practical understanding and ability to utilize the four fundamental methods used to create 3-D design models. Student will successfully complete projects that demonstrate the ability to utilize the forming techniques of (1) manipulation, (2) subtraction, (3) addition, and (4) substitution.
Have the ability to apply design concepts to practical design problems. Student will construct a variety 3-D projects that demonstrate design concepts and solve design problems.
Student can identify the core elements and principles of 3-D design.
Use materials and tools from the course in an appropriate and safe manner.

ART 016 Descriptive Drawing and Rendering

Demonstrate an understanding of both one point and two point perspectives.

ART 020A Sculpture I

The student uses materials and tools from the course in an appropriate and safe manner.
The student will show an introductory understanding and ability to utilize the substitution technique of lost-wax metal casting by creating a small cast metal sculpture by presenting a completed cast metal project to the instructor and peers in a classroom critique.
The student demonstrates an introductory understanding of how to create sculptural objects that exhibit specific design concepts by presenting the sculptural work for evaluation.
The student will show an introductory understanding and ability to utilize the manipulative forming method of clay modeling to create a clay sculpture by presenting a completed clay project to the instructor and peers for a classroom critique.
The student will show an introductory understanding and ability to utilize the subtractive forming method of carving to create a carved stone sculpture by presenting the completed project to the instructor and peers in a classroom critique.

ART 020B Sculpture II

The student uses materials and tools from the course in an appropriate and safe manner.
The student uses his/her own observational abilities to recreate subject matter in various three-dimensional materials and has completed representational sculpture projects.
Student will demonstrate a deepened understanding and an ability to utilize the substitution technique of lost-wax metal casting by creating a hollow cast metal sculpture and present this completed cast metal project to the instructor and peers in a classroom critique.
Student will have an introductory understanding of various metal welding and brazing techniques and will have the ability to utilize one or more of these techniques to form a metal sculpture by presenting the completed project to peers and instructor.
The student will show a deepened understanding and an ability to utilize the manipulative forming method of modeling by creating and presenting a clay or wax sculpture to the instructor and peers in a classroom critique.
Course Learning Outcomes Report

**ART 020C Sculpture III**

Student will successfully complete a mold from an original sculpture. Student has created a successful cast from the mold. Student will present the completed project to the instructor and peers in a classroom.

The student demonstrates the correct use of materials and tools from the course in an appropriate and safe manner.

Student will utilize basic wood and/or metal working techniques to successfully create an additive sculpture.

In consultation with the instructor, the student will propose and create sculptural works that exhibit a specific independent and personal direction and present the collection to the class and instructor for critique.

The student will demonstrate an ability to self evaluate his/her own work and the work of peers using proper sculpture and design terminology.

**ART 033A Beginning Drawing**

The student will create a series of still life drawings using traditional concepts. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawings.

Assessment: Instructor developed checklist.

The student will apply the fundamentals of composition in creating a drawing. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for drawings.

The student will apply basic skills of modeling, observation, and proportion to draw a series of portraits. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawings.

The student will create landscape drawings using concepts of linear perspective. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawings.

The student will apply basic knowledge of anatomy, modeling, and proportions in creating a series of drawings of the human form. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawings.

**ART 033B Intermediate Drawing**

The student will demonstrate basic matting techniques to showcase a finished drawing. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawing.

Students will demonstrate the basic skills of basic color theory, blending, and layering techniques to create a color pencil drawing. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawing.

The student will use a wide range of techniques to create a charcoal drawing. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawing.

The student will use a series of techniques to create a ink drawing. The drawings will be evaluated using an instructor developed checklist. 75% of students will achieve a grade of 70% on the checklist for each of the drawing.
Course Learning Outcomes Report

ART 033C Figure Drawing

The student will demonstrate the drawing skills to create a portrait that conveys the likeness of a live model.
The student will demonstrate the ability to captures the essence of a figure in motion in a drawing.
Student will demonstrate the ability to apply principles of proportion, gesture and anatomy by creating a drawing from a live nude model.
The student will demonstrate the ability to matt a drawing for competition.

ART 036A Beginning Painting

Acrylic painting of three major themes: still life, landscape, figure.

ART 036B Beginning Painting

Create an acrylic painting of three major themes: still life, landscape, figure. To build and stretch canvas.

ART 036C Intermediate Painting

To complete several paintings with clear visual relationship to theme and content. To create paintings that explore form as function. To use painting vocabulary to explore the observations made of the actual work completed at the end of each assignment.

ART 040A Beginning Printmaking

Students will evaluate and critique class projects using correct terminology in oral or written formats.
Student can analyze art work from an exhibition. Students will successfully complete written assignments (and/or participate in oral analysis) based on exhibitions at the L.H. Horton Jr. Gallery or other instructor approved institution.
Students will create a portfolio of work demonstrating formal, conceptual, and material development in a broad range of printmaking techniques.
Students will identify and define the proper terminology as it pertains to the printmaking process on a written exam.

ART 040B Intermediate Printmaking

Students will create a portfolio of work demonstrating a deepening proficiency in the formal and conceptual development of making prints.
Student can present a print to a gallery for exhibition.
Students will demonstrate broadened use of the proper terminology as it pertains to intermediate printmaking process on a pre/post tests.
Student will be able to evaluate and critique class projects using terminology in oral or written formats.
ART 040C Advanced Printmaking

Student will present a body of work to a gallery for exhibition.
Students will evaluate and critique class projects using correct terminology in oral or written formats.
Student will create a portfolio of work demonstrating a deepening proficiency in the formal and conceptual development of making prints.
Students will demonstrate broadened use of the proper terminology as it pertains to intermediate printmaking process on a pre/post tests.

ART 043A Beginning Drawing

Create a drawing using counter line. Create a drawing from observation. To create a drawing using the value scale to represent a comprehensive study of light given a variety of lighting effects. To draw a picture describing a cylinder, cube, sphere, and cone.

ART 043B Beginning Drawing

Create a drawing using graphite pencil. Create a drawing using the eraser as a primary tool. To create a picture of a person, portrait. To draw a picture of folds, concave and convex forms. To draw a picture of the human form using basic proportions. To create a picture using cross hatching, hatching, and stippling. Drawing using one, two, and three point perspective.

ART 043C Intermediate Drawing

Using; color pencils, graphite pencil, India ink and brush, conte, charcoal, stump, grease pencil, color paper, charcoal paper, to draw a picture referencing actual visual forms. Do a drawing of the human body from life.

ART 043D Intermediate Drawing

Outcome: Using; color pencils, graphite pencil, India ink and brush, conte, charcoal, stump, grease pencil, color paper, charcoal paper, to draw a picture referencing actual visual forms. Do a drawing of the human body from life. Create a drawing of body with reference to anatomy. To Create a visible representation of a persons likeness using multiple medias on a wide range of surfaces.

ART 050H Special Studies: Art

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

ART 064A Ceramics I

Student can demonstrate competence in the use of the basic handbuilding techniques and glazing procedures.
Student can analyze and interpret a ceramic work of art from an exhibition.
Course Learning Outcomes Report

ART 064B Ceramics II

Student can produce a series of cups, bowls and plates with trimmed feet, even thickness and proper balance.
Student can present an art work to a gallery for exhibition.
Student can assess and critique ceramics in group, individual, and written contexts using relevant critique formats, concepts and terminology.

ART 065A Ceramics III

Student will be able to demonstrate how to load and fire a glaze kiln, unload and record results.
Student will present a body of work which demonstrates originality and technical competence beyond that achieved in Ceramics II.
Student can present a body of work to a gallery for exhibition.

ART 101 Art for Seniors

1. The student will define and use basic art terminology appropriate to area of study. (Painting, drawing, ceramics, sculpture)
2. The student will demonstrate the art techniques and skills appropriate to area of study. (Painting, drawing, ceramics, sculpture)
3. The student will identify and skillfully use materials, equipment and tools appropriate to area of study. (Painting, drawing, ceramics, sculpture)

ASTRO 001 Introductory Astronomy

A student should be able to interpret a graph.
A student should memorize and recollect fundamental astronomical terminology.
A student should be able to interpret a graph.
A student should be able to explain in writing astronomical concepts.
A student should be able to analyze a given statement and draw a conclusion with an explanation as to whether the statement makes sense or not.
A student should memorize and recollect fundamental astronomical terminology.

ASTRO 001L Astronomy Laboratory

A student should be able make and tabulate all physical measurements with a corresponding uncertainty of error.
A student should be able to plot and interpret a graph.
A student should be able to memorize and identify constellations and stars.
A student should be able to make calculations and interpret their numerical results based on what is expected from well known physical laws.

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**ATH 049 Golf Team: Women**

The students will demonstrate knowledge of golf etiquette, course management and sportsmanship at a 70% accuracy according to the rubric developed by the golf coaches.

The students will preform individual skills needed in golf match play at a 70% accuracy according to match play rubric.

The student will be able to: apply the rules of the game of golf at 70% accuracy according the rules rubric developed by the coaches.

The student will demonstrate individual fundamentals and strategies at 70% accuracy in their performance of the basic fundamentals according the the coaches rubric.

**ATH 050 Soccer Team: Men**

During competition and during practices, the student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportsmanship.

**ATH 051 Water Polo Team: Men**

During competition and during practices, the student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportsmanship.

**ATH 052 Football Team: Men**

The student will bench 250 lbs in a lab exercise. 90% of students will achieve this outcome.

Student place kickers will perform a 35 yard field goal in a practice and/or in an actual game. 85% of the student place kickers will achieve this outcome.

The student will blitz quarterback using a bull rush in a practice and/or in an actual game. 80% of students will achieve this outcome.

The student will participate in a sixty minute football game. 80% of students will achieve this outcome.

**ATH 053 Cross Country Team: Men**

The student will run non-stop for 30 minutes. 90% of students will achieve this outcome.

The student will apply the correct bio-mechanics when running. 70% of students will achieve this outcome.

**ATH 054 Baseball Team: Men**

The student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportsmanship, during competition and during practices.

The student will correctly perfom a sacrifice bunt in practice.

The student will hit the ball to the opposite field during practice.
Course Learning Outcomes Report

ATH 055 Golf Team: Men

The student will hole a 15 foot putt. 80% of the students will achieve this outcome.
The student will hit a 225 yard drive. 80% of the students will achieve this outcome.
the student will hit a 55 yard wedge shot to within 15 feet of pin. 70% of students will achieve this outcome.
The student will hit a 100 yard iron to within 15 feet of the pin. 70% of students will achieve this outcome.

ATH 056 Basketball Team: Men

The student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportsmanship, during competition and during practices.

ATH 057 Track Team: Men

Develop a long range plan that encorporates the physical training aspects of running as well as the nutritional concepts necessary for the season. 80% of students will achieve this outcome.
The student will apply the correct bio-mechanics when running. 70% of students will achieve this outcome.
Run non-stop for 30 minutes. 90% of students will achieve this outcome.

ATH 058 Wrestling Team: Men

The student will score 90% or higher on a rules test based on competition rules. 80% of the students will achieve this outcome.
Compete in the conference wrestling championships. 60% of students will achieve this outcome.
The student will complete 75 push-ups in a one minute test.

ATH 060 Swimming & Diving Team: Men

The student will swim the 50 yard freestyle in 24.50 seconds or faster. 80% of students will achieve this outcome.
The student will swim specialty stroke non-stop for 30 minutes. 90% of students will achieve this outcome.
The student will swim the 100 yard freestyle in 52.50 seconds or faster. 70% of students will achieve this outcome.
Student divers will perform six dives in competition with a final score of 100 points or better. 85% of the student divers will achieve this outcome.

ATH 061 Soccer Team: Women

The student will execute the basic offensive and defensive skills of the game of soccer.

ATH 062 Volleyball Team: Women

The student will complete 60 sit-ups in one minute. 70% of students will achieve this outcome.
The student will make a jump serve in competition. 60% of students will achieve this outcome.
The student will compete in the conference tournament. 80% of students will achieve this outcome.
The student will achieve 70 kills on the season. 60% of students will achieve this outcome.

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ATH 063 Swimming and Diving Team: Women

The student will swim the 100 yard freestyle in 103.00 or faster. 70% of students will achieve this outcome.
Student divers will perform six dives in competition with a final score of 100 points or better. 85% of the student divers will achieve this outcome.
The student will swim the same race in 30.50 or faster. 80% of students will achieve this outcome.
The student will swim specialty stroke non-stop for 30 minutes. 90% of students will achieve this outcome.

ATH 064 Basketball Team: Women

During competition and during practices, the student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportmanship.

ATH 065 Softball Team: Women

During competition and during practices, the student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport, its etiquette, and sportmanship.

ATH 067 Water Polo Team: Women

During competition and during practices, the student will appropriately apply the rules and demonstrate the skills and fundamental strategies of the sport.

ATH 068 Track Team: Women

Students will apply the correct bio-mechanics when running.
Students will develop a long range plan that incorporates the physical training aspects of running as well as the nutritional concepts necessary for the season.

ATH 069 Cross Country Team: Women

Run non-stop for 30 minutes. 90% of students will achieve this outcome.
The student will apply the correct bio-mechanics when running. 70% of students will achieve this outcome.
Develop a long range plan that incorporates the physical training aspects of running as well as the nutritional concepts necessary for the season. 80% of students will achieve this outcome.

AUTO 069V Internship: Auto Mechanics

Students add to their depth of training by working in the occupation they are studying. Gains in interpersonal relationships during employment will be evidenced through increases in productivity and quality of workmanship.
Course Learning Outcomes Report

AUTO 075 Selected Topics: Automotive Technology

Will vary by topic course developed.

AUTOBODY 069W Internship: Auto Body Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

AUTOBODY 080A Auto Body Repair

The student will be able to operate the oxyacetylene welding torch and know how to adjust the pressure on the regulators and handle to weld light gauge metals.

At the end of the course, students will be able to to weld light gauge metal by using oxygen/acetylene torch. 80 percent of the students will be able to complete this task.

Students will demonstrate application of safety standards by passing the CCAR certification examination. 100% of students will achieve 80% or better on this examination.

AUTOBODY 080B Auto Body Repair

At the end of this course, the student will be able to identify two different types of fiberglass used on automobiles today and the correct materials to use in the repair, in a written assignment.

At the end of this class, the student will identify various types of plastic used on automobiles today and decide which repair system to use on a written examination and adhesion and flexure test.

At the end of the course the student will demonstrate complicated repairs of auto body damage and refine basic metal working skills on a written assignment and the choice of which material to use for the repair.

AUTOBODY 080C Auto Body Repair

At the end of the course, the students will be able to to prepare a panel to primer by following the necessary steps to properly treat the surface and applying the primer while adjusting the spray gun for minimal overspray. The student must pass a visual inspection of the panel and overspray assignment with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 080D Auto Body Repair

On a unibody vehicle, the students will be able to replace a damaged rail section following the car manufacturer's recommended procedure. The students must pass a visual inspection of the assignment with a grade of "C" or better. 80 percent of the students will complete this task.

At the end of the course, the student will be able to analyze the amount of damage on a vehicle using the laser beam measuring system, select the tools and equipment needed to repair minor collision damage, and write a repair estimate for the damage. The students must pass an assignment check-off sheet and a visual check-off on the computerized vehicle diagnosis system with a grade of "C" or better. 80 percent of the students will complete this task.
Course Learning Outcomes Report

AUTOBODY 080E Auto Body Repair

At the end of this class, the student will be able to identify various types of plastic used on automobiles today and decide which repair system to use. The student must pass a written assignment and the adhesion and flexure test with grade of "C" or better. 80 percent of the students will complete this task.

At the end of this course, the student will be able to identify two different types of fiberglass used on automobiles today and the correct materials to use in the repair. The student must pass the written assignment and the choice of which material to use for the repair with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 080F Auto Body Repair

The student will be able to analyze the depth of corrosion on the vehicle panel and determine which chemicals to use for future repairs on the vehicle. The student will correctly identify problems with a grade of "C" or better. 80 percent of the students will successfully complete the task.

At the end of the course, the student will be able to select and use the equipment needed for minor vehicle repairs and analyze minor frame damage using the laser beam measuring system. The student must be able to explain and demonstrate the procedure with a grade of "C" or better. 80 percent of the students will need to pass all of the assignments on the check off sheet and a mechanical test on the laser beam measuring system using the dimensions and specifications charts.

AUTOBODY 080G Auto Body Repair

By the end of the course the student will be able to perform various frame alignments. The student must pass a visual inspection of the frame and it must be within factory tolerances. The student must perform the assignment with a grade of "C" or better. 80 percent of the students will complete this task.

By the end of the course the student will be able to mix and match paint colors. The student must pass a visual inspection of the panel and overspray assignment with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 080H Auto Body Repair

The student will be able to apply and calculate the amount of paint materials needed for a complete vehicle paint job without any waste and with mil thickness within the manufacturer's recommendation. The student must pass the assignment with no more than one pint of waste and mil thickness of no more than 12 mil using the electronic mil thickness gauge. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

At the end of the course, the student will be able to determine the amount of damage from a major collision using the computerized vehicle diagnosis system. The student must calculate and repair the vehicle within plus or minus 2 millimeters based on the manufacturer's specifications from the computerized vehicle diagnosis system. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
Course Learning Outcomes Report

AUTOBODY 081A Introductory Auto Collision Repair Laboratory

Students will demonstrate application of safety standards by passing the CCAR certification examination. 100% of students will achieve 80% or better on this examination.

The student will be able to operate the oxyacetylene welding torch and know how to adjust the pressure on the regulators and handle to weld light gauge metals.

At the conclusion of the course, the student will be able to calculate and adjust the amount of catalyst needed for the plastic filler.

The student will be able to operate the oxyacetylene welding torch and know how to adjust the pressure on the regulators and handle to weld light gauge metals. The student must pass several hands-on assignments and a written test with a grade of "C" or better. 80 percent of the students will be able to complete this task.

At the conclusion of the course, the student will be able to calculate and adjust the amount of catalyst needed for the plastic filler. Students must pass a written assignment and a visual shade test based on the color achieved from the catalyst when added to the mix with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 081B Beginning Auto Collision Repair Laboratory

At the end of the course, students will be able to to weld light gauge metal by adjusting and calculating the digital dial for the voltage and wire speed on the MIG (metal inert gas) welder. Students must pass a written assignment and a manual tensile and torsional test with a grade of "C" or better. 80 percent of the students will be able to complete this task.

Students will be able to analyze minor collision damage, determine the correct sequence to correct the damage, and choose the best tools for the repair. Students must pass a written assignment with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 081C Intermediate Auto Collision Repair Laboratory

At the end of the course, the student will be able to analyze the amount of damage on a vehicle using the dimension and specification charts as well as select the proper tools and equipment needed to repair minor collision damage. Students must pass a written test and a visual check-off using the computerized vehicle diagnosis system with a grade of "C" or better. 80 percent of the students will complete this task.

At the end of the course, the students will be able to to prepare a panel to primer by following the necessary steps to properly treat the surface and applying the primer while adjusting the spray gun for minimal overspray. The student must pass a visual inspection of the panel and the amount of overspray with a grade of "C" or better. 80 percent of the students will complete this task.

AUTOBODY 081D Advanced Auto Collision Repair Laboratory

At the end of the course, the student will be able to analyze the amount of damage on a vehicle using the laser beam measuring system, select the tools and equipment needed to repair minor collision damage. The students must pass an assignment check-off sheet and a visual check-off on the computerized vehicle diagnosis system with a grade of "C" or better. 80 percent of the students will complete this task.

Upon completion of the course, the students will be able to replace a damaged section of a structural component following the automobile manufacturer's recommended procedure. The students must pass a visual inspection of the assignment with a grade of "C" or better. 80 percent of the students will complete this task.
Course Learning Outcomes Report

AUTOBODY 084A Introductory Auto Collision Repair

Students will demonstrate application of safety standards by passing the CCAR certification examination. 100% of students will achieve 80% or better on this examination.

At the end of the course the student will be able to use the spray gun to feather repairs. The student will demonstrate the knowledge and skills to identify the appropriate procedures for the use of a spray gun to feather repairs. The student must pass a visual inspection of the panel with a grade of "C" or better. 80 percent of the students will be able to complete this task.

At the end of the course the student will be able to use the spray gun to feather repairs.

At the end of the course, students will be able to to weld light gauge metal by adjusting and calculating the digital dial for the voltage and wire speed on the MIG (metal inert gas) welder.

At the conclusion of the course, the student will be able to calculate and adjust the amount of catalyst needed for the plastic filler.

At the conclusion of the course, the student will be able to calculate and adjust the amount of catalyst needed for the plastic filler. Students must pass a written assignment and a visual shade test based on the color achieved from the catalyst when added to the mix with a grade of "C" or better. 80 percent of the students will complete this task.

At the end of the course, students will be able to to weld light gauge metal by adjusting and calculating the digital dial for the voltage and wire speed on the MIG (metal inert gas) welder. Students must pass a written assignment and a manual tensile and torsional test with a grade of "C" or better. 80 percent of the students will be able to complete this task.

At the end of the course the student will be able to use the spray gun to feather repairs. The student will demonstrate the knowledge and skills to identify the appropriate procedures for the use of a spray gun to feather repairs. 80 percent of the students will be able to complete this task.

AUTOBODY 084B Beginning Auto Collision Repair

At the end of this course, the student will be able to identify two different types of fiberglass used on automobiles today and the correct materials to use in the repair. 80 percent of the students must pass the written assignment and the choice of which material to use for the repair with a grade of "C" or better.

At the end of this class, the student will be able to identify various types of plastic used on automobiles today and decide which repair system to use. 80 percent of the students must pass a written assignment and the adhesion and flexure test with grade of "C" or better.

At the end of the course the student will be able to demonstrate complicated repairs of auto body damage and refine basic metal working skills. 80 percent of the students must pass a written assignment and the choice of which material to use for the repair with a grade of "C" or better.

AUTOBODY 084C Intermediate Auto Collision Repair

At the conclusion of the course, the student will also be able to mix and match the vehicle color from the factory color standard and create test panels. The student will be evaluated from a comparison with the test panel to the actual color of the vehicle and must pass with a grade of "C" or better. 80 percent of the students will complete this task.

At the end of the course, the student will be able to select and use the equipment needed for minor vehicle repairs and analyze minor frame damage using the laser beam measuring system. The student will need to pass all of the assignments on the check off sheet and a mechanical test on the laser beam measuring system using the dimensions and specifications charts with a grade of "C" or better. 80 percent of the students will complete this task
Course Learning Outcomes Report

AUTOBODY 084D Advanced Auto Collision Repair

At the end of this class, the student will be able to determine the amount of collision damage to a vehicle by using the vehicle diagnosis system. The student will be assessed using the vehicle diagnosis system to decide whether the student is within plus or minus 2 millimeters of the manufacturer's standard. 80 percent of the students will complete this task.

The student will be able to apply and calculate the amount of paint materials needed for a complete vehicle paint job without any waste and with mil thickness within the manufacturer's recommendation. The student must pass the assignment with no more than one pint of waste and mil thickness of no more than 12 mil using the electronic mil thickness gauge. 80 percent of the students will complete this task.

AUTOBODY 087C Auto Body Specialization

The student will study the topic chosen. Once the topic is chosen repair orders will be generated to show the customer and instructor how repairs have been accomplished. Student will meet industry guidelines according to the Department of Consumer Affairs/ Bureau of Automotive Repair, The National Institute for Automotive Service Excellence and I-CAR. 80 percent of the students will successfully complete the task. Instructor will review and determine if the repair order meet industry guidelines. Student will return the vehicle to the customer and review the Consumer Satisfaction Index to meet the needs of the customer.

AUTOBODY 088A Master Auto Body Technician

At the end of the course the student will successfully be able to explain the procedure used to straighten damaged sheet metal to craftsmen levels. The student must pass with a grade of "C" or better. 80 percent of the students will be able to complete this task.

At the end of the course the student will successfully be able to demonstrate the ability to determine the type of repair needed for a given situation. The student must pass with a grade of "C" or better. 80 percent of the students will be able to complete this task.

At the end of the course the student will successfully be able to demonstrate the procedure used to straighten sheet metal to craftsmen levels. The student must pass with a grade of "C" or better on the metal straightening grading rubric. 80 percent of the students will be able to complete this task.

AUTOBODY 088B Master Auto Body/Refinish Technician

The student will successfully demonstrate the ability to determine and plan the steps of repair needed for a given situation. Students must achieve a grade of "C" or better on the grading rubric for the task. 80 percent of the students will complete this task.

Successfully explain the procedures and materials used to prepare automotive substrates for final paint application resulting in craftsmen levels of workmanship. Students must achieve a grade of "C" or better on the automotive paint application grading rubric. 80 percent of the students will complete this task.
Course Learning Outcomes Report

AUTOBODY 098V Work Experience: Auto Body Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

AUTOMECH 072 Basic Brakes, Suspensions, Wheel Alignment, and Maintenance

Students will learn how to identify and measure automotive brake system components
students will identify suspension system components
To ready the student to engage in advanced automotive courses or make a better informed decision on their career goals.

AUTOMECH 073 Basic Engine Performance and Electrical Systems

Diagnose and repair starting, charging, and engine performance system problems. Utilize technical service data from industry standard service manuals and service information systems.
To ready the student to engage in advanced automotive courses or make a better informed decision on their career goals.
Assessment: Assessment: Students completing can make informed choices to continue on to advanced level related courses, or to stop training in the automotive repair field.

AUTOMECH 087A Automobile Mechanics Specialization

The student will study the topic chosen. Once the topic is chosen repair orders will be generated to show the customer and instructor how repairs have been accomplished.

AUTOMECH 087B Auto Electrics Specialization

The student will study the topic chosen. Once the topic is chosen repair orders will be generated to show the customer and instructor how repairs have been accomplished.

AUTOMECH 090A Clean Air Car Course

Students will complete a Smog Check Inspection including a visual, functional, and tailpipe emission test. The vehicle and Vehicle Inspection Report (VIR) will be returned to the customer, with the explanation of all of the results. 80 percent of the students will complete this outcome.

AUTOMECH 090B Advanced Clean Air Car Course

The students will learn to use Bureau of Automotive Repair (BAR) 97 Emission Inspection System (Smog Machine) safely.
The student will learn how to diagnose smog failures on live vehicles related to oxygen sensors and catalytic converter.

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AUTOMECH 091 Starting, Charging, and Electrical Systems

1. Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines.
2. Students will diagnose, evaluate, and repair a vehicle using the most cost-effective repair process and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle according to Bureau of Automotive Repair (BAR) standards.

AUTOMECH 092 Brakes, Suspension, and Steering

Students will be able to inspect brake system and identify if in need of repairs.
Student will be able to properly align vehicle according to manufactures specification
The student will be able to perform repairs to brake system according to manufactures specifications
Student will be able to inspect and repair suspension problems

AUTOMECH 093 Engine Rebuilding

Students will prepare work order for diagnosing engine repair following Bureau of Automotive guidelines. The professor will evaluate the work order to insure it was properly prepared by the student. 80 percent of the students will complete this task with 80% accuracy.

Students will demonstrate their knowledge of measuring tools to skillfully and accurately diagnose the internal combustion engine. The student will be tested on use of measuring tools for engines through written and hands on evaluations. 80 percent of the students will score 70% on the written exam and 80% on the NATEF High Priority Task List.

The student will assemble an engine using manufacturer specifications. The engine must operate properly once it is completed. 80 percent of the students will be able to complete this task with 80% accuracy.

AUTOMECH 094 Manual Drivetrain and Axles

2. Students will diagnose, evaluate, and repair a vehicle using the most cost-effective repair process and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle according to Bureau of Automotive Repair (BAR) standards.
1. Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines.

AUTOMECH 095 Air Conditioning, Heating, and Electrical Systems

Student Learning Outcome: Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete heating ventilation air conditioning inspection on a vehicle. Inspection will include a complete functional, and operational inspection including scanner diagnostics. Diagnosis of various systems will reveal and verify customer concerns of heating ventilation air conditioning failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle heating ventilation air conditioning systems by functioning the repaired devices and by making the vehicle ready for presentation to the customer. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The vehicle and finished repair order will be presented to the customer.
Course Learning Outcomes Report

2. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the Technician area of the repair order. The student will verify the completed repair of the vehicle heating ventilation air conditioning systems, by meeting the requirements of the Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR).

1. Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines.

AUTOMECH 096A Fuel Management and Computer Controls

Students will complete a repair order following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete baseline inspection on a vehicle. Inspection will include a complete fuel system, emission system, and scan tool diagnostic. Diagnosis of various systems will reveal and verify customer concerns of engine performance failures as noted and documented in the technician area and customer area of the repair order.

Students will estimate the cost of fuel management and computer system repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order.

AUTOMECH 096B Ignition Systems and Electronic Engine Controls

Students will estimate the the most cost effective repair process according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. 80 percent will achieve 100% accuracy on work order estimates.

The student will demonstrate knowledge and skills to identify the final correction that must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle engine performance failures by successfully completing a smog check inspection, and by making the vehicle ready for presentation to the customer. 70 percent of the students completing this course must achieve 100% on the repair of the emission failure.

AUTOMECH 097 Automatic Transmissions and Transaxles

Student Learning Outcome: Students will complete a repair order (RO) following Department of Consumer Affairs/ Bureau of Automotive Repair (DCA/BAR) guidelines beginning with a complete transmission diagnosis and teardown inspection. Diagnosis of various systems will reveal and verify customer concerns of transmission failures as noted and documented in the technician area and customer area of the repair order, students will estimate the cost of repair according to current labor rate guides and part estimator guides available through various sources; computer programs, internet, parts and labor guides. Students will diagnose and evaluate the most cost effective repair process using and documenting in the technician area of the repair order. The student will document equipment and procedures used to correct the failures of the vehicle. The final correction must be found in the customer area of the repair order. The student will verify the completed repair of the vehicle by installing the finished transmission onto a transmission dynamometer or vehicle for presentation to customer or instructor. The repair order will be finally completed by applying the cost of labor (shop labor rate approximations not to be charged to actual customer) and actual part costs with current taxes applied to final document. The transmission or transaxle and finished repair order will be presented to the customer.
Course Learning Outcomes Report

AUTOMECH 098V Work Experience: Auto Mechanics

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

BIM 001 Keyboarding and Document Processing

Operate word processing software to key and format simple basic business documents.
Apply keyboarding skill to straight copy text with speed and accuracy to industry standards.
Use proper keystroking technique to input text on a computer keyboard.

BIM 001A Beginning Keyboarding

Keyboard by touch on a personal computer at threshold speed and accuracy of 25 words per minute with no more than one error per minute.

BIM 001B Document Processing

Properly format a business letter, report, or simple table using word processing software features.
Keyboard by touch on a personal computer at 38 words per minute with no more than one error per minute.

BIM 002 Advanced Keyboarding: Document Formatting

Student will be able to create business documents with international day/month/year format, international telephone access codes used in telephone numbers, and dot-style telephone numbers and print them on metric size paper with DL (metric) envelope.
Student can correctly format a document for interoffice mailing that includes all required correspondence parts.
From unorganized data, the student can use critical thinking skills and reference materials to correctly format data in columnar form (writing appropriate column headings).

BIM 007A MS Word: Beginning Concepts and Applications

To produce useful, informative text documents in an academic, job, or other work environment.
To operate word processing application software effectively and efficiently.

BIM 007B MS Word: Advanced Concepts and Applications

To manipulate advanced word processing application features when working with complex document formats and layouts.

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BIM 031 Electronic Calculation

Students will operate a display/printing calculator at a minimum of 200 strokes per minute using the "touch" method (without looking at their fingers) to complete business problems that involve adding, subtracting, multiplying, dividing, sub-totaling, credit balances, and use of constants and memory features.

Using the direct memory feature of a calculator, determine the depreciation and end-of-year book value for assets of a business using the sum-of-the-years'-digits method.

Calculate the cost per item using a specified markup (based on cost) on a calculator using the memory.

Analyze data and use a calculator to determine monthly production on the basis of the number of units produced and the cost per unit of each item.

Apply the concept of inventory valuation to complete the mathematical steps necessary to determine the correct value for inventory as used in a business setting.

BIM 032 Office Calculation

Students will operate a display/printing calculator at a minimum of 200 strokes per minute using the "touch" method (without looking at their fingers) to complete business problems that involve adding, subtracting, multiplying, dividing, sub-totaling, credit balances, use of constants and memory features.

Using the direct memory feature of a calculator, determine the depreciation and end-of-year book value for assets of a business using the sum-of-the-years' digits method.

Calculate the cost per item using a specified markup (based on cost) on a calculator using the memory.

Analyze data and use a calculator to determine monthly production on the basis of the number of units produced and the cost per unit of each item.

Apply the concept of inventory valuation to complete the mathematical steps necessary to determine the correct value for inventory as used in a business setting.

BIM 032A Beginning Office Calculation

Students will operate a display/printing calculator at a minimum of 200 strokes per minute using the "touch method" (without looking at their fingers) to complete business problems that involve adding, subtracting, multiplying, dividing, subtotaling, credit balances, use of constants and memory features.

Students will be able to 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.

Students will be able to apply the concept of the just-in-time inventory method to calculate the inventory value on an inventory sheet often used by large manufacturers.

Students will be able to apply the use of a constant divisor on a display/printing calculator to determine the cubic volume of space.
BIM 032B Intermediate Office Calculation

Student will be able to calculate interest on interest-bearing notes using ordinary interest (bank's year 360 days), exact interest (365 days), and monthly interest (months/12).

When it is necessary to sell a note prior to it's due date, students will be able to determine how much the bank will discount the note to determine the proceeds from selling the negotiable instrument.

Calculate the cost per item using a specified markup (based on cost) on a calculator using the memory.

Students will be able to calculate the monthly interest during at least a six-month period on a savings account when the annual interest is provided and monthly withdrawals are made from the savings account.

BIM 032C Advanced Office Calculation

Students will be able to distribute expenses based on proration by distributing an amount based on a percentage distribution of the proportion between two totals.

Students will be able to calculate payroll for combined payments of guaranteed salary, commission, piece work, commissions, royalties, piece-rate pay plan, and bonuses as appropriate for the business situation.

Students will be able to calculate the dividend yield (converted to a percentage from its decimal equivalent) of a stock dividend based on the annual dividend per share and the price per share.

Students will be able to complete a payroll register, calculating the deductions for FICA (Social Security and Medicare), SUI (state unemployment insurance), and standard deductions. Use of the K (constant) key and memory feature on the calculator, and percentage conversion to the decimal equivalent are required.

Using the direct memory feature of a calculator, students will determine the depreciation and end-of-year book value for assets of a business using the sum-of-the-years' digits method.

BIM 038 Office Technologies and Procedures

Given a typical office procedure, the student produces a portfolio reflecting correct use of three (3) office technologies.

The student will state and describe three (3) office procedures in the workplace and the proper methods of accomplishing the procedures.

The student will research a recent ethical workplace dilemma, and write a report on the ethical implications.

BIM 039 Office Management

Upon successful completion of the course, the student will be able to list and explain basic concepts in managing a culturally diverse workforce in an office environment.

Upon successful completion of the course, the student will list and explain three administrative office management functions. The student will provide examples of strategies used to successfully carry out these tasks.
BIM 043 Records Management in Public Agencies

The student will identify and explain three federal or state regulations governing records management in public agencies.

Given a public records management case, the student will analyze and identify the problems and solutions to a records management workplace issue.

The student will produce a records management portfolio that contains a minimum of five (5) critical legislations governing public records management.

BIM 069V Internship: Business Information Management

One objective of the four chosen for the semester must specifically relate a course objective of the related course to the on-the-job learning at the job site to extend classroom learning to the job site.

BIM 070 Computer Keyboarding for Speed and Accuracy

Applying industry standard, demonstrate keyboarding skill to input text information efficiently and accurately using a computer keyboard.

BIM 076 Selected Topics: Business Information Management

Will vary by each specialized topic course

BIM 081 Records Management and Filing

Given an essay prompt, the student will correctly describe the relationship among a database and its tables, records, and fields.

Given an alphabetic filing simulated practice, the student will demonstrate an ability to index, code, and arrange personal and business names in indexing order of units including rules for minor words and symbols, punctuation and possessives, single letters, and abbreviations.

Given a filing simulation that includes at least twenty foreign business and government names, the student will prepare and arrange original cards and cross-references with at least 70 percent accuracy.

Given an alphabetic filing simulation with at least fifteen personal business names for filing, the student will be able to index, code, and arrange personal and business names that are identical.

BIM 095A Office Filing

Upon successful completion of this course, the student shall be able to identify the ten basic filing rules according to the American Records Management Association (AMRA).

Upon successful completion of this course, the student shall be able to cross reference hyphenated surnames, abbreviations and acronyms, similar names, foreign names and compound names.
Course Learning Outcomes Report

**BIM 095D Proofreading and Beginning Document Formatting**

Upon successful completion of this course, the student shall be able to format the parts of a memorandum, margins, spacing, and special notations.

Upon successful completion of the course, the student shall be able to apply proofreading and editing skills to keyboarding errors such as omissions, repetitions, transpositions, and spacing.

**BIM 095E Telephone Techniques**

Upon successful completion of this course, the student will apply positive two-way business communication when answering a telephone.

Upon successful completion of this course, the student will know how to answer a telephone call correctly, how to transfer a telephone call, and how to place a caller on hold.

**BIM 095F Office Fundamentals**

Upon successful completion of this course, the student will be able to produce a fax cover sheet and fax a business document.

Upon successful completion of this course, the student will be able to use an electronic calendar.

**BIM 098V Work Experience: Business Information Management**

Student will improve on the job site utilizing classroom learning objectives from the related course.

**BIOL 001 Core Biology**

Students will demonstrate their ability to use standard molecular and cellular biology equipment, safely and effectively.

1) Students will perform and evaluate a class-wide primary research experiment, and interpret the results in the context of the scientific literature. 2) Students will demonstrate the ability to design logical and robust hypothesis-based experiments by taking an examination in which they are given a scientific problem and required to write an experimental design. 3) Students will demonstrate their ability to read and interpret primary research articles on biological topics.

1) Students will identify and describe components of Hardy-Weinberg equilibria as well as the requirements for this theorem to hold true, on an examination. 2) Students will identify and describe mechanisms of allopatric and sympatric speciation, and to explain them in terms of reproductive barriers between species.

Students will be able to describe the flow of genetic information through transcription and translation, and the molecular regulation of these processes, in viruses, prokaryotes, and eukaryotes, and to predict outcomes using Mendelian genetics techniques, on a comprehensive examination covering all concepts presented during the semester.

Students will demonstrate mastery of cell and molecular processes, including structure and function of subcellular moieties, communication, enzyme function, and the energy flow and chemical pathways in the processes of photosynthesis and cellular respiration.

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**Course Learning Outcomes Report**

**BIOL 002 General Zoology**

90% of students will correctly identify 70% of animals covered in the course based on the Lab Practical Examination which includes using microscopes and dissection scopes.

**BIOL 003 General Botany**

Students must understand the connection of biological function and biological structure. They must comprehend that biological structure controls biological function.

Students will demonstrate an understanding of the role of evolution in shaping the diversity of organisms on the planet. This will be evaluated through three lab practical examinations. 70% of students who complete the course will achieve a score of 70% or greater on the practical exams will be considered a successful accomplishment of the outcome.

Students must be able to compare and contrast the processes by which water and organic materials, such as sugar, pass through the tissues of a member of the Kingdom Plantae.

Students must be able to visually and conceptually differentiate biological communities common to the Central Californian region.

The student should be able to understand key ecological processes relevant to the dynamic functioning of ecosystems.

**BIOL 010 Survey of Biology**

Students will demonstrate their understanding of biological processes by an analysis of the following: 1. evolution by means of natural selection, 2. How energy flows through ecosystems and, 3. Reproduction. Students will write a two-page analytical report based upon their experience on a required field trip. This will be evaluated using the instructor developed rubric.

**BIOL 011 Humans in the Biological World**

Students will describe entropy, energy flow through organisms, and the fundamental biochemistry used to effect homeostasis, identifying how human and non-human nervous, urinary, immune, digestive, respiratory, musculoskeletal, reproductive, and circulatory systems are used to create and maintain order and homeostasis, measured on an end-of-semester, comprehensive examination.

Students will define and use concepts in population genetics, including evolution and Hardy-Weinberg equilibria, and how they are affected by the processes of genetic drift, Natural Selection, gene flow, and mating strategies on an end-of-semester, comprehensive examination.

Students will describe the universal mechanisms of information flow in classical and molecular genetics, predict the outcomes of monohybrid and dihybrid crosses, and describe and evaluate modern techniques using and exploiting the properties of DNA and RNA on an end-of-semester, combination multiple choice and written examination.

Students will perform, and write reports on hypothesis-based experiments, using standard laboratory equipment and techniques, and evaluate research reports based on these skills.

Students will demonstrate their knowledge of energy flow and chemical cycling within various ecosystems on a combined multiple-choice and written examination.
Course Learning Outcomes Report

BIOL 012 Natural History of California

Students will demonstrate their understanding of the natural environmental conditions that contribute to the biological uniqueness found within the current political borders of California (climate, weather, geology, evolutionary history) by analysis of the following: identification of major geological features found within the current political borders of California and the processes that formed them, identification of the ecological biomes found within the current political borders of California, identification of the commonly encountered plants and animals found in natural environments within the current political borders of California, and an understanding of the history of the relationships among the various cultures of people and the natural environment found within the current political borders of California.

BIOL 022 Introduction to Medical Microbiology

The student should be able to classify and categorize a microbe based on knowledge of its structure, cell type, metabolism and other characteristics.

Use a bright field light microscope to view and interpret slides, including: a. correctly setting up and focusing the microscope b. proper handling, cleaning, and storage of the microscope c. correct use of all lenses d. recording microscopic observations

Properly use aseptic techniques for the transfer and handling of microscopes and instruments, including a. sterilizing and maintaining sterility of transfer instruments b. performing aseptic transfer c. obtaining microbial samples

Students will apply their understanding of certain biochemical tests in order to differentiate among common enteric bacteria.

BIOL 023 General Microbiology

The student should be able to maintain and manipulate bacterial cultures using proper aseptic techniques.

The student should be able to design an experiment that applies the various microbiological lab skills and techniques. The student will demonstrate this by designing and carrying out an experiment, documenting the progress with a lab notebook, and writing a scientific paper that documents their work.

The student should be able to operate a compound light microscope to view and interpret slides including a. correctly setting up and focusing the microscope. b. proper handling, cleaning and storage of the microscope. c. correct use of all lenses. d. recording microscopic observations.

The student should be able to classify & categorize a microbe based on knowledge of its structure, cell type, metabolism and other characteristics.

BIOL 030 Human Sexuality

The students will evaluate methods of prevention of STDs and unwanted pregnancy to decide which methods will be personally used, societal impacts and ethical issues, in class discussions and tests.

The students will discuss and analyze many perspectives of human sexuality topics in biological literature and express their opinion based on biological facts in class discussions and research papers.
BIOL 031 Human Anatomy

By the end of the course students will be able to recognize and name body organ systems, organs, and tissues, and to describe structure-function relationships. This will be assessed by written and lab exams with a minimum of 70% correct as criterion for success. It is expected that at least 80% of students will achieve this outcome.

BIOL 032 Human Physiology

Students will be familiar with homeostasis and negative feedback loops as the underlying principles of physiology.
Outcome: Students will use laboratory instruments or computer simulations to measure physiological functions.
Outcome: Given a graph of physiological measurements, students will present a summary and analysis of the data. Students will apply the principles of the scientific method in their analysis.

Through oral presentations and/or written reports the student will develop and test hypotheses to demonstrate knowledge of physiology principles and mastery of the scientific method. The presentation will be evaluated using an instructor developed rubric. The student will score a minimum of 70% on this activity.

BIOL 033 Anatomy & Physiology

Students will correctly diagnose pathological conditions using case studies.
Student will demonstrate safe lab procedures encompassing the use of common and technological equipment and instrumentation, preserved specimens and the proper dissection of these preserved specimens in a lab setting.
Given a specimen, the student will correctly identify the organs and organ systems, structures and functions of those systems in maintaining homeostasis.
Given a specimen, the student will correctly identify the skeletal system, the bone processes, the articulations, and common injuries to these bones.

BIOL 040 Fundamentals of Biotechnology

Student will be able to extract proteins using Laemmli buffer and load and analyze the proteins using SDS PAGE (sodium dodecyl sulfate polyacrylamide gel electrophoresis)
Student will be able to extract DNA using a Chelex extraction from cheek cells
Students will be able to use the ELISA(Enzyme-Linked Immunosorbant Assay) test to show if a primary antibody is present in an indirect ELISA test.
Students will be able to produce proteins from eukaryote cells
Student will be able to make a solution and properly label the container.
Students will be able to write a lab entry into their laboratory notebooks following the proper rubric.
Students will be able to pour agar plates containing chosen additives
Student will be able to explain how electrophoresis works to separate DNA fragments.
Student will be able to use NEBcutter (New England Biolabs) software to predict where a particular restriction enzyme will cut a given piece of DNA and then carry out the restriction and analyze the results to see if the prediction was supported or not.
Student will be able to transform a bacteria with pGlo plasmid after making the three types of agar necessary to induce the operon and produce the protein in the operon.
Student will be able to purify GFP from a liquid culture of bacteria that have been transformed and induced in that culture.
Course Learning Outcomes Report

BIOL 050H Special Studies: Biology

The student must demonstrate his/her ability of a scientific methodology, scientific methods and ability to do research. Student must conduct a research project. The student should first review the scientific literature and then possibly perform some laboratory experiments. He or she must present his/her findings to the instructor in a scientific publishable format. Student will conduct experiments to test hypotheses or test other scientific method hypothesis.

BIOL 055 Introduction to Human Genetics

The student must know the differences between mitosis and meiosis. The student must have the knowledge of genetic information is transferred to the next generation.

The student must be able to distinguish between mitosis and meiosis. The student must know in the process of meiosis how genetic information is transferred from one generation to the next.

The student will comprehend and compare the laws of genetics and major genetic diseases.

The student will be able to comprehend the extended an implications of the cell division process that leads to genetic recombination. The student will compare and contrast cell division in prokaryotes and eukaryote. The student would be able to formulate explanations of classic Mendelian genetics, multifactorial traits, sex linked traits, and the genetics of behavior. The student will Comprehend the structure and function of DNA and chromosomes, the definition of a gene, and concept of gene regulation.

BIOL 075 Selected Topics: Biology

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

BUS 001A Principles of Accounting

Demonstrate an understanding of the accounting cycle including the analysis and recording of transactions, preparation of adjusting entries for accruals and deferrals and preparation of financial statements for sole proprietor service and merchandising companies. Students will demonstrate their knowledge by answering objective test questions, using an answer key, during examinations.

Analyze cash and related internal controls including bank accounts. Students will demonstrate their knowledge by preparing a bank reconciliation and related adjusting entries.

BUS 001B Principles of Accounting

Students will prepare Corporate Financial Statements including a Statement of Shareholders Equity during a timed examination or as a homework assignment.

Student will prepare a Statement of Cash Flow using end-of-period data, during a timed exam.

Students will demonstrate an understanding of manufacturing accounting concepts including standard costs and budgets during a timed examination or by completing relevant homework problems.

Students will demonstrate the ability to analyze managerial accounting issues using Cost-Volume-Profit analysis.
Course Learning Outcomes Report

BUS 003 Financial Accounting
Each student will be required to demonstrate a working knowledge of the steps in the accounting cycle.

BUS 004 Managerial Accounting
Students will be able to apply accounting concepts and systems to provide information for management decision making.
Students will be able to prepare and use a master budget.

BUS 006 Business and Professional Communication
Upon successful completion of this course the student will be able to develop and deliver an organized and effective business presentation.
Upon successful completion of this course the student will be able to demonstrate effective job interviewing skills.
Students will enhance their ability to communicate effectively in a group or team environment.

BUS 008 Introduction to The American Legal System
Upon completion of this course the student will be able to distinguish among the various parts of a contract.

BUS 009 Ethical Issues in Business
Upon completion of this course the student will be able to compare and contrast professional codes of ethics used in accounting vs. those used in real estate.

BUS 010A Bookkeeping
Students will demonstrate an understanding of the accounting used within the two types of accounting practices used in a service versus a merchandising company in assigned problems.
Student will demonstrate a basic knowledge of Accounting theory and practices on the final examination.

BUS 010B Bookkeeping
Students will explain how to calculate inventory valuations using both the LIFO and FIFO methods on quizzes, problems, and written examinations.
Students will explain how to calculate depreciation using straight-line, units of production, and double-declining methods on quizzes, problems, and written examinations.

BUS 011 Income Tax Procedures
Students will demonstrate the ability to prepare moderately complex Federal income tax returns including sole-proprietorship schedules.
Students will demonstrate knowledge of the Federal income tax structure and formula.

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Course Learning Outcomes Report

BUS 015 Excel Spreadsheets

- Write a formula with a mixed reference where parentheses are used to maintain the order of precedence.
- Format worksheets using the number, alignment, font, border tabs in the Format Cells dialog box.
- Develop the appropriate chart type (not the default), from spreadsheet data that requires assessing value of parts to a whole.

BUS 017A Beginning Business Communications

- Upon successful completion of this course, the student will apply proofreading skills to a business document.
- Upon successful completion of this course, the student will write an effective and persuasive e-mail or memorandum using appropriate business English.
- Upon successful completion of this course, the student will use three English electronic resources to create or edit a business document.

BUS 017B Advanced Business Communications

- Upon successful completion of this course, the student will be able to compare the strengths and weaknesses of print and electronic media available for short messages to determine the most effective method to utilize.
- Upon successful completion of this course, the student will be able to outline an effective strategy for writing routine requests using the three-step process. Then utilize this process to write routine business requests.
- Upon successful completion of this course, the student will be able to describe how business communication differs from social communication and what communication skills successful employers require from their employees.
- Upon successful completion of this course, the student should be able to compose and organize a business report containing at least eight parts: cover, title page, table of contents, synopsis, introduction, body of report, summary (or conclusions or recommendations), appendixes (if necessary), and bibliography.

BUS 018A Business Law

- Upon completion of this course the student will be able to distinguish between law and equity and assess the method of the development of both.

BUS 018B Business Law

- Upon completion of this course the student will be able to evaluate the differences between partnerships and corporations.

BUS 019 Legal Environment of Business

- Upon completion of this course the students will distinguish between the three major theories of ethics- Utilitarianism, Kantian ethics, and Rawl?s Social Justice Theory. The knowledge of this subject matter will be measured by five objective, multiple choice or true/false questions on an examination. Seventy percent of students will achieve 70% or higher on these examination questions.
- The students will demonstrate knowledge of laws affecting the employer/employee relationship by correctly answering 70% of the examination questions on this topic. Seventy percent of the students will achieve this outcome.
Course Learning Outcomes Report

BUS 020 Introduction to Business

Students will be able to identify various management styles and techniques.
A student completing this course will be able to read the stock pages of the local newspaper.
Students will be able to identify various management styles and techniques.
A student completing this course will be able to read the stock pages of the local newspaper.

BUS 021 Marketing

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to display their ability to effectively identify target markets using various segmentation variables. The use of industry/academic terminology will be the criteria used in the evaluation of the student. The student will be able to effectively use at least two different segmentation variables in their evaluation/identification of target markets. At least 60% of the students will achieve this outcome.

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to display their ability to effectively identify target markets using various segmentation variables. The use of industry/academic terminology will be the criteria used in the evaluation of the student. The student will be able to effectively use at least two different segmentation variables in their evaluation/identification of target markets. At least 60% of the students will achieve this outcome.

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to display their ability to effectively identify target markets using various segmentation variables. The use of industry/academic terminology will be the criteria used in the evaluation of the student. The student will be able to effectively use at least two different segmentation variables in their evaluation/identification of target markets. At least 60% of the students will achieve this outcome.

BUS 022 Professional Selling

The student will demonstrate selling strategies use the consultative selling strategy in a sales presentation.

The student will demonstrate the skill to create value and maintain customers by responding to essay questions during an examination.

BUS 023 Advertising

Student is able to evaluate which advertising media is most suitable for national versus local advertisers.

Student is able to articulate the importance of advertising in the economy.

BUS 024 Retail Management

After completing this course the student will be able to demonstrate the terminology used in the retail industry.

Upon completion of this course students will develop retail strategies including merchandise planning, development, pricing, distribution, and promotion necessary to operate retail businesses.

The student will be able to understand and develop a retail strategy for a retail business.

The student will be able to describe and display retail store layouts.

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**Course Learning Outcomes Report**

**BUS 026 Economics of Business**

- Students will identify a properly drawn and labelled supply and demand diagram on a multiple choice exam.
- Students will evaluate the advantages and disadvantages of communism, capitalism, and mixed economic systems on a multiple choice exam.
- Students will analyze and critically evaluate economic data such as Gross Domestic Product, unemployment rates, and the Consumer Price Index on a multiple choice exam.

**BUS 030 Supervision and Human Relations**

- Students will evaluate methods of discipline such as the progressive discipline procedure on a multiple choice exam.
- Students will identify effective methods of appraising worker performance on a multiple choice exam.
- Students will analyze legal and ethical challenges facing supervisors in today's work environment on a multiple choice exam.

**BUS 031 Introduction to Management**

- Students will analyze the general characteristics of managers, how their tasks differ, and which factors can lead to success in a management occupation on a multiple choice exam.
- Students will analyze and identify specific, measurable and time-bounded personal goals on a multiple choice exam.
- Students will analyze factors involved in leadership, leadership styles, and how to use these different styles effectively on a multiple choice exam.

**BUS 033 Introduction to Public Administration**

- The student will describe and illustrate the principle of a balanced budget and the importance of allocation of public resources in the public administrative field.
- Given a recent ethical case, the student will identify an ethical dilemma as it relates to public managers or policy analysts.
- The student will demonstrate the ability to discuss an employee performance or productivity theory such as: Re-engineering, Team Empowerment, and Total Quality Management, and its impact on performance management in the public sector.

**BUS 034 Introduction to Municipal Clerkship**

- Demonstrated ability to effectively explain and apply the principles and requirements of records retention government agencies in California.
- Demonstrated ability to effectively explain the duties and responsibilities of Municipal Clerks in California.
- The student will produce a written report on how to effectively administer municipal elections in California. The report must include an analysis of a minimum of two of the following relating to elections in California: (1) Legal references (2) Municipal regulations (3) Governmental agencies (4) Additional election resources including addresses, phone numbers, and websites needed to conduct an efficient and cost-effective municipal election.
- Demonstrated ability to effectively explain how to administer municipal elections in California including (1) Legal references (2) Municipal regulations (3) Governmental agencies that impact and/or regulate elections (4) Additional local election agencies and resources including addresses, phone numbers, and websites needed to conduct an efficient and cost-effective municipal election.
Course Learning Outcomes Report

BUS 036 Human Resources Management

The student will be able to demonstrate the ability to understand and develop job descriptions based on analysis of the job description and requirements. The student will be asked to review and analyze example situations and provide justifications of conclusions and recommendations in written assignments and class discussions. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

The student will be able to understand and apply recent human-resources-related legislation. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

The student will be able to understand the steps involved in employee recruitment and selection and develop sample job recruitment strategies and appropriate job interview questions. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

The student will be able to assess several types of Human Resources Department structures and identify why each is appropriate in achieving specific organizational goals. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

BUS 037 Human Behavior in Organizations

The student will be able to define and apply individual motivation techniques along with delegation methods to improve employee performance. The student will compare and contrast motivational techniques applied to defined situations and prepare a written analysis.

Outcome: The student will be able to identify and apply management and organizational behavior theories appropriately to "real life" situations. The student will be asked to review and analyze example situations and provide the pros and cons of various management and organizational behavior theories in written assignments and class discussions.

BUS 038 Selected Topics: Business

Students will explain their competency in the field of study through completion of the assigned project and/or written examination.

BUS 039 QuickBooks

Use a computerized accounting system to analyze and record financial transactions of a small business.
Use a computerized accounting system to set up the accounts for a small business.

BUS 040 Real Estate Principles

The student will demonstrate the ability to use basic real estate terminology properly.

BUS 041 Real Estate Practice

The student will be able to explain the meanings of terms and vocabulary used on the CALIFORNIA ASSOCIATION OF REALTORS® (C.A.R.) form "Residential Purchase Agreement" to a client.
Course Learning Outcomes Report

BUS 042 Real Estate Finance

The student will solve numerical exercises using lender guidelines.
The student will compare and contrast various capital sources, involved government agencies, and types of loans.

BUS 043 Legal Aspects of Real Estate

Analyze the most commonly used statutes and regulations related to California real estate.
Appraise the regulation of real estate agents in California regarding agency and the Code of Ethics.

BUS 044 Real Estate Appraisal

Each student will demonstrate the ability to select and apply the analysis of the three approaches to value in appraising real property.

BUS 044A Real Estate Appraisal Principles

Each student will be required to demonstrate a basic understanding of the cost approach to valuation including the ability to utilize the replacement cost and reproduction costs methods.

BUS 044B Real Estate Appraisal Procedures

Each student will be required to demonstrate the ability to prepare a legal description of real property.
Each student will be required to demonstrate the ability to prepare a legal description of real property.

BUS 044C Advanced Real Estate Appraisal

Each student will be required to demonstrate the ability to prepare a sample valuation of real property using the "sales comparison" approach.

BUS 045 Real Estate Economics

The student will compare and analyze real estate investments utilizing capitalization rates and will be able to choose appropriate real estate investments to recommend to investors.
The student will be able to list at least four reasons why a real estate market is considered to be an imperfect market.

BUS 046 Property Management

Understand several types of properties, the general, specific and unique characteristics related to residential rental property management.

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Course Learning Outcomes Report

BUS 050H Special Studies: Multidisciplinary

Students will show their competency in the field of study.

BUS 050I Special Studies: International Business

Students will show their competency in the field of study.

BUS 050J Special Studies: Advertising

Students will show their competency in the field of study.

BUS 050K Special Studies: Management

Students will show their competency in the field of study.

BUS 050L Special Studies: Legal Aspects of Business

Students will show their competency in the field of study.

BUS 050M Special Studies: Marketing

Students will show their competency in the field of study.

BUS 051 Introduction to Transportation

Student will understand the various requirements involved in the handling and transportation of hazardous materials.
Student will have the ability to explain the advantages and disadvantages of the various modes of transportation.

BUS 054 Introduction to International Law

Upon completion of this course the student will be able to analyze the different institutions of the European Union and compare their functions.

BUS 055 International Business

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to evaluate and calculate the impact and amount of monetary exchange rate changes. The use of industry/academic terminology as well as determining a monetary exchange will be the criteria used in the evaluation of the student. The student will be able to effectively determine the exchange of currency between two countries as well as the use of appropriate course terminology to explain the impact of monetary exchange rates on a country's economy. At least 60% of the students will achieve this outcome.

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to analyze a business situation using a global perspective. The use of industry/academic terminology will be the criteria used in the evaluation of the student. The student will be able to effectively use at least two different global business concepts in their evaluation of the business situation. At least 60% of the students will achieve this outcome.

The student will use industry/academic terminology in presentation(s) and/or case study assignment(s) to identify some of the barriers to entry and steps to be taken to enter different countries economies. The use of industry/academic terminology will be the criteria used in the evaluation of the student. The student will be able to effectively use at least one barrier and one step to be taken to enter a specific country in their evaluation of the country's economy. At least 60% of the students will achieve this outcome.
Course Learning Outcomes Report

BUS 056 Transportation: Export and Import

Student will be able to prepare insurance documents relating to exporting/importing products.
Students will be able to access current government requirements relating to importing and exporting.

BUS 057 Logistics Management

At the completion of the course the student will be able to outline the principles and procedures of effective distribution and warehouse management.
At the completion of the course the student will be able to understand the use of technology in the field of inventory control.

BUS 060 Small Business Management

The student will be able to write a business plan which include the basic components of the business plan format.
The student will be able to articulate why planning is so important to successfully operate a small business.

BUS 061 Principles and Operations of Financial Institutions

Given a sample customer, the student will analyze his/her banking needs and identify 2-3 banking products that meet his/her needs.
The student will assess FDIC deposit insurance coverage for a sample customer and present recommendations for maximizing coverage.
The student will identify and explain three current federal or state regulations governing the banking system.

BUS 063 Analysis of Financial Statements

Students will analyze a balance sheet and income statement for a business and prepare a one-page report analyzing these financial statements.
Given financial statements for a business, the student will identify, calculate, explain, and analyze three financial ratios that are critical to the financial success of the business.
Student will identify and discuss economic indicators that impact and effect business financial projections.

BUS 065 Introduction to Consumer and Business Loans

The student who successfully completes this course will prepare and assess potential private and/or government resources for obtaining business and personal loans.
The student who successfully completes this course will verbally demonstrate and dramatize the loan interview process.
The student who successfully completes this course will explain how Business and Personal loans differ.
Course Learning Outcomes Report

BUS 066 Principles of Money and Banking
The student will demonstrate the ability to compare and contrast financial products and services in the United States. Given an economic model or theory, the student will analyze its impact on the financial industry and its customers. The student will illustrate the principles of the United States monetary system and how they impact the financial industry.

BUS 067 Introduction to Personal Finance
Students will explain how to calculate the time value of money for a variety of time periods and interest rates on quizzes, problems, and written examinations. Students will explain the advantages and disadvantages of a variety of types of insurance on quizzes, problems, and written examinations.

BUS 069V Internship: Business and Accounting
One objective of the four chosen for the semester must specifically relate a course objective of the related course to the on-the-job learning at the job site to extend classroom learning to the job site.

BUS 070 Payroll Accounting
Demonstrate knowledge of current payroll tax law and procedures. Students will prepare Federal and California quarterly payroll tax returns.

BUS 073A Leadership for Supervisors and Managers
The student will be able to develop personal goals which are specific, measurable, and time-bounded. The student will be able to contrast and compare leadership styles.

BUS 073B Recruiting and Selecting Employees
Upon completion of this course, the student will compare and evaluate job candidates. The successful student will rank and recommend candidates based on skills and abilities to job requirements. Upon completion of this course, the student will be able to list 3 resources for recruiting potential employees and evaluate the advantages and disadvantages of each.

BUS 073C Decision Making for Supervisors
Upon completion of this course, the student will demonstrate time management skills in the workplace. Upon completion of this course, the student will be able to list, explain, and contrast 3 methods of decision making skills by managers.
Course Learning Outcomes Report

**BUS 073D Personnel Relations in the Workplace**

Upon successful completion of this course, the student will be able to list and explain 3 methods of improving productivity and performance in the workplace.

Upon successful completion of this course, the student will be able to recommend a corrective course of action based on the particular workplace situation.

**BUS 073E Customer Service Basics for Business and Industry**

Upon successful completion of this course, the student will identify the key elements of outstanding customer service including reliability, assurance, tangibles, empathy, and responsiveness.

Upon successful completion of the course, the student will identify the advantages and disadvantages of good and poor customer service.

**BUS 073H Managing Your Time to Better Serve Your Customers**

Upon successful completion of this course, the student will able to identify time wasters and their importance in managing time on the job.

Upon successful completion of this course, the student will be able to prepare and analyze a self-diagnosis to determine where his/her time goes.

**BUS 073J Conflict Resolution in the Workplace**

The student will be able to recognize and evaluate the causes of conflict.

The student will demonstrate how to use various techniques for resolving conflict

**BUS 073K Fostering Positive Attitudes in the Workplace**

The student will be able to analyze key skills in attitude adjustment

The student will learn to effectively communicated and project a positive attitude to co-workers and other organizational stakeholders.

**BUS 074A Introduction to Risk Management and Insurance**

Students who complete this course will be able to compare and contrast several types of insurance, identify the differentiating characteristics of types of insurance, and solve basic financial personal and business-related problems related to risk management and insurance.

**BUS 074B Property and Liability Insurance**

To be able analyze, evaluate, compare, and contrast the characteristics and importance of Property and Liability Insurance.
Course Learning Outcomes Report

BUS 074C Personal Insurance

To be able to analyze, evaluate, compare, and contrast the concepts and characteristics relate to homeowners, automobile, personal property, and life insurance.

BUS 074D Introduction to Commercial Insurance

General knowledge of commercial insurance types, features, need for, advantages and disadvantages.

BUS 074E Ethics for Insurance Professionals

At the successful completion of this course, the student will be able to describe, evaluate, compare, and contrast ethical and unethical actions and behaviors related to the insurance industry and its regulations and laws.

BUS 076 Selected Topics: Business

Will vary by topic course developed.

BUS 077 Introduction to On-line Courses

Upon successful completion of this course, the student will use basic word processing tools such as create, edit (cut, copy, and paste), and save a word processing document.

Upon successful completion of this course, the student will use the tools required to successfully complete an online course.

BUS 078 Introduction to Teller Training

Given samples of valid and non-valid bank instruments, the student will analyze the items and identify the proper steps to assessing the validity of the instruments.

The student will demonstrate cash handling ability and the steps to balancing a cash drawer by locating errors in the cash till and computer entries.

The student will demonstrate bank sales and service techniques.

BUS 081 California Income Tax Preparation

Prepare Basic California income tax forms 540 and related Schedule CA (540). Students will complete a comprehensive problem requiring preparation of a basic form 540 and Schedule CA (540).

BUS 091 Real Estate License Preparation

The student will demonstrate competence in preparing for the California Real Estate Exam.
Course Learning Outcomes Report

**BUS 094A Small Business Start Up**

Students will be know the advantages and disadvantages of purchasing a franchise.
Students will know the basic components of the business plan.

**BUS 094B Essential Topics for Small Business**

The student will be able to present the final draft of the business plan to potential lenders and investors.

**BUS 094C The New Entrepreneur**

The student will demonstrate the ability to maintain an effective record keeping system.
The student will be able to implement effective management techniques for starting, operating, and maintaining a small business.
The student will demonstrate the ability to recognize an effective bookkeeping and record keeping system for a small business.

**BUS 094D The Law and the Small Business**

The student will demonstrate knowledge of sole proprietorships, partnerships, and various corporate forms.
The student will demonstrate the ability to prepare a sample partnership agreement.

**BUS 094E Marketing and Advertising Strategies for Small Business**

The student will be able to explain how social media is used to promote small business.
The student will demonstrate the ability to prepare a marketing plan for a small business.

**BUS 094F Customer Service Strategies**

The student will demonstrate the ability to evaluate various customer service programs.
The student will demonstrate the ability to design a customer service program for a small business.

**BUS 095A Introduction to Bookkeeping and Accounting**

The student can understand basic financial statements.

**BUS 098V Work Experience: Business and Accounting**

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.
Course Learning Outcomes Report

C S 010 Introduction to Contemporary Mathematics
Upon successful completion of this course the student will be able to use mathematics to understand and solve problems of the type typically encountered by a person living in our society.

CAT 069V Internship: Heavy Equipment-Caterpillar
Student will achieve an objective as defined for specific semester.

CAT 080 Caterpillar Service Industry
The student will be able to use precision measuring tools to identify serviceable parts from worn parts.

CAT 081 Caterpillar Engine Fundamentals
Demonstrate the proper usage of a standard outside micrometer.

CAT 082 Fundamentals of Hydraulics
Properly identify the three pump types.

CAT 083 Caterpillar Engine Fuel Systems
Demonstrate the fuel setting procedure on a 3406B new scroll fuel system.

CAT 084 Fundamentals of Electrical Systems
Student will determine if a starting relay is operating properly in a circuit using Voltage drop readings from a Digital Volt Ohm Meter

CAT 085 Caterpillar Air Conditioning
Upon successful completion of this course, the student will according to industry standards be able to: 1. Explain the basic air conditioning principle of operations. 2. Identify a/c system components and explain operation. 3. Hook up and use the manifold gauge in system diagnostics.

CAT 086 Fundamentals of Caterpillar Power Trains
The student will be able to properly assemble a planetary transmission.

CAT 087 Caterpillar Machine Hydraulic Systems
Demonstrate the ability to test and adjust the Cat 928G wheel loader implement hydraulic system and the LSPC with the hand metering unit steering system.

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Course Learning Outcomes Report

CAT 087A Caterpillar Specialization

The student will write a comprehensive report at the advanced level of the performance rubric on a specialized area of Caterpillar mechanics. 80% of the students will achieve the advanced level.

Based on the Caterpillar industry information from various resources, 100% of the students will demonstrate technical skills in one of the following specialty areas: Powertrains, Electronics, Electric power generation, On-highway truck systems, Under-carriage and Hydraulic systems. These skills will be demonstrated by: 1. Writing a Task Description Report 2. Delivering an oral presentation 3. Performing the skills. Students will score 90% on the Rubric designed for the specialized skill.

The student presents an oral report on a specialized area of Caterpillar mechanics.

The student submits a comprehensive written report on a specialized area of Caterpillar mechanics.

Given a hands-on laboratory final, the student demonstrates advanced knowledge and skills in a specialized area of Caterpillar mechanics.

CAT 087B Caterpillar Specialization

Based on the Caterpillar industry information from various resources, 100% of the students will demonstrate technical skills in one of the following specialty areas: Powertrains, Electronics, Electric power generation, On-highway truck systems, Under-carriage and Hydraulic systems. These skills will be demonstrated by: 1. Writing a Task Description Report 2. Delivering an oral presentation 3. Performing the skills. Students will score 90% on the Rubric designed for the specialized skill.

The student presents an oral report on a specialized area of Caterpillar mechanics.

The student submits a comprehensive written report on a specialized area of Caterpillar mechanics.

Given a hands-on laboratory final, the student demonstrates advanced knowledge and skills in a specialized area of Caterpillar mechanics.

CAT 090 Caterpillar Undercarriage and Final Drive

Demonstrate the proper set up procedure for an open differential.

CAT 091 Caterpillar Machine Electronic Systems

Student will perform a cylinder cutout test.

CAT 092 Caterpillar Engine Performance

Demonstrate the proper usage of the 8T5300 Engine Timing Indicator Group.

CAT 093 Caterpillar Diagnostic Testing

Student will effectively diagnose and repair a transmission shifting complaint.

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Course Learning Outcomes Report

CAT 094 Caterpillar Machine Specific Systems

Demonstrate how to perform testing and adjusting procedures on Caterpillar equipment.

CDEV 021 Child and Adolescent Development

Students will describe the effects of cultural, economic, political and historical contexts on children's development through essays or case studies with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will identify how a child's environment impacts physical, psychosocial, cognitive and language development in the first five years with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will analyze and identify major developmental milestones for children from conception through adolescence in the areas of physical, psychosocial, cognitive, and language development using standard research methodologies with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 025 Observation and Assessment

Students will accurately describe and evaluate the characteristics, strengths and limitations of common assessment tools by critiquing ten written observations for incidences of bias towards children's developmental, cultural and linguistic characteristics at a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will accurately demonstrate systematic observation methods to provide data to assess the impact of the environment, interactions and curriculum on all domains of children's learning and development with at a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will critically compare the purpose, value and use of formal and informal observation and assessment strategies and ethical implications within cultural and social contexts accurately to implement and evaluate six different types of observation methods in at least two different early childhood settings at a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will observe a parent-teacher conference accurately noting the teacher's use of observational data to share and strengthen the family-teacher partnership and assess the value of partnerships with families and other professionals in utilizing interpretations of observational data as it relates to the children's growth and development and effective classroom practices with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will create five play-based activities related to assessment within play-based environments, curriculum and care routines to implement with typically and atypically developing children with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 026 Child, Family and Community

Students will be able to identify and analyze risk factors and/or problems for families at risk in writing and recommend appropriate community resources by evaluating case studies and interviewing community outreach personnel.

Students will demonstrate the ability to discuss the impact of age, gender, diverse abilities, language and culture, racial identity and ethnicity, socio-economic status institutions, the media and public policy on children and families by researching and accurately summarizing in writing at least four web resources that relate to understanding the impact of culture and diversity on early care and education program outcomes.
Course Learning Outcomes Report

CDEV 027 Culture and Diversity in Early Childhood Education

Students will accurately articulate their understanding of multiple theories and impacts of the development of young children's social identity and the implications of those theories through role-playing or/and group activities and discussions.

Students will accurately analyze, by conducting family interviews, various aspects of children's experience as members of families targeted by social bias considering the significant role of education in reinforcing or contradicting such experiences and compare/contrast those biases found to educational experiences.

Students will critically assess the components of linguistically and culturally relevant, inclusive, age-appropriate, anti-bias approaches accurately in promoting optimum learning and development to demonstrate knowledge of appropriate practices in early childhood education settings by developing multiple activity plans for children.

Students will evaluate the impact of personal experience and social identity on current teaching practices by accurately identifying personal experiences that hinder or promote particular teaching methods in a class activity.

CDEV 028 Child Health, Safety and Nutrition

Students will conduct a safety check of a licensed child care center or family child care home using a health and safety checklist provided by the instructor. Students will complete the checklist and summarize their findings in writing of both the classroom and outdoor space according to licensing requirements and health and safety practices discussed in class.

Students will identify practices for preventing the spread of infectious disease and will address appropriate parent communication systems by composing sample letters to families about exposure to a communicable disease and outlining steps taken to prevent and manage infectious illness.

CDEV 029 Early Childhood Experiences: Arts and Sciences

Students will evaluate a minimum of six different commercial learning materials for their developmental appropriateness for preschool children with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will develop a minimum of six developmentally appropriate activities within the areas of art, science, math and technology, health, nutrition, music, creative movement and social studies for preschool children with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 030 Early Childhood Experiences: Language Arts

Students will recognize the importance of the teacher's role as facilitator and demonstrate methods to promote children's development through the presentation of early language and literacy activities with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will develop and implement a collection of appropriate quality children's literacy materials and relate activities to support language and literacy development with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.
Course Learning Outcomes Report

CDEV 031A Principles and Practices of Teaching Young Children

Students will accurately document appropriate guidance of children's behavior using the 15 Guides to Speech and Action through observation of adult/child interactions and through their own application of the guides.

Students will design a developmentally appropriate early education classroom and yard by constructing a schematic and accurately describing the developmental purpose of at least five learning centers in the room and five learning centers in the yard.

Students will justify in a writing exercise or exam essay why access to play is important for all children and describe at least three ways of using a play-based curriculum as a vehicle for developing skills, dispositions, and knowledge.

Students will develop in writing a professional philosophy of early childhood education based on at least one theoretical perspective through investigation of at least three major philosophies of early childhood education.

CDEV 031B Introduction to ECE Curriculum

Students will demonstrate proficiency at planning a developmentally appropriate curriculum by constructing week-long curriculum plan for an early education classroom which includes a minimum of 20 different activities across at least five content areas.

Students will demonstrate familiarity with appropriate materials, equipment and teaching approaches that support optimum learning and development for all young children by constructing a classroom plan which includes inclusive strategies for all children.

Students will accurately identify learning objectives and activities reflective of child assessment information based on observation by designing and implementing a curriculum based on developmental, anti-bias and inclusive principles.

Students will critically analyze elements of appropriate practice by comparing and contrasting play-based curriculum that supports children's cognitive, language, creative, physical and social/emotional development.

CDEV 032A ECE Practicum-Field Experience

Students will critically assess their own instructional experiences and teaching performance to guide and inform future teaching and collaborative practices by completing a performance evaluation that identifies areas of competence, and recognizes areas for needed improvement.

Students will demonstrate competency in developmentally appropriate teaching practices and preparation for the early childhood teaching field by constructing a professional portfolio which exemplifies their knowledge and skills in several areas of competency as an early childhood professional.

Students will evaluate effectiveness of early childhood curriculum, classroom management and teaching strategies, and methods to involve families in children's development and learning in efforts to increase intentionality and improve teaching practices for all children by maintaining a teaching journal which documents specific examples of their instructional experiences and reflections on such practice relevant to theoretical principles of developmentally appropriate practice.
Course Learning Outcomes Report

CDEV 032B ECE Practicum

Students will recognize and understand the six early childhood competency areas.

CDEV 033 Infant Development and Caregiving

Students will describe the formation of secure relationships and justify the importance of attachment in the care-giving situation with infants and toddlers with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will identify, through observation, major physical, cognitive, and psychosocial skills infants acquire in the first two years of life with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Student will utilize two different observation techniques to identify three physical, three cognitive, and three psychosocial skills of typically developing toddlers between the ages of two and three with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 034 Children With Special Needs

Students will create a minimum of three learning materials or classroom experiences that allow children with various types of special needs to participate in classroom routines inside the classroom and/or in the outdoor environment with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will devise a detailed IFSP/IEP meeting process to address an individual child's observed needs in the classroom based on case studies provided in class with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 036 Activities and Environments for School Age Child Care

Students will plan ten developmentally appropriate activities for school age children with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will design and describe a developmentally appropriate indoor and outdoor environment for school age children with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 037 Administration of Child Care Programs

Students will identify appropriate budget line items for child care center budgets.

Students will demonstrate an understanding of Title 22 Community Care Licensing Regulations for child care centers by passing an exam with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will construct an annual operating budget including detailed budget notes for a hypothetical child care center with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.
Course Learning Outcomes Report

CDEV 038 Financial and Personnel Administration in Child Care

Students will construct a plan to recruit and retain employees that includes a job description, and a minimum of three staff orientation activities and five staff development activities with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will develop two budgets, a start-up budget and an annual operating budget, including detailed budget notes for a hypothetical child care center with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 039 Infant Toddler Practicum

Students will document infant/toddler development in two different domains of development using two different observation techniques at least twice during a semester.

Students will plan and implement at least 15 developmentally appropriate activities for infants and toddlers over at least three different domains of development with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will accurately demonstrate the use of appropriate positive guidance techniques with infants and toddlers in at least 75% of their interactions with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 050H Special Studies: Child Development/ ECE

The student will advance abilities and knowledge of a course of studies, developed by the student and supervising instructor and not offered in usual curriculum. Collective course performance target will be discussed once relevant data has been collected.

CDEV 061A Parent Child Learning

The student will design and construct a learning material to help a child reach a previously determined learning goal.

Prepare a plan to achieve a positive home-school partnership.

CDEV 062 Positive Parenting

In several role-play situations, students will demonstrate active listening in addressing common parenting issues alternately assuming the role of parent and the role of the child with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Through observation of inappropriate behavior in a home, school or public setting, students will integrate concepts of growth and development in the handling of a discipline problem with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.
**Course Learning Outcomes Report**

**CDEV 063 Child Discipline**

Upon observing inappropriate behavior in young children, student will identify and justify appropriate guidance techniques with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

The student will be able analyze how the design of the physical environment influences behavior and how it may contribute to inappropriate behavior with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

**CDEV 064 Impact of Violence on Children and Families**

Students will be able to express the importance of self-awareness in the process of facilitating violence intervention strategies.

Students will be able to critically analyze the impact of home, community or media violence on the development of young children.

**CDEV 070 Introduction to Family Child Care**

Students will demonstrate knowledge and application of licensing regulations governing family child care homes in California with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will develop a week-long curriculum plan addressing at least three different domains of development for a mixed age group of children with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

**CDEV 071 Children, Imagination, and Books**

Students will demonstrate their knowledge of how to use children's books to support social-emotional development through planning and presenting appropriate children's books with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will demonstrate the ability to select quality children's literature by preparing an annotated bibliography of 15 -20 quality children's books with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

**CDEV 072 Play and Learning**

The student will develop a play plan for at least two different curriculum areas (math, social studies, science, or language arts) for infants/toddlers; preschoolers; kindergartners or children in grades 1-3 with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Student will select at least ten developmentally appropriate play materials across three domains of development for infants, toddlers, preschoolers and school age children with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

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Course Learning Outcomes Report

CDEV 073 Preschool Art

The student will plan at least five developmentally appropriate art activities for a specific age group and adapt this experience for children with special needs with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

The student will coordinate planned art activities supporting children's learning with state and national learning and accreditation standards with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 074 Preschool Science

The student will construct a weekly lesson plan that integrates science principles into at least four of the following curriculum areas: math, language, social studies, art, music with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

The student will design a developmentally appropriate activity that will allow children to use the scientific process skills of observing, comparing, classifying, measuring, and communicating with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 075 Discovering Child Development

Students will identify stages (infancy, toddlerhood, early childhood and middle childhood) and domains of development (physical, cognitive, and psychosocial).

Students will outline typical physical, cognitive and psychosocial patterns of growth in children birth through age 12.

CDEV 076 Early Childhood Education Adult Supervision

Students will complete (according to the age of children/situation in which student works or observes) either the Early Childhood, Infant/Toddler, School Age or Family Child Care Environmental Rating Scale. Based on the scores, make suggestions for short and long term improvement. Outcome should be completed a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will demonstrate knowledge of adult learning styles to improve communication in an early childhood classroom or family child care home by developing a poster or similar product that presents and corrects common communication issues related to learning styles with a minimum of 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

CDEV 083 Issues in Early Childhood Education

Students will develop at least three implementation strategies for classroom or administrative use to utilize information presented on specific issue addressed with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.

Students will create a resource folder containing information and services available in the community relative to the specific issue addressed with a minimum 60% accuracy. Collective course performance target will be discussed once relevant data has been collected.
Course Learning Outcomes Report

CDEV 093 Work Experience: Child Development and Education

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course. The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

CHEM 001A General Chemistry

Balance and use a chemical equation in a stochiometry problem.
Practice safe laboratory procedures, including the use of basic laboratory equipment and chemicals.
Describe and apply various models of chemical bonding.
Apply the rules of chemical nomenclature to name and write formulas for chemical compounds.
Calculate solution concentrations and relate the various types of concentration measurements.

CHEM 001B General Chemistry

Describe the theories of acids and bases and identify the key similarities and differences.
Use the concepts of kinetics, thermodynamics, and equilibrium to describe the behavior of chemical reactions.
Use the concepts of electrochemistry to solve problems and to construct electrochemical cells in a laboratory experiment.

CHEM 003A Introduction to Chemistry

Classify the various types of chemical reactions.
Calculate solution concentrations and relate the various types of concentration measurements.
Apply the rules of chemical nomenclature to name and write formulas for chemical compounds.
Practice safe laboratory procedures, including the use of basic laboratory equipment and chemicals.

CHEM 003B Introduction to General, Organic and Biochemistry

Students should be able to perform simple acid-base titrations using proper laboratory procedures and safety.
Student should be able to classify and describe various biochemical compounds.
Students must be able to perform simple solution chemistry calculations involving molarity, molality, freezing point depression and limiting reactants in double replacement reactions.
Students should be able to classify and apply various types of organic reactions, including substitution, addition, elimination, condensation and aromatic reactions.
Students must be able to recognize, name and draw structures of molecules which represent the major organic functional group compounds.
Course Learning Outcomes Report

CHEM 010 Exploring Everyday Chemistry

Apply the Scientific Method to understanding and explaining observations.
Describe the use of chemistry in an aspect of everyday life.

CHEM 012A Organic Chemistry

Apply the rules of organic nomenclature to name, give the formula of, and draw compounds. Students must be familiar with both common and IUPAC naming rules.
The student should be able to perform organic procedures using safe laboratory techniques.
Describe the common forms of organic molecular isomerism, including structural, conformational, and optical, and give examples of each.
The student should be able to classify and apply various types of organic chemical reactions which involve alcohols, ethers, alkyl halides and aromatic compounds, and follow the progress of reactions using infrared spectroscopy.

CHEM 012B Organic Chemistry

Students should be able to read and use NMR spectra to help in the determination of the structure of unknown organic compounds.
Students should be able to recognize and classify the different types of amino acids used in protein synthesis and how their structures might appear in different pH solutions.
Students should be able to identify and use in synthesis problems the major types of organic reactions used to synthesize each of the oxygen containing organic functional group compounds such as alcohols, ethers, aldehydes, ketones, carboxylic acids, and esters.
In the lab portion of the course students must be able to design and carryout a multi-step organic synthesis. They must be able to relate procedures and techniques they learned during the first semester of Organic chemistry to this task.
Students should be able to apply typical in vitro organic reactions to biological compounds which contain the same functional groups.

CHEM 050H Special Studies: Chemistry

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

CHIN 001 Elementary Chinese

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.
Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.
Course Learning Outcomes Report

CHIN 002 Elementary Chinese

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

CHIN 003 Intermediate Chinese

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

CHIN 004 Intermediate Chinese

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

CHIN 050H Special Studies: Chinese

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

CHIN 075 Selected Topics: Chinese

Will vary by topic course developed.

CIVIL 003 Autobiography of Civilization

Student should be able to identify historical roots of humanities through the arts
Student should be able to associate certain forms within literature, art, music, and architecture with certain time periods
Student should be able to trace contemporary features of areas within the humanities to its historical and cultural roots

COM ST 001A Fundamentals of Speech

Students will be able to utilize critical thinking skills by developing a speech outline using one of the basic speech models such as Monroe's Motivated Sequence, The Toulmin Model or Problem-Solution speech structure.
Students will know how to create an audience-centered message by analyzing their audience and creating an audience adaptation plan that is incorporated into the speech outline.
Students will be able to properly research quality sources and reference them in their speeches by citing them orally, in-text, and on a reference list.
Students will be able to analyze and critique the preparation and performances of themselves and others in speeches by completing comprehensive student evaluation forms. Students from the audience will rotate as evaluators for the speech in class. These students will fill out speech evaluations that will be made available both orally and in writing after the speech.
Students will be able to clearly present prepared speeches by researching, outlining, and practicing their speeches.
Course Learning Outcomes Report

**COM ST 001B Advanced Public Speaking**

Students will enhance their vocal and physical delivery skills and their ability to present public speeches at an advanced level of effectiveness.

Students will be able to cite sources in their speeches at an advanced level of effectiveness.

Students will be able to critique speeches at an advanced level of effectiveness.

Students will enhance their ability to communicate in a group or team environment.

Students will be able to utilize advanced level critical thinking skills.

Students will understand how to create an audience-centered message at an advanced level of effectiveness.

Students will be able to present speeches in front of an audience utilizing an advanced level of organization.

**COM ST 002 Oral Interpretation of Literature**

Students will be able to effectively critique literature performances.

Students will utilize effective nonverbal performance skills when performing literature.

Students will be able to identify and define various genres of literature (prose, poetry, drama).

Students will utilize effective paralanguage and vocal variety to convey messages.

**COM ST 003 Interpersonal Communication**

Given an interpersonal conflict scenario, the student will identify conflict styles and recommend an appropriate solution in an oral and written response.

Outcome: Given an interpersonal conflict scenario, the student will identify conflict styles and recommend an appropriate solution in an oral and written response.

Given an interpersonal conflict scenario, the student will identify conflict styles and recommend an appropriate solution in an oral and written response. Student will demonstrate his/her competency at the intermediate level of the rubric.

Given an interpersonal conflict scenario, the student will identify conflict styles and recommend an appropriate solution in an oral and written response. Student will demonstrate his/her competency at the intermediate level of the rubric.

**COM ST 004 Introduction to Human Communication**

Course Outcome: Upon successful completion of this course students will demonstrate their ability to effectively work in a small group by planning, researching, creating, and delivering a successful group presentation.

Upon successful completion of this course students will be able to present an individual speech in front of an audience utilizing clear organization, effective delivery, and proper source citation.

Upon completion of this course students will demonstrate their ability to effectively utilize a variety of interpersonal communication skills including conflict resolution, listening, vocal delivery, and nonverbal communication.

Upon successful completion of this course, the student will be able to: Develop and practice effective communication skills in a variety of communication contexts.
Course Learning Outcomes Report

COM ST 005 Argumentation and Debate

Students will be able to identify components of arguments and their formal function within a debate and apply the knowledge as a skill used in composing cases.

Students will research current events, philosophical, and ethical issues and apply the research in preparation for debates. Students will be able to analyze and critique the preparation and performances of themselves and others in debates by completing comprehensive student evaluation forms. Students from the audience will rotate as critics for the debate in class. These critics will fill out ballots (who won/loss and why) that will be made available both orally and in writing after the debate.

Students will be able to clearly present prepared oral arguments. They will respond to challenging questions both constructively and creatively, and refute arguments from their opposition.

COM ST 006 Business and Professional Communication

Upon successful completion of this course the student will be able to develop and deliver an organized and effective business presentation by researching, designing and delivering an effective business presentation.

Upon successful completion of this course the student will enhance their ability to communicate effectively in a group or team environment by working in teams or groups to reach a consensus or to manage a conflict.

Upon successful completion of this course the student will be able to demonstrate effective job interviewing skills by selecting a potential job, developing an appropriate resume, and participating in a simulated job interview.

COM ST 007 Intercultural Communication

Specific Objectives: Upon successful completion of this course, the student will be able to: Effectively negotiate an intercultural communication transaction.

Upon successful completion of this course, students will demonstrate their ability, through interviews, observation and research, to recognize and differentiate various cultural values of specific cultural groups.

Specific Objectives: Upon successful completion of this course, the students will demonstrate their awareness that idiomatic language may cause barriers in intercultural communication by recording the slang and idiomatic language that they use throughout one day. Students will practice written and/or oral conversations that are free of idiomatic language.

Upon successful completion of this course, students will demonstrate their understanding of how stereotyping, prejudice and discrimination contribute to institutional racism by analyzing the behaviors illustrated in critical incidents.

COM ST 008 Small Group Communication

Upon successful completion of this course students will demonstrate their ability to effectively plan a group meeting agenda and to collaborate in an organized and productive meeting.

Upon successful completion of this course students will demonstrate their understanding of the nature and sources of group conflict and their ability to effectively manage conflict.

Upon successful completion of this course students will demonstrate their ability to effectively work in a small groups by planning, researching, creating, and delivering a successful group presentation.
Course Learning Outcomes Report

COM ST 009 Introduction to Communication Theory

Upon successful completion of this course, students will be able to describe the similarities and differences in the two distinct approaches to communication theory - objective and interpretive - by listing at least 7 out of the ten criteria that a researcher would use to choose one approach over the other.

Upon successful completion of this course, students will demonstrate their ability to analyze and understand the persuasive implications of public rhetoric by analyzing a public speech.

Upon successful completion of this course, students will be able to recognize the symbolic nature of communication and explain, using a transactional communication model, how form and function in symbols between sender(s) and receiver(s) affect the message content, context and channel.

Upon successful completion of this course, students will be able to conduct a thorough literature search for the purpose of completing a rhetorical analysis of a public address.

COM ST 010 Storytelling: Interpreting Children's Literature

Develop an appreciation and understanding of various cultural influences embedded in children's literature.
Enhanced ability to utilize vocal and physical delivery to convey meaning.
Students will enhance their writing and critiquing skills.
Students will develop and improve performance skills.

COM ST 011 Dialogues in U.S. American Culture

Upon successful completion of this course students will demonstrate their ability to identify the cultural patterns of a specific U.S. American cultural group (other than their own) by writing an ethnographical report.

Upon successful completion of this course students will demonstrate their ability to delineate the strengths and the liabilities of culturally diverse teams by comparing homogeneous team dynamics to heterogeneous team dynamics.

Upon successful completion of this course students will demonstrate their ability to recognize barriers to effective communication among culturally diverse people by analyzing and discussing critical incidents.

Upon successful completion of this course students will demonstrate their ability to explain why diversity skills are an important aspect of effective communication in an ever-changing US American cultural landscape by identifying at least three distinct values or norms for at least three US American ethnic groups.

COM ST 015 Selected Topics: Communication Studies

Will vary with specific topic(s)
The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

COM ST 050H Special Studies: Communication Studies

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.
Course Learning Outcomes Report

COM ST 052 Speech Activities and Advocacy

Given a specific audience and setting, students will present a speech utilizing effective physical and vocal delivery skills based on their level of experience per the scoring rubric. The minimum expectation for first semester students is the Novice Level and all others, the Open Level.

Given a specific audience and setting, students will demonstrate their knowledge and skills in evaluating/judging a speech performance. Students will evaluate themselves and peer speeches for appropriateness and effectiveness based on their level of experience per the scoring rubric. The minimum expectation for first semester students is the Novice Level and all others, the Open Level.

Given the specific speech event (limited prep, platform, or interp), audience and setting, students will research a topic and write an effective speech utilizing clear organization and proper source citations based on their level of experience per the scoring rubric. The minimum expectation for first semester students is the Novice Level and all others, the Open Level.

COMM DIS 001 Speech, Language and Hearing Development

The student will be able to define the components of language in terms of: phonology, syntax, morphology, semantics and pragmatics at a beginning level on test items.

The student will be able to summarize the typical sequence of speech, language and hearing development across the lifespan at an introductory level based on a department designed rubric for test items.

The student will be able to transcribe a language sample including error patterns, grammatical structures used and MLU at introductory level for the discipline based on a department designed rubric for this project.

The student will be able to summarize the many theories and theorists of speech, language and hearing development at a basic level according to a department designed rubric for test items.

COMM DIS 002 Introduction to Communication Disorders

Students will be able to analyze the emotional and social effects that communication and swallowing disorders have upon clients, families and the community on a written essay exam scored by a rubric.

Students will be able to summarize the entry level educational and licensure requirements needed to pursue a career in speech language pathology and audiometry, which is also known as communication sciences and disorders on a multiple choice exam scored by an answer key.

Students will be able to summarize the basic speech, language, cognitive, swallowing and hearing disorders treated by speech language pathologists and audiologists based on multiple choice exams scored by an answer key.

COMM DIS 003 Communication Disorders: Therapy Analysis and Field Practice

The student will be able to accurately describe in short paragraphs: therapy components, goals, and treatment in therapy sessions including the identification of client needs as they relate to client success and explain the role of the speech-language pathology assistant (SLPA) in enhancing therapy sessions. Student will achieve basic level on a department designed rubric.

The student will be able to demonstrate the knowledge of the critical components of therapy sessions across disorders as observed during fieldwork including: severity, goals, session structure, client therapist positioning, therapy strategies and behavior modification. Student will achieve at least 70% on an written exam of critical elements of therapy sessions based on a department designed rubric.
Course Learning Outcomes Report

COMM DIS 005 Communications Disorders: Materials and Procedures

The student will be able to distinguish the scope of practice for Speech Language Pathology Assistants (SLPAs) as delineated by the American Speech and Hearing Association (ASHA) and the California State Board of Speech Language Pathology, Audiology and Hearing Aide Dispensers (SLPAB). Students will achieve an intermediate level based on a department designed rubric for evaluating accurate and complete written descriptions of the scope of practice for SLPAs according to ASHA and the CA SLPAB Board.

The student will be able to create appropriate therapy materials for specific disorders and state the rationale for their use. Students will achieve a basic level on a department assigned rubric.

The student will be able to recognize and use International Phonetic Alphabet (IPA) symbols to transcribe spoken speech into written forms. Students will achieve at least 70% accuracy on written assignments translating spoken speech into words written in IPA and transcribing words written in Standard English into the IPA.

The student will be able to demonstrate appropriate progress summary report writing. Students will achieve a basic level on a department assigned rubric for appropriately identifying information and content for therapy progress summary reports.

COMM DIS 007 Communication Disorders: Service Delivery Issues

Students will be able to formulate appropriate tasks, skills, ethical behavior and responsibilities needed by the speech language pathology assistant to assist in the service delivery of therapy to clients in all clinical settings. On a written assignment, students will achieve a basic level based on a department designed rubric.

Students will be able to summarize the therapeutic process for clients in terms of how learning occurs through behavior change and how this information is applied to both assessment and intervention in individuals presenting with communication disorders. On a written assignment, students will achieve a basic level based on a department designed rubric.

Students will be able to summarize remediation concepts and principles as they apply to linguistic and cultural variations that pertain to the management of treatment for individuals with communication disorders. On a written assignment, students will achieve an intermediate level based on a department designed rubric.

COMM DIS 009 Communication Disorders: Assessment and Remediation

The student will be able to demonstrate knowledge of various communication disorders including etiology and suggest appropriate remediation techniques. Students will achieve a minimum of 70% on exams and written assignments based on a department designed rubric.

The student will be able to assist in the management of speech-language pathology programs and implement treatment protocols as prescribed by the Supervising Speech Language Pathologist. The student will demonstrate appropriate advanced skills based on the performance based competency assessment based on a department designed rubric.

CONST 054 Estimating and Specifications

Student will estimate from a roof plan the amount of roofing material needed.

Student will estimate from a foundation plan the amount of concrete needed for the foundation.

Student will estimate from a floor plan the amount of framing lumber to be used for framing the walls of the home.
Course Learning Outcomes Report

CONST 069V Internship: Construction Technology

Upon completion of this course, the student should be able to get a job in the field of construction and be successful.

CONST 072A Beginning Residential Carpentry

Plumb and align walls so that the roof, doors, windows and interior trim can be installed correctly.
Given a plot plan from a set of blue prints the student will establish outside corners of the home on a building lot.
Install concrete forms and reinforcements according to the foundation plan and building code.
Install roof trusses according to trusses specifications and building code.
Layout studs, window headers, door headers and hold down post according to a blue print and building code.

CONST 072B Intermediate Residential Carpentry

Student will measure, cut and install drywall.
Student will install finish trim.
Student will install an interior door.

CONST 072C Advanced Residential Carpentry

Install door hardware correctly.
Install roofing material according to the manufactures specifications and building codes.
Install siding material according to manufactures specifications and building codes.
Install hardwood flooring according to the manufactures specifications.

CONST 074A Introduction to Cabinetmaking

The student will be able to explain the careers and employment opportunities available in the cabinet making industry.
The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
Solve basic cabinet making problems using measuring devises, mathematics and standard layout procedures. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074B Fundamentals of Cabinetmaking

The student will be able to define and demonstrate the uses of basic hand tools used in the cabinet making industry.
The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
Describe the characteristics, application and demonstrate the use of basic portable power tools used in the cabinet making industry.
The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
CONST 074C Cabinetmaking
Interpret basic shop drawings, sections, details and specification for building cabinets. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
The student will be able to solve cabinet making problems for areas, volumes, angles and right triangles using mathematics. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074D Cabinetmaking and Millwork
Describe and contrast the characteristics and application of different types of millwork. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
The student will be able to layout a rod for cabinet based on a set of shop drawings. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074E Cabinetmaking and Millwork
Describe the properties of the most common lumber used in cabinet construction. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
The student will be able to contrast the characteristics and application of hardwoods and softwoods. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074F Cabinetmaking and Millwork
The student will be able to analyze the special requirements for commercial cabinets and store fixtures. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
Compare and contrast the different standards for commercial and residential millwork. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074G Cabinetmaking and Millwork
The student will be able to analyze the shop drawing to determine the type, style and requirements for construction. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
Determine the production processes to be utilized in the construction process. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 074H Cabinetmaking and Millwork
Layout the rod and prepare the cut list. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
The student will be able to analyze the shop drawing to determine the processes and equipment to be utilized. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.
CONST 075 Selected Topics: Construction Technology

At the end of the course the student will be able to look at a specific part of a building project and by using critical thinking skills see what procedures are needed to complete the task.

CONST 075A Residential Structure Weatherization

The student will demonstrate the knowledge and skills to identify structural weatherization deficiencies in conditioned and non-conditioned spaces based upon industry standards. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

The student will perform a hands on demonstration of the appropriate safety and use of industry specific tools to identify structural temperature zones, gas emissions, and other structural weatherization deficiencies. The student will perform this activity with 100 percent accuracy. 80 percent will achieve this outcome.

CONST 087A Carpentry Specialization

A student will complete the project agreed upon using plans, building codes and other resources.

CONST 089 Methods and Planning

The student will build a scale model of a small home according to a building plan.

Student will estimate amount of concrete for a foundation by taking measurements from a foundation plan.

CONST 098V Work Experience: Construction Technology

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

CS 011 Fundamentals of Computer Science

Ability to identify, use properly and describe the advantages and disadvantages of current hardware devices and software used for input, processing, output, storage, communication and networking.

Knowledge of 150 to 200 terms commonly used in the Computer Science discipline.

Ability to discuss the sociological, physiological, and psychological impacts of technological change.

Ability to create a simple computer program using a high level computer language.

Ability to utilize a word processor, electronic spreadsheet, presentation software, database and a file manager to create beginning level files.
Course Learning Outcomes Report

CS 012 Introduction to Management Information Systems
This will be evaluated using a discipline developed rubric based on acceptable programming standards. Students must achieve a score of 70% or higher on the rubric. Faculty who teach this course will collaborate with others in the discipline group and review collective course performance of this outcome.

CS 015 Topics in Computer Science
Varies by topic.

CS 016 Introduction to Game Design
Students will create their own 2D/3D computer game.

CS 019 Introduction to E-Commerce
Demonstrate the ability to identify and discuss the advantages of several Internet-related technologies, such as EDI, Internet protocols, HTML, web servers, pop-up windows, and virtual communities as assessed by the achievement of 70% or more on tests, quizzes, and written or computer-based assignments. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

CS 032 Introduction to Computer Operating Systems
Students will demonstrate understanding of how an operating system interact with users and manages its memory, processes, storage and its various devices by answering essay questions.

CS 033 Systems Analysis and Design
Upon successful course completion students will be able to demonstrate the use Systems Development Life Cycle (SDLC) approach for the analysis and design of computer systems.

CS 042 UNIX
Students will demonstrate understanding of how the Unix Operating systems functions by satisfying user's requestion in a network environment by answering essay questions.

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CS 050H Special Studies: Computer Science
Greater understanding and application of computer science principles and skills

CS 054 Fundamentals of Data Communications
Upon successful course completion students will be able to (1) demonstrate fundamental knowledge of data communications and its terminology and (2) will be able to use reference materials to remain up-to-date in the field of data communications.

CS 056 Networking Essentials
Students will demonstrate understanding of basic networking diagnostics by answering essay questions that explains specific problem(s) in a network and thus provide possible answers to remedy the problem(s).
Students will demonstrate understanding of basic networking design by answering essay questions that explains a specific network requirements and thus provide recommendations for the topology, architecture, protocols, software and hardware needed for the network.

CS 069V Internship: Computer Science
Student will improve his/her job skills utilizing classroom learning objectives from the related course.

CS 070 Introduction to Internet
Upon successful completion of this course, the student will apply the fundamental concepts of the Internet to retrieve and send information.

CS 075 Applied Computer Science Principles
Able to resolve simple computer hardware problems and assist users with software including how to use, debug, and program operating systems and applications.
Able to work in the Information Technology (IT) industry as a help desk specialist.

CS 076 Topics in Computer Science
Will vary with specific topic(s).
Course Learning Outcomes Report

CS 077 Introduction to On-line Courses

Upon successful completion of this course, the student will use the tools required to successfully complete an online course.

Upon successful completion of this course, the student will use basic word processing tools such as create, edit (cut, copy, and paste), and save a word processing document.

CS 098V Work Experience: Computer Science

Student will improve on the job site utilizing classroom learning objectives from the related course.

CSA 018 Microcomputers and Small Business Applications: Apple-Mac

Use a database management application program on a Macintosh computer.

Use a spreadsheet application program on a Macintosh computer.

Operate an Apple-Macintosh microcomputer to process and communicate electronic information effectively.

Use a word processing application program on a Macintosh computer.

CSA 020 MS Word, Excel, and Access

Students will be able to construct a newsletter.

Students will be able to produce a mailing list compiled with the Mail Merge tool to produce labels for mailing a newsletter.

CSA 023 MS Access: Concepts and Applications

Demonstrate knowledge of and ability to use Access in a day-to-day work environment simulation.

CSA 035 Multimedia Presentations

Students will be able to use the tools of a presentation software to produce a presentation for a specific purpose and audience.

Students will be able to identify the design elements of a slide presentation developed using good presentation design elements.

CSA 045 Microsoft Windows

Upon successful completion of this course, the student will be able to demonstrate how to create, delete, rename, move, and copy a folder used in an efficient and effective application, user, or program file management system.

Using an application document, the student will be to create and name a document and save the document into a folder created to save the document inside the folder.
Course Learning Outcomes Report

CSA 081A Microsoft Word I

Use spell checker and paragraph formatting.
Use the application Microsoft Word to open, create, and print a basic business document.

CSA 081B Microsoft Word II

Upon successful completion of this course, the student will be able to create a flier with formatted text and using WordArt, a simple chart, SmartArt, a table, or drawing objects.
Upon completion of this course, the student will be able to produce a newsletter using WordArt, multiple columns, formatted text, tables and graphics to produce a newsletter.

CSA 081C Microsoft Word III

Upon completion of this course, the student will be able to create a Word outline from a Presentation document.
Upon completion of this course, the student will be able to integrate a Access database table into a Word document to create envelopes and labels.

CSA 082A Microsoft Excel I

Upon completion of this course, the student will use functions such as SUM, AVERAGE, MIN, and MAX to perform calculations in a worksheet.
Upon completion of this course, the student will be able to create, format, modify, and print charts based on worksheet data.

CSA 082B Microsoft Excel II

Students will be able to use multiple worksheets to consolidate data.
Students will be able to use and create workgroup collaboration and templates.

CSA 082C Microsoft Excel III

Upon completion of this course the student will be able to make an informed business decision based on "what if analysis."
Upon completion of this course the student will be able to import an Excel spreadsheet to generate a table in Access.

CSA 083A Microsoft Access I

Demonstrate knowledge of and ability to use Access in a day-to-day work environment simulation.
Course Learning Outcomes Report

CSA 083B Microsoft Access II

Upon completing this course, the students will understand the difference between a table and a form to collect data.
Upon completing this course, the students will be able to create a form.

CSA 084A Microsoft PowerPoint I

Students will be able to move, copy, and delete slides within a presentation.
Students will be able to construct a basic presentation.

CSA 084B Microsoft PowerPoint II

Students will create a presentation with graphics.
Students will create a presentation with sound.

CSA 085A Basic Microsoft Word

Use spell checker and paragraph formatting.
Use the application Microsoft Word to open, create, and print a basic business document.

CSA 085B Intermediate MS Word

Upon completion of this course, the student will be able to produce a newsletter using WordArt, multiple columns, formatted text, tables and graphics to produce a newsletter.
Upon successful completion of this course, the student will be able to create a flier with formatted text and using WordArt, a simple chart, SmartArt, a table, or drawing objects.

CSA 086A Basic MS Excel

Upon completion of this course, the student will use functions such as SUM, AVERAGE, MIN, and MAX to perform calculations in a worksheet.
Upon completion of this course, the student will be able to create, format, modify, and print charts based on worksheet data.

CSA 086B Intermediate MS Excel

Upon completion of this course, the student will be able to produce a newsletter using WordArt, multiple columns, formatted text, tables and graphics to produce a newsletter.
Upon successful completion of this course, the student will be able to create a flier with formatted text and using WordArt, a simple chart, SmartArt, a table, or drawing objects.
Course Learning Outcomes Report

CSA 087A Basic MS Access
Demonstrate knowledge of and ability to use Access in a day-to-day work environment simulation.

CSA 088A Basic MS PowerPoint
Students will be able to move, copy, and delete slides within a presentation.
Students will be able to construct a basic presentation.

CSA 095A Computers for Beginners
Develop adequate skill in using a personal computer to process and manage electronic information effectively.

CSN 015 Topics in Computer Science Networking
Student learning outcomes to be determined by instructor and will vary by topic.

CSN 040 Information Security Fundamentals
Students will demonstrate understanding concept of Information Security and Assurances by answering essay questions in assignments, projects and exams.
Students will demonstrate understanding how to secure information in a computer by configuring a computer in the lab to withstand virtual and simulated attacks.

CSN 041 Implementing Network Security and Counter Measures
Able to evaluate, implement and manage secure remote access computer technologies.

CSN 058A Introduction to Desktop Operating Systems
Students will demonstrate understanding of how different components of a desktop operating system such as Windows 7 functions by answering essay questions.
Students will demonstrate understanding of how to configure a desktop operating system such as Windows 7 by installing software and/or re-configure to system to work correctly.

CSN 058B Microsoft Windows Server
Students will demonstrate understanding of how components of a Windows Server software operates by successfully propose a solution to a problem, and then proceed to configure it to work as designed.
Students will demonstrate understanding of basic networking concepts and how the components of a Windows Server software functions by answering essay questions.
Course Learning Outcomes Report

CSN 058C Implementing Windows Network Infrastructure

Students will demonstrate understanding of how to configure a Windows Server software to server clients across geographical areas, and to propose a solution for a problem in Wide Area Network running under Windows Server software.

Students will demonstrate understanding of how different components of a Windows Server functions across a Wide Area Network by answering essay questions.

CSN 058D Implementing Windows Active Directory Services

Students will demonstrate understanding of how to configure Windows Server software to service clients across geographical areas and to propose solutions using Group Policy and Active Directory Service.

Students will demonstrate understanding of how Windows Server works across the Wide Area Network using Group Policy and Active Directory Service by answering essay questions.

CSN 060 Network Security

Students will demonstrate understanding how to secure a computer network by configuring a computer, routers and firewall in the lab to withstand virtual and simulated attacks.

Students will demonstrate understanding concept of Network Security by answering essay questions in assignments, projects and exams.

CSP 017 Introduction to Programming Concepts and Methodologies

Apply the principles of logic and programming concepts to develop specific structured solutions for gaming, business, scientific and mathematics problems.

Identify the information input requirements, synthesize the algorithmic steps needed to transform the data input into the required output information, and organize the output format to facilitate user communication.

CSP 025 Assembly Language Programming

Students will demonstrate the ability to use assembly language to write programs.

Students will demonstrate understanding of how different data types are actually stored in memory in Binary format by answering essay questions.

CSP 026A Java Programming

Demonstrate an understanding of the following programming concepts in Java language Object-Oriented Programming Variables and Constants Common Controls and Interface Design Data Types Conditional, Relational, Logical and Bitwise Operators Algorithm Development Output Format Arithmetic File Input and Output Decisions Looping Functions and Parameter Passing Arrays and Addresses Sorting and Searching String Manipulation

Demonstrate an understanding of testing and validating output.

Demonstrate good programming standards including standard naming conventions for variables, procedures and functions where appropriate using structured code and comments.

Demonstrate the ability to design a programming solution in Java language that will meet a program specification.

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CSP 026B Data Structures with Java

Demonstrate an understanding of the following advanced Java programming concepts Object-Oriented Programming Class & Object File Handling Graphics Collection Framework Data Structures, Lists, stacks, and Queues Multithreading Networking in Java Program Java Database Programming

Demonstrate an understanding of testing and validating output.

Demonstrate good programming standards including standard naming conventions for variables, procedures and functions where appropriate using structured code and comments.

Demonstrate the ability to design a programming solution in Java language that will meet a program specification.

CSP 028A Visual Basic .NET Programming

Demonstrate the ability to design a programming solution in Visual Basic.NET language that will meet a program specification.

Course Outcome: Demonstrate good programming standards including standard naming conventions for variables, procedures and functions where appropriate using structured code and comments.

Demonstrate an understanding of testing and validating output.

Demonstrate an understanding of the following programming concepts in VB.NET language Object-Oriented Programming Variables and Constants Common Controls and Interface Design Data Types Conditional, Relational, Logical and Bitwise Operators Algorithm Development Output Format Arithmetic File Input and Output Decisions Looping Functions and Parameter Passing Arrays and Addresses Sorting and Searching String Manipulation

CSP 028B Advanced Visual Basic .NET Programming

Demonstrate the ability to design a programming solution in Visual Basic .NET that will meet a business requirement.

Demonstrate an understanding of the following programming concepts in Visual Basic .NET Object Oriented Programming Classes Namespaces, Scope and Accessibility File Handling Windows Database Applications Web Forms Web Services Collections Data Structures, Stacks, Queues, Hash Tables

Demonstrate good programming standards including standard naming conventions for variables, procedures and functions where appropriate to structure code, and comments.

Demonstrate an understanding of testing and validating output.

CSP 029A Pascal Programming

Demonstrate an understanding of testing and validating output.

Demonstrate good programming standards including standard naming conventions for variables, procedures and functions where appropriate to structure code, and comments.

Ability to design a programming solution in Pascal that will meet a business requirement.

Demonstrate an understanding of the following programming concepts in Pascal Variables and Constants Data Types Conditional and Relational Operators Algorithm Development Output Format Arithmetic File Input and Output Decisions Looping Functions and Parameter Passing Arrays

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CSP 031A C++ Programming I

Students will demonstrate the ability to provide test cases for software testing and debugging non-working programs.
Students will demonstrate the ability to design and write algorithms to a given solvable problem.
Students will demonstrate the ability to write C++ programs.

CSP 031B C++ Programming II

Students will demonstrate understanding of how objects are created from class specifications by answering essay questions involving class diagrams.
Students will demonstrate the ability to use Object-Oriented concepts, ADT and necessary functionalities to write programs in C++.

CSP 043A Database Design and Implementation

Students will demonstrate understanding of data modeling by creating Entity Relationship Diagram (ERD) from given requirements in essay type questions.
Students will demonstrate understanding of how data will be extracted from one or multiple tables in a given database by writing SQL commands and/or using Graphical user interface.
Students will demonstrate understanding of database implementation by implementing a relational database from given design document/diagram.

CSP 045 Web Database Programming with PHP and MySQL

Students will demonstrate the ability to provide create a relational database with multiple tables using mySQL.
Students will demonstrate the ability to develop a dynamic website that uses PHP to access data in a mySQL database.

CSW 021 JavaScript Programming

Demonstrate the ability to create, test, and debug Javascript code in web pages to match specifications as evaluated by a rubric and whether the program produces the required results. Successful achievement requires 70% score on examinations, quizzes, and computer projects and homework. After analyzing information (e.g., assessments, pedagogy, assessment activity, assessment instrument, outcome), collective course performance shall be discussed.

CSW 022 Computer Interface and Web Design

Demonstrate the ability to articulate and apply functional design principles to web pages and website design as evidenced by a score of 70% or better on written assignments, computer projects, quizzes, and/or tests.

CSW 023 HTML for Web Publishing

Demonstrate the ability to create, modify, test, and correct HTML-based web pages that include formatting of text, addition of images and image maps, multimedia files, use of tables and frames, forms, Javascript and XML functionality, internal and external style sheets, ordered and unordered lists, and similar HTML features as evaluated using rubrics, run-time tests, and objective tests. A minimum of a 70% score on rubrics, examinations, and quizzes is required to demonstrate achievement of this outcome. After analyzing information (e.g., assessments, pedagogy, assessment activity, assessment instrument, outcome), collective course performance shall be discussed.
Course Learning Outcomes Report

**CSW 034 Introduction to Adobe Go-Live**

Upon successful course completion students will be able to demonstrate (1) a fundamental knowledge of Management Information Systems (MIS) and its terminology and (2) will be able to use reference materials to remain up-to-date in the field of MIS.

**CSW 036 Microsoft FrontPage**

Upon successful course completion students will be able to Design and produce visually attractive, usable and accessible Web contents using Microsoft FrontPage software.

**CSW 037 Web Page Development**

Upon successful course completion students will be able to Design and produce visually attractive, usable and accessible Web contents using Fireworks software.

**CSW 038 Web Animation with Flash**

Upon successful course completion students will be able to Design and produce visually attractive, usable and accessible Web contents using Flash software.

**CSW 039 Dreamweaver**

Demonstrate the ability to design and produce visually attractive, usable and accessible Web pages and sites using Dreamweaver software as determined by: 1) Completion of computer and software-based projects that conform to stated criteria and specifications is required. 2) Satisfactory performance (70% or better) on objective, essay, or production-oriented examinations and quizzes.

**CUL ART 001 Introduction to Hospitality Industry**

Student will learn the process for resume writing, generating a cover letter.

**CUL ART 003 Sanitation and Safety**

Student will be able to identify proper techniques for labeling and storing products in the kitchen. Student will be able to identify types of microorganisms that could create food borne illness. Student will be able to discuss proper temperature for handling and storing food.

**CUL ART 004 Food and Beverage Cost Technologies**

The student will be given a recipe and will have to calculate the current yield. They will then be given a new yield and will have to calculate the conversion to fit that yield at 100% accuracy. 80% of students will achieve this outcome.

Given a recipe and cost sheets the student will determine food and labor cost percentages at 100% accuracy. 80% of students will achieve this outcome.

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CUL ART 005 Commercial Food Preparation
The student will demonstrate safe knife skills and proper cooking techniques with observing all state guidelines of sanitation.

CUL ART 007 Baking
Given a specific recipe, the student will correctly convert and follow the recipe for the desired yield. The student will produce three to four baked goods demonstrating appropriate techniques which follow industry standards.

CUL ART 008 European Pastry Production
The student will demonstrate proper mixing methods for European pastry production.

CUL ART 009 Restaurant Operations
The student will demonstrate competence in each of the areas of retail food production and service through participation in the campus restaurant.

CUL ART 011 Menu Planning
The student will be able to develop and analyze a demographic study for restaurant menu and facility development. Student will be able to develop a menu based on selected restaurant theme.

CUL ART 013 Purchasing and Receiving
Student will demonstrate the ability to accurately write specification sheets for certain products as given by instructor. Students will demonstrate the ability to describe four major meat animal carcass during a practical lab exercise. Students will demonstrate the ability to purchase appropriate equipment and supplies for a new food service business demonstrating safety, sanitation and cost-effectiveness principles.

CUL ART 015 Selected Topics: Culinary Arts
The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

CUL ART 016 Gastronomies of the World
Upon completion of this course the student will demonstrate the ability to identify food products from different cultures. Upon completion of this course, the student will be able to discuss the influence of food from other cultures and countries upon the American diet. Upon completion of this course the student will demonstrate the ability to describe the role of food in historical and cultural development.
**Course Learning Outcomes Report**

**CUL ART 019 Kitchen Management**

75% of students will achieve 80% of the Kitchen operation skills on the Lab Evaluation Check Sheet.

80% of the students will demonstrate competency of 80% of the skills listed on the course Skills Achievement Check List.

**CUL ART 025 Food Service Management**

Student will prepare a training plan (one unit of training) for a restaurant's newest employee, a breakfast server. Instructions include: 1. Get the sample job description for a breakfast server. Choose one task from the job description, for example: 2. Preparing beverages, fountain drinks, and other food items. 3. Use the format in Figure 8.4 (Chapter 8) of your textbook to prepare the plan. 4. Include a brief (200-300 words) summary explaining the rationale behind your training plan.

**CUL ART 029 Beverage Management**

The student will prepare an assigned beverage in a classroom demonstration. Students must achieve 17 out of 25 points on the grading rubric. 70% of students will achieve this outcome.

The student will identify financial, safety and legal aspects of the beverage industry and beverage management in hospitality settings through written examination questions. This will be done with 70% accuracy by 75% of the students.

**CUL ART 050H Special Studies: Culinary Arts**

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

**CUL ART 071 Plated Desserts**

80% of students will achieve a minimum of 70 out of 100 points for the production of two unique dessert ideas which will be evaluated utilizing the plated dessert rubric.

**CUL ART 072 Retail Bakery Management**

70% of students will achieve a grade of 70% or higher in producing 3-4 products for a retail bakery based on the retail baking assessment rubric.

70% of students will achieve a grade of 100% in costing out the menu for a retail bakery based on the retail baking costing rubric.

**CUL ART 073 Garde Manger**

Upon completion of this course, the student will be able to demonstrate the preparation of a variety of foods typically prepared in the cold kitchen with appropriate garnishes.
Course Learning Outcomes Report

CUL ART 080 Selected Topics: Culinary Arts

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

CUL ART 080Z Wedding Cake Design

Students will create a wedding cake photographic journal of the wedding cakes designed in the class.

Given a scenario with client requesting various tastes and requests with a set budget, the student creates a plan to fill the needs.

Given a typical wedding cake scenario, the student will produce a finished product appropriate for the event.

CUL ART 082 Garnishing and Food Presentation

Upon completion of this course, student will demonstrate the ability to plan and prepare a variety of garnishes suitable for plated dishes and buffet style service.

CUL ART 093v Work Experience: Culinary Arts

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

DANCE 002 Selected Topics: Dance

Students will work on selected topics and specific terminology. Critically analyze various works in progress.

Students will demonstrate, research and/or perform specific selected dance works.

DANCE 002C Selected Topics: Social Dance

Students will work on social dance techniques, learn social dance terminology and critically analyze various works in progress.

DANCE 003 Choreography

Students will apply basic concepts by creating and performing a choreography as an art form that provides cultural understanding.

Students will demonstrate a command for terminology applied to choreography.

Students will recognize and define basic concepts of choreography.

DANCE 004 Choreography

Students will create and perform a choreography as an art form that provides cultural understanding.

Students will demonstrate intellectual and reflective skills while evaluating their or others' dance work on written paper or oral tests.

Students will solve choreographic problems while creating short movement studies.

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Course Learning Outcomes Report

DANCE 005 Dance Production: Repertory Company

Students will demonstrate and perform various dance styles in production
Students will demonstrate knowledge of dance production terminology
Students will work on introductory production techniques including lighting, costuming, back stage managing and marketing.

DANCE 006 Ballet

To recognize define learned dance concepts. To interpret the meaning and knowledge of dance fundamentals. To demonstrate and perform specific dance assignments. The ability to apply learned basic concepts of ballet. The ability to analyze dance materials and organize compositions.

DANCE 006A Ballet I

Students will demonstrate a command for basic ballet vocabulary on a written and physical test.
Students will demonstrate an understanding and appreciation of ballet history on a research paper.
Students will identify and demonstrate movement elements and skills in performing ballet dance.

DANCE 006B Ballet II

Students will demonstrate an understanding and appreciation of ballet history on a research paper.
Students will demonstrate a command for beginning ballet vocabulary on a written and physical test.
Students will identify and demonstrate movement elements and skills in performing ballet dance.

DANCE 007 Ballet

Students will work on intermediate ballet techniques and learn ballet terminology and work on the development of various ballet styles.

DANCE 007A Ballet III

Students will deepen their understanding and appreciation of Ballet through the eyes of famous dancers and choreographers on a research paper.
Students will identify and demonstrate intermediate movement elements and skills in performing Ballet.
Students will demonstrate a command of intermediate ballet terminology on a written and physical test.

DANCE 007B Ballet IV

Students will demonstrate a command of advanced ballet terminology on a written and physical test.
Students will deepen their understanding and appreciation of Ballet through the eyes of famous dancers and choreographers on a research paper.
Students will identify and demonstrate advanced movement elements and skills in performing various styles of Ballet.

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Course Learning Outcomes Report

DANCE 010 Modern Dance

Students will work on basic techniques on modern dance, learn basic dance terminology and work on development of various modern dance styles.

DANCE 010A Modern Dance I

Students will demonstrate a command for basic Modern dance vocabulary on a written and physical test
students will demonstrate and perform basic different Modern dance movements.
Students will demonstrate an understanding for the historical, cultural and social context of Modern dance in America.

DANCE 010B Modern Dance II

students will demonstrate and perform basic different Modern dance movements.
Students will demonstrate an understanding for the historical, cultural and social context of Modern dance in America.
Students will demonstrate a command for basic Modern dance vocabulary on a written and physical test

DANCE 011 Modern Dance

Students will work on intermediate dance techniques on modern dance and will continue to critically analyze various dance works in progress. Students will also work on intermediate dance compositions.

DANCE 011A Modern Dance III

Student will demonstrate and perform intermediate skills, techniques and modern dance combinations.
The student will demonstrate knowledge of the choreographers, styles, historical, and multicultural context of Modern dance on a research paper.
Students will demonstrate a command for intermediate modern vocabulary on a written and physical test.

DANCE 011B Modern Dance IV

Students will demonstrate a command for advanced modern vocabulary on a written and physical test.
The student will demonstrate knowledge and evaluate works, styles, historical, and multicultural contexts of Modern dance on a research paper.
Student will demonstrate and perform advanced skills, techniques in Modern dance compositions.

DANCE 012 Jazz Dance

Students will work on basic dance techniques. Critically analyze various dance works in progress. Students will also work on basic jazz compositions.

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**DANCE 012A Jazz Dance I**
- Students will demonstrate different basic Jazz movements involving various Jazz rhythms in performing combinations.
- Students will demonstrate an understanding and appreciation for Jazz history on a research paper.
- Students will demonstrate a command for basic Jazz vocabulary on a written and physical test.

**DANCE 012B Jazz Dance II**
- Students will demonstrate an understanding and appreciation for Jazz history on a research paper.
- Students will demonstrate a command for basic ballet vocabulary on a written and physical test.
- Students will demonstrate different basic Jazz movements involving jazz rhythms in a combination.

**DANCE 013 Jazz Dance**
- Students will work on intermediate techniques on jazz, learn jazz dance terminology and critically analyze various works in progress as well as dance compositions.

**DANCE 013A Jazz Dance III**
- Students will deepen their understanding and appreciation of Jazz dance through the eyes of famous dancers and choreographers on a research paper.
- Students will acquire a knowledge of intermediate Jazz dance vocabulary on a written and physical test.
- Students will identify and demonstrate intermediate movement elements and skills in performing Jazz.

**DANCE 013B Jazz Dance IV**
- Students will acquire a knowledge of advanced Jazz dance vocabulary on a written and physical test. Students will achieve at least a 70% on Physical rubric and vocabulary test.
- Students will acquire a strong knowledge of advanced Jazz dance vocabulary on a written and physical test. Students will achieve at least a 70% on Physical rubric and vocabulary test.

I. Course Outcome: In a short research paper, the student will demonstrate an understanding and appreciation for a Jazz choreography for a historical and cultural standpoint. Students will achieve a 70% on a research paper using the assessment rubric.
- Students will identify and demonstrate advanced movement elements and skills in performing various forms of Jazz.
- Students will deepen their understanding and appreciation of Jazz dance through the eyes of famous dancers and choreographers on a research paper.

**DANCE 020 Theatre Dance and Movement**
- Students will develop technical dance skills for performances in musicals.
- Students will demonstrate awareness of dance as a performing art form in a musical setting on a research paper.
- Students will demonstrate knowledge of dance vocabulary on a written and/or physical test.
Course Learning Outcomes Report

DANCE 030 Introduction to Dance

Student will demonstrate awareness of his/her own muscular movements by physically demonstrating concepts of developing strength, coordination, balance, posture, and alignment in performance at the basic level per the department developed rubric.

The student will perform basic skills and fundamentals for different styles of dance such as: jazz, ballet, modern per the department developed rubric.

DANCE 032 Modern Dance

Student will demonstrate a knowledge of famous dance choreographers

learn basic modern dance terminology

Students will acquire knowledge of modern dance basics techniques.

DANCE 035A Introduction to Afro-Caribbean dance

Students will be able to understand and appreciate the value of live music (live drummers) in relation to Dunham technique and other form of Caribbean dances.

Students will gain an appreciation of the Dunham dance technique and of its creator Ms Katherine Dunham

exemplify cultural awareness and think critically of West Africa and the Caribbean strong relationship with regards to religion, music, vernacular and social dances.

Students will demonstrate basic knowledge of Dunham dance techniques and variations in Caribbean dance styles.

DANCE 036 Hip Hop

Students will be able to develop dance vocabulary and recognize and demonstrate different basic Hip Hop movements involving syncopated rhythms. Students will achieve at least a 70% on Physical demonstration rubric and vocabulary test.

In a short research paper, the student will demonstrate an understanding and appreciation for the vocabulary, the styles and the historical context and the multicultural form of expression in Hip Hop dance. Students will achieve at least a 70% on a research paper using the assessment rubric.

DANCE 050H Special Studies: Dance

Students will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

DANCE 080 Deactivation — Selected Topics: Dance

The student will evaluate the recent developments in Dance on a research paper.

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**DIESL 041 Heavy Duty Brakes**
- Demonstrate the proper air brake circuit troubleshooting procedures used on a class 8 on-highway truck.
- Demonstrate the proper repair of a foundation brake from a class 8 on-highway truck.
- Demonstrate the proper repair of an air compressor used on a class 8 on-highway truck.
- Demonstrate the proper repair of brake valve components on a class 8 on-highway truck.

**DIESL 042 Heavy Duty Power Trains**
- Demonstrate the proper procedure to troubleshoot a transmission and clutch used in a class 8 on-highway truck.
- Demonstrate the proper repair of a clutch from a class 8 on-highway truck.
- Demonstrate the proper repair of a transmission on a class 8 on-highway truck.

**DIESL 043 Heavy Duty Truck Components**
- Demonstrate how to align a class 8 on-highway truck using a four wheel alignment machine.
- Demonstrate the proper repair of a differential from a class 8 on-highway truck.
- Demonstrate the proper repair of suspension components on a class 8 on-highway truck.

**DIESL 044 Diesel Engine Principles**
- Demonstrate the proper repair of diesel engine components used in on-highway trucks and heavy equipment.
- Demonstrate the proper procedures to time diesel engines using specialized equipment.
- Demonstrate the proper repair of diesel engine lubrication, cooling, and air induction systems used in on-highway trucks and heavy equipment.

**DIESL 045 Diesel Engine Repair**
- Demonstrate the proper repair of diesel engine components used in on-highway trucks and heavy equipment.
- Demonstrate the proper procedures to disassemble and assemble diesel engines using specialized equipment.
- Demonstrate the proper repair of engine compression brakes, exhaust brakes, and hydraulic retarders, used in on-highway trucks and heavy equipment.

**DIESL 046 Diesel Engine Fuel and Tune-Up**
- Demonstrate the proper procedures to tune-up various diesel engines.
- Demonstrate the proper way to adjust valves and injectors on various diesel engines.
- Demonstrate the proper adjustment of diesel engine fuel systems.
Course Learning Outcomes Report

DIESL 047 Diesel Air Conditioning

Demonstrate the proper hook-up and usage of an R-134a recovery and evacuation station.
Demonstrate the proper hook-up and usage of an R-134a charging station.
Demonstrate the proper hook-up of an R-134a air conditioning manifold gauge set.

DIESL 048 Allison Transmission Service

Demonstrate and repair Allison WT Transmission components.
Demonstrate and repair Allison WT Transmission components.
Demonstrate and repair Allison torque convertors used in their WT Transmissions.
Demonstrate and repair Allison WT Transmission electronic control systems.

DIESL 049 Computer Diagnosis and Troubleshooting

Demonstrate the proper repair procedure of various electronic diesel fuel injection systems.
Demonstrate the proper use of diesel technical manuals and written instruction booklets.
Demonstrate the proper procedures to diagnose and troubleshoot electronic systems using scanners, computers, and specialized equipment.
Demonstrate the proper care and usage of hand tools and special equipment.

DIESL 069V Internship: Diesel Mechanics

Apply discipline related skills and competencies in the internship.
Prepare monthly reports on accomplishments as they relate to the student's written objectives and future training needs.
Analyze the educational preparation and technical skills as compared to the expected performance required by the internship.
Define and apply the SCANS competencies in the internship.

DIESL 075 Selected Topics: Diesel Technology

Will vary with specific topic(s).

DIESL 087A Diesel Specialization

Demonstrated advanced knowledge and skills in a specialized area of diesel mechanics.
Presented an oral report on a specialized area of diesel mechanics.
Composed and turned in a comprehensive written report on a specialized area of diesel mechanics.

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DIESL 087B Diesel Specialization

Demonstrated advanced knowledge and skills in a specialized area of diesel mechanics.
Composed and turned in a comprehensive written report on a specialized area of diesel mechanics.
Presented an oral report on a specialized area of diesel mechanics.

DIESL 098V Work Experience: Diesel Mechanics

Apply discipline related skills and competencies in the internship.
Define and apply the SCANS competencies in the internship.
Prepare monthly reports on accomplishments as they relate to the student's written objectives and future training needs.
Analyze the educational preparation and technical skills as compared to the expected performance required by the internship.

DRAMA 001A Actor's Studio I

Students will demonstrate the ability to identify appropriate audition technique skills through series of exercises and presentations.
Students will have the knowledge to identify appropriate techniques for ensemble acting, including: connection, dynamics, truthful behavior, improvisation, voice, and movement. This will be demonstrated through a series of exercises and presentations.
Students will demonstrate the ability to identify appropriate techniques for partner scene study through the use of a presentation.

DRAMA 001B Actor's Studio II

Students identify appropriate techniques for ensemble acting, including: connection, dynamics, truthful behavior, improvisation, voice, and movement in a simulated presentation.
Students identify appropriate audition technique skills in a simulated audition.
Students identify and apply appropriate techniques for advanced project work in acting presentation.
Students identify appropriate techniques for partner scene study in an acting presentation.

DRAMA 005 Selected Topics: Drama

The student will successfully demonstrate the required skills to meet the variable outcomes developed for this course.

DRAMA 006A Improvisational Theatre I

Students identify and apply appropriate techniques for performance oriented long-form improvisation in presentations.
Students identify and apply appropriate techniques for ensemble acting, including: connection, dynamics, and improvisation in classroom presentations.
Course Learning Outcomes Report

DRAMA 006B Improvisational Theatre II

Students identify and apply appropriate techniques for performance oriented long-form improvisation in a presentation.

Students identify and apply appropriate techniques for ensemble acting, including: connection, dynamics, and improvisation in class exercises.

DRAMA 007 Introduction to Theatre

The student will identify all members of a theatre production company and their duties.

The student will identify the major unions which oversee the professional theatres and summarize the rules each union requires of their members.

The student will demonstrate their competency in calculating a budget for a production.

The student will recognize the principal architectural parts that make up a theatre and identify the safety laws that govern the use of the building for performance.

The student will recognize the proper protocol and terminology when working with professional theatre companies.

DRAMA 010 Theatre Appreciation

70% of students will demonstrate the ability to analyze play scripts and performances based on historical trends and common practices in theatre.

70% of students will demonstrate the ability to compare production elements of multiple theatrical performances.

70% of students will demonstrate the ability to identify major trends and common practices in theatre performance.

DRAMA 015 Make-Up for The Theatre

The student will demonstrate an understanding of makeup as it applies to actors by applying makeup onto their faces in order to change into a non-realistic character. The student will show the knowledge of how to paint his/her face in order to change age or other character traits.

DRAMA 016A History of Theatre: Primitive to the 18th Century

Students will demonstrate the ability to compare and contrast major movements in theatre history from primitive times to 1800 through written and oral presentations.

Students will demonstrate knowledge of historical trends in theatre literature and production from primitive times to 1800 through written examination.

DRAMA 016B History of Theatre: 18th Century to Present

Students will demonstrate the ability to compare and contrast major movements in theatre history from 1800 to the present through written and oral presentations.

Students will demonstrate knowledge of historical trends in theatre literature and production from 1800 to the present through written examination.

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DRAMA 019A Technical Theatre I

90% of students will demonstrate the ability to operate common stagecraft tools and equipment in a safe and efficient manner. Students will be evaluated based on the tools safety checklist.

75% of students will demonstrate the ability to solve stagecraft problems using industry standard techniques. Students will earn at least 70% on stagecraft problems worksheets.

75% of students will demonstrate a working understanding of standard stagecraft terminology and procedures in the areas of scenery, costumes, lighting and sound. Students will earn at least 70% on topic quizzes.

75% of students will demonstrate the ability to work as a team to produce stagecraft elements for live performance in the areas of scenery, costumes, lighting, and sound. Students will earn at least 70% on the lab participation rubric.

DRAMA 019B Technical Theatre II

75% of the students will demonstrate their ability to translate design documentation in the areas of costume, lighting, scenery, and sound design into "performance ready" production elements. Students will be assessed based on their individual/team participation, completing the required production element(s), advancement of skill level, following instructions and meeting production deadlines. Students will earn at least 75% on the rubric.

75% of the students will demonstrate their ability to analyze a script for the areas of costume, lighting, scenery, and sound design by writing a "designers script analysis". Students will score at least 80% on the rubric.

75% of the students will demonstrate their ability to communicate design ideas in the areas of costume, lighting, scenery, and sound design through presentations of visual research, drawing and three-dimensional model building. Students will score at least 70% on each project rubric.

DRAMA 022 Stage Lighting

Students will demonstrate the ability to read, analyze, and interpret lighting design paperwork in preparation of a master electricians paperwork packet through written and practical projects.

Students will demonstrate the ability to properly prepare, install, program, and operate theatrical lighting equipment through a practical demonstration of skills.

DRAMA 023 Stage Costume

Students will demonstrate the ability to properly, layout, cut, and stitch stage costumes through practical demonstration of skills.

Students will demonstrate the ability to read, analyze, and interpret costume design paperwork in preparation for costume construction through written and practical projects.

DRAMA 025A Theatre Production: Acting

Students will demonstrate the ability to identify and apply appropriate techniques for the rehearsal and public performance of plays as demonstrated through performance for a live audience.
DRAMA 025B Theatre Production: Crew

Students will demonstrate the ability to perform stage crew duties in accordance with I.A.T.S.E. (International Alliance of Theatrical Stage Employees) standards in a presentation of a theatrical performance for a live audience.

Students will demonstrate the ability to work as a team in the presentation of a theatrical performance for a live audience.

DRAMA 026A Repertory Workshop: Acting

Students will develop the ability to identify and apply appropriate techniques for the rehearsal and performance of advanced project work in theatrical performance including, but not limited to student directed one-acts, improvisation, musical theatre, and reader's theatre as demonstrated through live performance.

DRAMA 026B Repertory Workshop: Crew

Students will demonstrate the ability to work as a team in the presentation of a theatrical performance for a live audience.

Students will demonstrate the ability to perform stage crew duties in accordance with I.A.T.S.E. (International Alliance of Theatrical Stage Employees) standards in a presentation of a theatrical performance for a live audience.

DRAMA 031 Principles of Acting

Students identify and apply appropriate techniques for ensemble acting, including: connection, dynamics, truthful behavior, improvisation, voice, and movement in classroom exercises.

Students identify and apply appropriate techniques for partner scene study in classroom exercises and presentations.

DRAMA 034 Styles of Acting

Students identify and apply appropriate techniques for styles of acting including: classical, modern, avant-garde, and/or experimental theatre in classroom exercises and presentations.

Students analyze appropriate historical context for styles of acting including: classical, modern, avant-garde, and/or experimental theatre in classroom exercises and presentation.

DRAMA 038 Acting for the Camera

Students will identify and apply appropriate techniques for on camera dramatic scene study and monologues in classroom exercises and presentations.

Students will identify and apply appropriate techniques for commercial acting and commercial auditions in classroom exercises and presentations.

Students will identify and apply appropriate techniques for camera acting and the mechanical media including camera orientation and on-set logistics and protocol.
Course Learning Outcomes Report

DRAMA 044A Traditional Theatre Production: Acting

Students will demonstrate the ability to identify and apply appropriate techniques for the rehearsal and performance of traditional theatre as demonstrated through presentation of a play for a live audience.

DRAMA 044B Traditional Theatre Production: Crew

Students will demonstrate the ability to perform stage crew duties in accordance with I.A.T.S.E. (International Alliance of Theatrical Stage Employees) standards in a presentation of a theatrical performance for a live audience.

Students will demonstrate the ability to work as a team in the presentation of a theatrical performance for a live audience through practical demonstration in performance.

DRAMA 047A Musical Theatre Production: Acting

Students will demonstrate the ability to identify and apply appropriate techniques for the rehearsal and public performance of musical theatre through the presentation of a musical for a live audience.

DRAMA 047B Musical Theatre Production: Crew

Students will demonstrate the ability to perform musical theater stage crew duties in accordance with I.A.T.S.E. (International Alliance of Theatrical Stage Employees) standards in the presentation of a musical theatre performance for a live audience.

Students will demonstrate the ability to work as a team in the presentation of a musical theatre performance for a live audience.

DRAMA 050A Special Studies: Drama

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

DRAMA 101 Creative Seniors: Drama

The senior student will demonstrate a working knowledge of theatre production by participating in the rehearsal and performance of a given theater work. Skills will be demonstrated though performance of skills for a live audience.

DV ED 120 Tutorial Assistance

The student will use a variety of content-specific learning strategies applicable to the course for which they are receiving tutoring in order to successfully complete assignments, quizzes, and tests.

The student will work on study skills to improve organization and time management in the course being tutored.

EM 011 Light Microscopy and Photography

Student will recognize the difference between bright field, dark field, phase contrast, polarized, reflected, and fluorescence images collected using a light microscope.

Student will be able to use ImageJ to manipulate images.

Student will be able to align a compound light microscope.
Course Learning Outcomes Report

E M 015 Selected Topics: Electron Microscopy
The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course. The student will learn new techniques in EM as well as reinforce those techniques already learned in previous courses. The student will assist the instructor and lab technician with various duties which will help direct the newer students with proper technique in various types of sample preparation.

E M 021 Introductory Techniques for Electron Microscopy
Students will produce and analyze photographs of supplied samples such as bacteria, latex spheres, and calibration standards which submitted as a report in a scientific format to the instructor. These will be evaluated based on industry standards. 70% of students will receive a score of 70% or higher on this report. The student will perform basic operational steps of the table top scanning electron microscope, photograph their own samples, and the results submitted in a scientific format. The student will perform alignment steps of the transmission electron microscope at an introductory level on the alignment rubric. 80% of students will successfully complete this outcome.

E M 022 Ultramicrotomy for Electron Microscopy
Students will be able to prepare biological tissue for ultramicrotomy. Students will be able to work together in groups to prepare a semester project. Students will be able to acquire images of biological tissues from both light and transmission electron microscopes. Students will be able to align and operate transmission electron microscopes. Students will be able to prepare thin sections for the transmission electron microscope. Students will be able to prepare thick sections for the light microscope. Students will be able to prepare glass knives for ultramicrotomy. Students will be able to mix chemical solutions by weight and volume. Students will be able to work safely in a laboratory environment.

E M 028 Biological Ultrastructure
List the organelles typically found in eukaryotic cells. Recognize cell structures in both light and electron micrographs. Interpret images as seen with the light and electron microscope. Recognize specific organelles in cells. Distinguish between prokaryotic and eukaryotic cells. Describe the process of preparing cells for microscopic examination.
Course Learning Outcomes Report

EM 030 Current Microscopies
Student will be able to distinguish images made by all the techniques covered in the class.
Students will be able to draw schematic diagrams of at least 10 different microscope systems.
Students will be able to explain the theory and application of at least one microscopy technique in an oral presentation.
Student will be able to explain the concept of resolution with the appropriate mathematical formulas.

EM 034 Introduction to Materials Electron Microscopy
The student will demonstrate the proper procedure for cutting, mounting, polishing and etching of samples for the optical and electron microscope
The student will recognize structure from prepared samples.

EM 035 Physical Electron Microscopy Laboratory
Prepare an IC TEM transparent sample.
Students will learn to prepare a sample using the dimpler and tripod polisher

EM 037 Advanced Techniques in Biological Electron Microscopy
Students will be able to describe at least three techniques of cryo electron microscopy
Students will be able to present the results of their project to the class
Students will be able to describe the mechanism of immunocytochemistry
Students will be able to use and care for a diamond knife
Students will be able to routinely operate an ultramicrotome to produce both thick and thin sections
Students will be able to work in a group to execute an advanced research project
Students will be able to list at least three common fixatives and explain their use and mechanism of action

EM 038 Scanning Electron Microscopy
Adjust the microscope correctly for high resolution
Adjust the aperture and produce changes in depth of field

EM 039 Biological Scanning Electron Microscopy
Students will prepare scanning electron micrographs of biological material.
Students will be able to operate a scanning electron microscope.
Students will be able to operate a sputter coater.
Students will be able to present the results of their research both in written and oral reports.
Students will be able to prepare fixatives for scanning electron microscope samples
Students will keep a laboratory notebook.

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**E M 041 Analytical Scanning Electron Microscopy**

Acquire an EDS spectrum of an unknown sample.
Students will prepare integrated circuits to be viewed in cross-section.

**E M 050H Special Studies: Electron Microscopy**

Student will enhance their skills in microscopy including those problems which arise from everyday use of the electron microscope.

**E M 053 Electron Microscopy Equipment Maintenance**

The student will be able to change a filament on the electron microscope.
The student will be able to understand vacuum systems.

**E M 058 Digital Imaging for Microscopy**

Students will be able to prepare figures to submit with a scientific paper for publication
Students will be able to define the differences between raster and vector based imaging applications
Students will be able to use PowerPoint to create scientific presentations
Students will be able to use ImageJ to quantify areas, lengths, and angles in digital images
Students will be able to use ImageJ to annotate digital images with text and scale bars
Students will be able to use use Digital Micrograph to capture digital images using Gatan cameras
Students will be able to describe the operation of a CCD imaging device
Students will be able to describe how at least 3 displays used for digital imaging work.
Students will be able to use Image to modify digital images
Students will be able to describe how at least 3 kinds of digital printers work

**E M 059 Advanced Projects in Electron Microscopy**

Identify defects in the TEM
Students will determine a laboratory research project that will utilize a major portion of the equipment available in the lab.

**E M 062 Focused Ion Beam (FIB) Operation and Atomic Force Microscopy (AFM)**

Evaluate and identify procedure for sample preparation into FIB.
Students will evaluate AFM samples and obtain images

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**E M 079 Applied Microscopy Principles**

The student will learn new techniques in EM as well as reinforce those techniques already learned in previous courses. The student will assist the instructor and lab technician with various duties which will help direct the newer students with proper technique in various types of sample preparation.

**E TECH 011 Engineering Drafting**

Students will prepare industry-standard detail and assembly drawings in laboratory and classroom assignments.

Students will demonstrate a knowledge of standard threaded and unthreaded fasteners, material joining techniques, and part tolerancing and surface quality requirements on classroom quizzes and exams.

**E TECH 012 Computer-Aided Drafting**

Students will prepare and print accurate engineering drawings using 2-D AutoCAD models in classroom and laboratory assignments.

Students will demonstrate of knowledge of proper use and setup of AutoCAD model and layout spaces, AutoCAD commands and printing techniques in classroom quizzes and exams.

**E TECH 013 Engineering Drafting Skills**

The student will prepare accurately scaled orthographic and isometric drawings of a variety of engineering components in laboratory assignments.

The student will demonstrate a knowledge of engineering drawing practice and terminology in classroom quizzes and examinations.

**E TECH 015 Selected Topics in Engineering Technology**

Will vary by topic.

**E TECH 020 Materials and Measurements**

Students will demonstrate a knowledge of the properties and uses of standard engineering materials in quizzes and examinations.

Students will perform, analyze and report on standard tests of engineering materials in laboratory assignments.

**E TECH 022 Three Dimensional Modeling**

Students will demonstrate knowledge of terminology, proper setup and use of 3-D modelling software in classroom quizzes and examinations.

Students will use 3-D modelling software to create accurate models and drawings of engineering parts, assemblies and structures in classroom and lab assignments.

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E TECH 026 Technical Statics

Students will calculate equations for determining the centroid and moment of inertia for two-dimensional and three-dimensional objects.

Students will solve equations arising in the analysis of forces acting on rigid bodies.

E TECH 031 Fundamentals of Civil Drafting

The student will demonstrate the application of engineering drafting standards for a variety of projects dealing primarily with structural elements using orthographic projection and visualization in drafting laboratory assignments.

The student will be able to calculate the size of simply supported beams, and the required connection sizes and type on homework assignments, quizzes and exams.

E TECH 034 Machine Drafting

Students will calculate tolerance stack ups, paper gauging, virtual conditions and proper tolerance zone sizes in quizzes and examinations.

Students will prepare engineering drawings to industry standard (including geometric dimensioning and tolerancing) in laboratory assignments.

E TECH 035 Machine Design

Students will be able to design solutions for common engineering problems and use analytical methods to size components to suit required loads.

Students will calculate necessary sizes of components of mechanical systems in homework and laboratory assignments.

E TECH 041 Civil Drafting: Site Design and Improvement

Student will design drainage ponds for storm drainage in laboratory assignments.

The student will prepare a set of drawings (according to California state standards) for site plans, subdivision plans, mapping and related details in laboratory assignments.

Students will solve equations required to determine storm drainage and runoff on homework assignments, quizzes and exams.

E TECH 045 Practical Machine Design

Students will design and construct prototypes to solve common engineering problems in laboratory assignments and design projects.

E TECH 046 Mechanical and Electrical Systems

Students will prepare industry standard drawings of building mechanical, electrical and plumbing systems in laboratory assignments.

Students will demonstrate a basic knowledge of the operation and correct sizing of the components of mechanical, electrical and plumbing systems for buildings on homework, quizzes, and exams.

Students will demonstrate a basic knowledge of the public mechanical, electrical and plumbing codes for building system design on homework, quizzes and examinations.

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E TECH 047 Introduction to Industrial Control Systems

Students will demonstrate a knowledge of the principles and operation of industrial automation devices and circuits on homeworks, quizzes and examinations.

Student will build, program, and operate electrical control systems using industrial input and output devices and PLCs in laboratory assignments.

E TECH 070 Applied Design and Fabrication Project

The student will be able to design and build a mount for an rack and pinion steering box. The design will include the proper angle of the steering box, and the proper location of the mounting bolts.

E TECH 075 Selected Topics in Engineering Technology

Vary by topic.

E TECH 075B Global Positioning System (GPS) Surveying Applications

Perform a Survey Using GPS Technology
Choose an Appropriate System of Units for a Given Survey
Setup a GPS System for Obtaining Satellite Signals

E TECH 076 Applied Statics

Students will calculate equations for determining the centroid and moment of inertia for two-dimensional objects in home work assignments, quizzes and exams.
Students will solve equations arising in the analysis of forces action on rigid bodies in home work assignments, quizzes and exams.

E TECH 078 Applied Statics and Strength of Materials

Students will determine reaction forces, stresses and deflections in determinate and indeterminate mechanical and civil structures on homeworks, quizzes and examinations.
Students will accurately calculate and measure strength and deflection of machine and structural components in laboratory exercises.
Students will design machine and structural components to satisfy strength and deflection criteria in laboratory assignments.

E TECH 080 Applied Surveying

Students will solve problems related to length, leveling, angles, traverse adjustments, areas, volumes, and curves on homework assignments, quizzes and exams.
Students will demonstrate the ability to use surveying equipment required to measure lengths, elevations, and angles in laboratory exercises.
Course Learning Outcomes Report

E TECH 081 GPS Surveying Applications

Calculate Elevations
Acquire Appropriate GPS Data for the Survey in Process
Produce Written Reports to communicate Results of Field Surveys
Perform Error Analysis of the Acquired GPS and Other Measured Data
Calculate the Angular Distances Between Survey Points
Calculate the Linear Horizontal Distances and Set the Survey Points
Post-process the GPS Data
Generate Field Notes Appropriate to GPS Surveying
Setup a GPS System for Obtaining Satellite Signals
Choose an Appropriate System of Units for a Given Survey
Perform a Survey Using GPS Technology

ECON 001A Principles of Macroeconomics

Students will be able to assess the strengths and weaknesses of capitalism, socialism, feudalism, mercantilism, colonialism, market socialism, or any other broader or narrower theories the instructor would like to discuss.
Students will be informed consumers of economic information as it relates to current and historic events.
Students will fully understand the macroeconomic models discussed in the course.
Students will know how to use economic data sets/formulas in order to interpret and analyze data.

ECON 001B Principles of Microeconomics

Students will be able to assess the strengths and weaknesses of capitalism, socialism, feudalism, mercantilism, colonialism, market socialism, or any other broader or narrower theories the instructor would like to discuss.
Students will know how to use economic data sets/formulas in order to interpret and analyze data.
Students will fully understand the microeconomic models discussed in the course.
Students will be informed consumers of economic information as it relates to current and historic events.

ECON 015 Selected Topics In Economics

Will vary by topic course developed.
Will vary by topic course developed.

ECON 050H Special Studies: Economics

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student’s abilities and knowledge.
EDUC 010 Introduction to Education

Students will demonstrate sensitivity to relationships among teacher, parents, students, and colleagues of diverse and varying ages and backgrounds by participating in the Ruby Payne Framework For Understanding Poverty workshop and the Orton Dyslexia Society Learning Disabilities Simulation.

Students will define student learning using current teaching methodologies, theories, and practices on weekly exams.

Students will distinguish and summarize best practices in teaching within the K-12 learning environments by completing three portfolio lesson plans demonstrating best practices.

Students will develop a professional teaching portfolio to include papers on classroom management, classroom environment, and classroom procedures based on observations completed in local elementary classrooms.

EDUC 010L Seminar and Tutoring in Education

Students will observe and participate in classroom activities. They will tutor one-on-one and small group guided by the classroom teacher.

Students will observe the classroom management style in a K-8 school and tutor small groups in the classrooms based on the grade level content standards. They will be directed and guided by the K-8 classroom teacher.

EDUC 011 Methods of Classroom Management

Students will create a classroom arrangement plan that will demonstrate a classroom setting.

Students will develop a student questionnaire to provide information for the instructor to familiarize her or himself with the student personal and academic needs.

EDUC 012 Seminar in Communications and Beginning Tutoring Techniques

The student will be able to distinguish the phonetic sounds of the alphabet.

Students will take a learning styles inventory to access his or hers own learning style, then apply teaching techniques used for different learning styles.

The student will complete a learning styles inventory on a tutee.

ELEC 015 Selected Topics: ELECTRICAL TECHNOLOGY

Will vary by topic course developed.

Will vary by topic course developed.

ELEC 015B Electrical Certification Preparation I

Students will be able to design and calculate parallel circuit solving for basic OHM's law.
ELEC 015C Selected Topics: Electrical Certification Preparation II

Students will be able to calculate voltage drops in an electrical circuit.

ELEC 015G Photovoltaic Systems

Given a real life situation a successful student will be able to determine the correct PV system to install
Given a real life situation a successful student will be able to troubleshoot a PV system
Given a real life situation a successful student will be able to install the correct PV system

ELEC 015K Fundamentals of Photovoltaic Systems

Students will demonstrate knowledge of power and energy consumption of common electrical appliances in the home and business on a multiple choice test.
Students will demonstrate their knowledge and skills of computing simple series and parallel electrical circuits and analyze average solar irradiation on various surfaces on lab simulation.

ELEC 015L Advanced Photovoltaic Systems

To conceptualize the overall PV system construction process form design to final commissioning at 100% accuracy to industry standards using a checklist, 80% of students will complete this outcome.
On a lab activity the student display knowledge of commercial wiring systems, components, and connections at 100% accuracy to industry standards on a checklist, 80% of students will achieve this outcome.
Student will demonstrate advanced knowledge of electrical systems and integration with PV systems using solar trainer at 100% accuracy. 80% of students will complete this outcome.

ELEC 030 Fundamentals of Electricity

Upon successful completion the student will be able to demonstrate an understanding of and technical skill in (AC) Alternative Current. The student will apply the correct mathematic formula to solve for different values such as frequency, voltage, Peak, RMS, and similar values.
Upon successful completion the student will be able to demonstrate an understanding of and technical skill in (DC) Direct Current.
Upon successful completion the student will be able to demonstrate an understanding of and technical skill in electrical circuit safety.

ELEC 031 Electrical Wiring Methods

Upon successful completion of this course, the student will be able to use the NEC code book to solve wiring methods.
ELEC 032 Electrical Motors

Student will be able to identify the start circuit of a split phase induction motor.

ELEC 033 Industrial Wiring Methods

Student will hook up single phase transformer in additive condition.
student will build a raceway according to the NEC code book.

ELEC 034 Motor Controls

Outcome: A student will be able to identify the various types of logic associated with motor controls.

ELEC 037 Programmable Controllers

Upon successful completion the student will be able to demonstrate an understanding and technical skill in application and installation of trouble shooting techniques and circuit analysis of programmable logic controllers (PLC).
Upon successful completion the student will be able to demonstrate an understanding and technical skill in application and installation of Programmable Logic Controllers (PLC).

ELEC 038 Construction Safety - OSHA

Students will be able to correctly identify correct OSHA Standards in 29 Code of Federal Regulations (CFR) 1926.
Upon successful completion of Electrical 38, the student will have a deeper understanding of his or her environment and communicate effectively of any present or future dangers.

ELEC 039 Electrical Certification Preparation I

upon successful completion of this course the student will be able to understand the National Electric Codes and apply the code to real like situations.
This course will address the areas I,II,III,IV, and V of the Institutional Learning Outcomes.

ELEC 041 Fire Alarms

Upon successful completion, the student will be able to install a fire alarm system given a real life situation

ELEC 042 Security Alarms

Upon successful completion, the student will be able to troubleshoot a security alarms system when given a real life situation.
Upon successful completion, the student will be able to install a security alarms system when given a real life situation.
Course Learning Outcomes Report

ELEC 043 Fiber Optic Systems

Students will test and troubleshoot a fiber optic system utilizing the installation and troubleshooting guidelines from the textbook.

ELEC 075 Selected Topics: Electrical Technology

Will vary by topic course developed.

ELEC 087A Electrical Specialization

Outcome: Student will gain a greater knowledge of a specialized area of the electrical trade.

ELEC 087B Electrical Specialization

Student will gain a greater knowledge of a specialized area of the electrical trade.

ELECT 011 AC and DC Network Analysis

Students will demonstrate knowledge and skills of calculating current flow and expected voltage drops for electronics components at 100% accuracy using Ohm's Law on multiple choice exam questions.

Students will demonstrate their knowledge and skills of safely using industry test equipment. Fluke, Beckman, Techtonics and basic hand tools at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

Students will demonstrate knowledge and skills of safely using industry test equipment; Fluke, Beckman, Techtonics and basic hand tools at 100% accuracy to industry standards in a lab activity or multiple choice test.

Students will demonstrate knowledge and skills needed to calculate and measure voltage drops on a live circuit in a lab activity at 100% accuracy to an industry standards checklist.

ELECT 012 Solid State Devices

Students will demonstrate their knowledge and skills of solid state power supply construction to meet the voltage and current requirements at 100% accuracy to industry standards. 80% of students will complete this outcome.

Students will demonstrate their knowledge and skills of the proper use of test equipment to isolate malfunctions within a solid state system at 100% accuracy. 80% of students will complete this outcome.

Students will demonstrate their knowledge and skills of Solid State circuits and design using National Instruments software at 100% accuracy using a checklist, 80% of students will compete this outcome.

demonstrate the application of solid state circuits.

ELECT 013A Digital Integrated Circuits

demonstrate knowledge of binary numbering system.
construct a data processing device to receive, process, memorize, manipulate, and pass through data.
design a clock circuit to control a synchronous digital counting circuit.
diagnose intended outcome of a logical circuit.
ELECT 014A Electronic Troubleshooting

- disassemble electronic equipment to facilitate troubleshooting.
- identify hand tools and demonstrate their proper use.
- locate sources for procurement of replacement parts.
- Identify and operate proper test equipment.

ELECT 014B Advanced Electronics Troubleshooting

- identify the major components of electronic equipment.
- recognize the proper readings of test equipment.
- Employ critical thinking to arrive at probable causes of errors within the circuit.

ELECT 014C Troubleshooting Computers

Students will demonstrate their knowledge and skills of computer troubleshooting theory and techniques at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

Students will demonstrate the skills and knowledge of effectively researching manufacture technical web sites and using the internet to research computer problems and fixes on a lab activity at 100% accuracy using a checklist. 80% of students will complete this outcome.

Students will demonstrate their understanding of effectively using electronic test equipment and diagnostic tools on computer systems at 100% accuracy using an industry checklist. 80% of students will complete this outcome.

ELECT 015 Selected Topics: Electronics Technology

- Will vary by topic course developed.
- Student will demonstrate their skills and knowledge setting up a Linksys wireless router at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.
- On a lab activity the student will configure Home automated systems using Windows PC and Home automation software and a Marcraft system lab at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

ELECT 015S Wireless Network Systems

- At the end of this course the students will understand the key characteristics Wireless technologies.
- At the end of this course the students will be able to design and implement Wireless LANs based on IEEE 802.11 wireless standards.
- At the end of this course the students will be able to utilize and configure various Wireless network devices and implement appropriate security features.
**Course Learning Outcomes Report**

**ELECT 016 Introduction to Microprocessors**

- adapt interfacing hardware to accept the microprocessor communications.
- create machine level programming to control a microprocessor in an industrial application.
- apply a microprocessor to an industrial task.

**ELECT 017 Robotics / Automation Introduction**

- 4. Develop the skills needed to work in groups and stay on task to the completion of the task.
- 1. Utilize standard robotics components to complete a given task.
- 3. Demonstrate the ability to determine the application feasibility of components through the listed data sheets on line.
- 2. Demonstrate the ability to locate and evaluate components over the Internet.

**ELECT 018 Robotics / Automation Systems**

- Demonstrate the ability to determine the application feasibility of components through the listed data sheets on line.
- Develop the skills needed to work in groups and stay on task to the completion of the task.
- Utilize standard robotics components to complete a given task.
- Demonstrate the ability to locate components over the Internet.

**ELECT 030A Basic Electronic Computer Networks**

Students will demonstrate their knowledge and skills of basic cabling and network design to connect devices such as desktops, laptops to a network at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

Students will be able to design, calculate, and apply subnet masks and Internet protocol addresses to fulfill a given requirement in data networks using Cisco 1841 routers, and Desktop computers or laptops at 100% accuracy to industry standard using a checklist. 80% of students will complete this outcome.

Students will demonstrate their knowledge and skills of the process of communications of data networks and the Internet using the Open System Internetworking Model (OSI) at 100% accuracy. 80% of students will complete this outcome.

**ELECT 030B Advanced Electronic Computer Networks**

Students will demonstrate the ability to configure and troubleshoot Cisco 1841 routers implementing routing configurations at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

Students will demonstrate their knowledge and skills of configuring and troubleshooting Cisco Routers at 100% accuracy to industry standards on a checklist, 80% of the students will achieve this outcome.

On a lab activity the student will configure Cisco routers with Routing protocols such as OSPF (Open Shortest Path First), EIGRP (Enhanced Interior Gateway protocol), RIP (Routing Interconnecting protocol) at 100% accuracy to industry standards on a checklist. 80% of the students will achieve this outcome.

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**ELECT 030C Basic Electronic Network Systems**

Students will demonstrate their knowledge and skills of configuring and setting up Cisco Wireless routers with 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

Student will demonstrate their knowledge and understanding of basic and advanced switch configurations using Cisco Catalyst 2950 and 2960 switches at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

**ELECT 030D Advanced Electronic Network Systems**

On a lab activity the student will configure Cisco routers and switches with basic security configurations at 100% accuracy to industry standards on a checklist, 80% of the students will achieve this outcome.

Student will demonstrate knowledge of course content by completing a Case Study from a real industry scenario. Case study consists of building a medium size network using Cisco 1841 routers and Cisco Catalyst 2960 Switches. A Power point presentation will be performed by students to obtain passing grade of C or better on the presentation.

Students will demonstrate their knowledge and skills of configuring NAT (Network Area Translation), DHCP (Dynamic Host Configuration Protocols), PPP (Point to Point Protocols), and manage WAN networks (Wide Area Networks) using Cisco 1841 K-9 routers and Cisco Catalyst 2960 switches at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.

**ELECT 030E Network Hardware Application**

Student will demonstrate their ability to configure Cisco switches and routers to function in a local area network or in a wide area network environment. The student will use the executive and global commands to configure the equipment at 100% accuracy to industry standards on a checklist, 80% of the students will achieve this outcome.

On a lab activity student will demonstrate the wiring standards according to IEEE standards, and will be able to wire data and voice networks. Students will be able to connect network equipment using serial connections.

Students will demonstrate their knowledge and skills of layout and design of a peer-to-peer network using Cisco 1841 routers and Window 7 desktop computers at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcomes.

**ELECT 032C Multilayer Switching**

1. At the end of this course the students will understand the key characteristics of various switching technologies. 2. At the end of this course the students will understand the hierarchical model of network design. 3. At the end of this course the students will understand and configure Virtual Local Area Networks (VLANs). 4. At the end of this course the students will be able to configure redundant links and Hot Standby Router Protocol (HSRP). 5. At the end of this course the students will understand and configure routing between VLANs. 6. At the end of this course the students will understand and configure multilayer switching. 7. At the end of this course the students will be able to implement Quality of Service across the switched network. 8. At the end of this course the students will be able to utilize and configure various Network monitoring tools and implement basic security features.

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ELECT 032D Network Troubleshooting

At the end of this course the students will understand the different techniques and methodologies of troubleshooting.
At the end of this course the students will understand the key characteristics of documenting and baselining networks.
At the end of this course the students will be able to utilize various tools and debugging commands to solve internetworking problems.

ELECT 034 Network Systems Security

On a lab activity the student will configure Cisco routers and switches with advanced security configurations at 100% accuracy to industry standards on a checklist, 80% of the students will achieve this outcome.
Students will demonstrate their knowledge and skills of network vulnerabilities, threat, and attack prevention using Cisco 1841 k-9 routers and Cisco Catalyst 2960 switches at 100% accuracy to industry standards using a checklist. 80% of students will complete this outcome.
On a lab activity the student will configure a Cisco router and switch at 100% accuracy to industry standards on a checklist. 80% of students will achieve this outcome.

ELECT 050H Special Studies: Electronics Technology

The student will gain insight into specific fields of study to enable them to make intelligent decisions for the direction of their future.
The student will gain insight into specific fields of study to enable them to make intelligent decisions for the direction of their future.
The student will be allowed credit for individual study in a vast variety of fields.

ELECT 069V Internship: Electronics

The outcomes will vary due to the variety of employers taking part in the program.

ELECT 075 Selected Topics: Electronics Technology

Will vary by topic course developed.

ELECT 098V Work Experience: Electronics

The outcomes will vary due to the variety of employers taking part in the program.
The student will gain a first hand knowledge of required skills and an appreciation of the environment in which the tasks must be performed.

ENG 001A Reading and Composition

The student will demonstrate the ability to select and refine a topic for a college-level essay; organize the essay with a clear thesis; develop it with relevant specific examples, including those drawn from research; document resources appropriately; proofread to produce a final draft relatively free of errors of style and grammar;read and comprehend culturally diverse texts promoting awareness of self and society; find printed and online resources and evaluate their validity; and demonstrate understanding of such issues as organization, tone, logic, and credibility.
Course Learning Outcomes Report

ENG 001B Critical Writing and and Thinking Through Literature

Demonstrate how such elements as plot, characterization, setting, denotation, connotation, metaphor, simile, narration, voice, style, and symbolism contribute to the understanding of a common theme.

ENG 001D Advanced Composition and Critical Thinking

The student will be able to write a passing analytical essay of 1500 words, which will include: formulating a question of original, inventive inquiry; synthesizing original or secondary research based on three or more arguments of others; evaluating the validity of various sources; and showing the ability to analyze, criticize, and advocate for ideas as well as demonstrating mastery in extracting and integrating quotes, paraphrasing, and citing sources.

ENG 015 Selected Topics: English

Will vary by topic course developed.

ENG 027 Rapid Reading

Upon successful completion of the course the student will increase his reading rate, which includes both speed and comprehension, by 100%. Upon successful completion of the course, the student will increase his reading vocabulary by 50%.

ENG 030 The Film as Literature

Upon completion of this course, the student will demonstrate the ability to analyze a complex film by identifying and understanding its main features, including characters, themes, and visual techniques; to understand and evaluate critical interpretations of the film; and to write a clearly organized essay developed with relevant specific details reflecting this comprehension of both the film and critical interpretations of it.

ENG 032A Seminar in Communications: Tutor Center

Demonstrate the use of active listening, positive reinforcement and effective questioning skills in tutoring sessions.
Identify and use specific study techniques that promote active learning in tutoring sessions.

ENG 032B Seminar in Communications: Writing Lab

Document succinctly for the student writer on his or her lab writing folder what was accomplished in a particular tutoring session and what needs to be worked on next, in the context of the writing process.

ENG 032C Seminar in Communications: Reading-Beginning Tutor Techniques

Students will demonstrate their knowledge of, and ability to apply, reading strategies when they conduct a typical tutoring scenario.
Students will demonstrate active listening, positive reinforcement, and effective questioning skills when they conduct a tutoring session.
Course Learning Outcomes Report

ENG 033A Study Skills for Success in College

Students will independently use the SQ3R study method to read and take notes on a textbook chapter and then use test preparation strategies to learn the material.

ENG 034 The Rock Lyric as Literature: Practical Literary Criticism

Upon successful completion of this course, the student will be able to paraphrase the thematic content expressed by a particular lyric or genre of the student's own choosing in order to contrast and compare those values with the values of the student's own belief system.

ENG 035 Chicano Literature

Acquire internet and library research skills.
Chicano Literature students will demonstrate their analytical, writing, organizational, and citation skills when they write a research paper on a topic related to the course.
Acquire knowledge of Chicano Literature.
Understand performance poetry, myths, ballads/corridos, and plays.
Gain a historical perspective and comprehend the epic poem "I am Joaquin."
Analyze and interpret Chicano/Mexican literary themes.
Learn and gain an understanding of the Pre-Columbian/Chicano identity through the six literary stages.

ENG 036 Selected Topics: Literature

Will vary with specific topics(s).

ENG 036A Selected Topics: American Literature of the 1960s

Construct an original written analysis of a 1960's American novel.
Identify the major themes in American literature of the 1960s.

ENG 037 Women in Literature

Students will write an expository essay of approximately 1,000 words examining three or more works of short literature or one work of longer literature (such as a novel). Student will design his or her own original thesis and support that thesis by using primary sources (the literature itself), showing an ability to analyze, criticize, and advocate for ideas as well as demonstrating mastery in extracting quotes, paraphrasing, and citing sources.

ENG 038 Mythology

Upon completion of the course the student will illustrate the psychological significance of myths and will identify and classify historical and current myths.
Students will demonstrate knowledge and understanding of the major literary works, themes, and defining characteristics of the most important mythological systems across a variety of cultures, including their influence in our present time.
The student will identify aspects of his/her own culture that are influenced by myths from the past.

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ENG 039 Introduction to Folklore

Recognize the pervasiveness of folklore and explain its forms and functions in the student's own community as measured by a folklore collection assembled by the student.

Organize and analyze information in a chart presenting the function and origins of various forms of folklore.

Analyze, compare, and recognize patterns in folklore as measured by essays and brief research papers.

Explain in an oral presentation to the class the role, function, or context in American society of a particular folk custom, work of folk art, and so on in an oral presentation.

Comprehend assigned readings about the types, functions, cultural and historical contexts, and social development of folklore.

ENG 040A Current Literature: The Novel

Students will demonstrate the ability to construct an original written analysis of a contemporary novel in a documented, take-home essay, a midterm essay exam, or a final essay exam.

Students will demonstrate knowledge of the basic elements of fiction, as depicted in the contemporary novel, in a midterm essay exam or a final exam.

ENG 040B Current Literature: Short Story and Drama

Students will demonstrate knowledge of the basic elements of short fiction and drama in a series of quizzes, a midterm exam, or a final exam.

Students will demonstrate the ability to construct an original written analysis of a short story or work of drama in a documented, take-home essay, a midterm essay exam, or a final essay exam.

ENG 042A Survey of American Literature

Given a work of early American fiction or non-fiction, students will accurately identify, describe, and draw conclusions about key thematic as well as formal literary qualities such as plot, setting, character, narrative voice, and tone.

ENG 042B Survey of American Literature

Students will demonstrate knowledge and understanding of major literary works, movements, themes, authors, and defining characteristics of American literature from 1865 to the present in a midterm essay exam, a take-home essay, or a comprehensive final exam.

ENG 043C World Literature I

Students will demonstrate knowledge and understanding of the historically and culturally specific ideas that shaped world literature in antiquity through the seventeenth century, in particular world literature as one kind of artistic expression that transmits stories, beliefs, and values to future generations. This will be demonstrated through tests and essays.

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ENG 043D World Literature II

Students will demonstrate knowledge and understanding of the historically and culturally specific ideas that shaped world literature from the eighteenth century through the twenty-first century. They will demonstrate a particular understanding of world literature as one kind of artistic expression that transmits stories, beliefs, and values to future generations. This will be demonstrated by tests and essays.

ENG 044A Creative Writing: Short Story

Given a lecture on short story elements such as character and plot development, the student will write a short story draft. Given a lecture on short story elements, a lecture on peer response techniques, and a first draft of a classmate's short story, the student will apply peer response techniques which include reading and analyzing a story draft, then write a reader response letter to the author offering peer feedback for the purpose of assisting the author in revising the story to meet a reader's needs.

ENG 044B Creative Writing: Style

The student will demonstrate writing workshop skills. Given a first draft of a classmate's story, the student will read and analyze the draft for elements of narrative that work well and those that are confusing, then write a reader response letter to the author for the purpose of assisting in the revision assignment coming up next.

Given a lecture on short story elements such as setting, mood, and point of view, the student will write a short story draft.

Given a lecture on short story elements, a lecture on peer response techniques, and a first draft of a classmate's short story, the student will apply peer response techniques which include reading and analyzing a story draft, then write a reader response letter to the author offering peer feedback for the purpose of assisting the author in revising the story to meet a reader's needs.

ENG 044C Creative Writing: Poetry

Students will demonstrate their creative writing, analytical, organizational, and poetic crafting skills when they write poems on a topic related to the course.

ENG 044D Creative Writing: Play and Screen Writing

The student will identify the distinguishing elements of plays and screenplays. The student will identify these in written statements and discussions.

The student will evaluate and apply peers' responses to original script project. The student will respond in written statements and discussions.

The student will create treatments, outlines, synopses, pitches, storyboards, original characters lists of settings, packages based on original script idea. The student will create these in written format.

The student will respond to fundamental aspects in plays and/or screenplays. The student will respond in written statements and discussions.

The student will develop an original idea into portions of a play or film script in the accepted format. The student will do this in writing.

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ENG 044E Introduction to Creative Writing

Acquire ideas about form and genre from reading and evaluating published work. Student will prepare a list of approaches to specific elements fundamental to the genres of writing in which s/he is interested.

Incorporate peers' responses to original manuscript. Student will distinguish between peers' responses that will effectively develop his/her original manuscript form those that will not.

Write in a variety of genres. Student will produce portions of original manuscripts utilizing the same fundamental story in at least three genres of writing.

Initiate approaches to creative writing. Student will prepare a list of techniques and strategies that foster productivity, development, and quality of creative writing.

Conceive and create an original idea into a portion of a manuscript. Student will produce a portion of an original manuscript that includes the fundamental elements of the selected genre.

ENG 045 The Reading of Shakespeare

Students will demonstrate the understanding of plot structures in a written response to discussions.

Students will demonstrate a facility with Shakespearean language through an oral presentation and/or written translation and/or rhetorical analysis.

Students will identify Shakespeare's themes-- demonstrate how characters embody these themes across his oeuvre-- and connect them to contemporary art. Students will demonstrate this understanding in a written response to discussions.

Students will demonstrate an understanding of character, how character is developed, comes to life in the play-- and was relevant then and is relevant now. This will be demonstrated in an oral and/or a written essay.

ENG 046A Survey of British Literature I

The student will show understanding of various cultural, historical, and literary developments in the language and literature of the Middle Ages and the Sixteenth through Eighteenth centuries.

Students will demonstrate knowledge and understanding of the major literary works, movements, themes, authors, and defining characteristics of British Literature from the Anglo-Saxon period to the end of the Eighteenth Century.

The student will show understanding of various cultural, historical, and literary developments in the language and literature of the Middle Ages and the Sixteenth through Eighteenth centuries.

ENG 046B Survey of British Literature II

Students will demonstrate knowledge and understanding of the major literary works, cultural movements, themes, authors, and defining characteristics of British Literature from the Romantic, Victorian, and Modern periods.

The students will show understanding of various cultural, historical, and literary developments in the language and literature of the Romantic, Victorian, and Twentieth-Century periods.
Course Learning Outcomes Report

ENG 047 The Bible as Literature

Students will demonstrate knowledge and understanding of the types and characteristics of literature in the English Bible, with emphasis on its development, history, and impact on society up to the present day. This will be demonstrated through a series of essays and letters.

ENG 050H Special Studies: English

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

ENG 052 From Story to Screen

The student will examine and evaluate the differences and their effects between a literary work and its film adaptation, particularly elements of plot, character, narration, symbolism, structure, theme, description, setting, and dialogue, and their physical realization on the screen. The student will respond in essays and discussions.

The student will identify the distinguishing elements of short stories, novels, plays, screenplays, and films. The student will identify these in written statements and discussions.

The student will respond to fundamental literary elements in short stories, novels, plays, screenplays, and films. The student will respond in written statements and discussions.

The student will adapt a portion of a literary work for the screen. The student will do this in writing.

ENG 053 Freelance Writing

Develop an original idea into a portion of a manuscript in a polished and professional manner.

The student will distinguish between peers' responses that will effectively develop his/her original manuscript from those that will not, incorporating those that improve his/her original work.

The student will prepare marketing tools, including a biographical statement, pitch, rationale, target audience, competition, query letter, outline, synopsis, cover letter, cover page, and marketing strategies, to send to potential publishers. The student will do this in writing.

The student will consult various print and online sources to create a list of appropriate publishers to whom s/he may submit query letter and/or a specific original manuscript.

ENG 055 Reading Plays: Critical Approaches

The student will analyze themes, characters, and symbolism in a play, and the ways in which they are expressed and revealed. The student will respond in essays and discussions.

The student will identify the distinguishing elements of dramatic literature. The student will create a list of the significant differences between drama and prose fiction.

The student will apply a major critical approach in the reading of a play and identify the specific elements it reveals. The student will respond in essays and discussions.

The student will analyze the dialogue, didascalia, and format of a play. The student will respond in short writings and discussions.

The student will identify the major or significant elements of the plot and/or the structure of a play. The student will create a list of specific plot and/or structural elements of a play.
**Course Learning Outcomes Report**

**ENG 055B Introduction to Fiction**

Students will demonstrate knowledge and understanding of the types and characteristics of Fiction in English, including short stories, novellas, and novels, with emphasis on its development, history, and impact on society up to the present day. This will be demonstrated through a series of quizzes and documented essays.

**ENG 057 Children's Literature**

Students will critically analyze a novel written for children and formulate an interpretation, supporting claims with evidence from the story.

**ENG 060 Practical English Grammar**

1. Identify the eight parts of speech. 2. Compose paragraphs with a high degree of clarity.

**ENG 064A Developing the Script**

Respond effectively to peers' evaluation and suggestions concerning one's original script.

Develop characters following a variety of paradigms.

Develop effective dialogue that reveals subtext and exposition.

Develop an initial, original concept or plot into a significant portion of a completed script in proper format.

Outline the structure of an original script in a variety of paradigms.

**ENG 070 Basic Writing Skills I**

The student will be able to write short compositions that are meaningful to readers. This will be demonstrated in a portfolio of four short compositions—including letters, summaries, responses to articles, and revised compositions which will be holistically evaluated by faculty using a grading rubric created in collaboration among faculty including faculty at higher level courses in Delta's writing program. The student must achieve a grade of C or better on the portfolio. Faculty who teach this course review collective course performance of this outcome every semester and keep cumulative data.

**ENG 073A Writing Laboratory I**

The student will use critical thinking skills to identify ideas in his or her own short composition which need richer development so that a reader will grasp meaning more fully. The student will then add in appropriate examples, details, etc., to develop ideas more fully.

**ENG 073B Writing Laboratory II**

Student will utilize critical thinking in assessing areas of academic compositions such as the essay which need more development.
Course Learning Outcomes Report

ENG 079 Preparatory English

The ability to write an eighty minute in-class expository essay in response to a reading; this essay will demonstrate beginning competence in both form and content. The essay will 1) address the writing task 2) be adequately organized 3) use some details and examples to support the thesis and 4) demonstrate adequate facility with grammar and syntax.

ENG 079L Preparatory English

Demonstrate knowledge of the essay, which includes an introduction with a thesis, well-developed body paragraphs with topic sentences, and a conclusion; also, demonstrate a knowledge of grammar and usage.

ENG 080 Survival English

Students will be able to read written materials in English at the elementary level and show a basic understanding of them.

ENG 081 Advanced Survival English

Students will be able to identify basic verb tenses.

ENG 082R Basic English as a Second Language (ESL)

Given a level-appropriate reading passage, the student will accurately demonstrate comprehension and will accurately respond in writing given a prompt based on the passage. Student must achieve an "acceptable" or higher level on the assessment rubric.

ENG 082W Basic English as a Second Language (ESL)

Given a level-appropriate reading passage, the students will accurately demonstrate comprehension and will respond given a prompt based on the passage. Student must achieve an "acceptable" or higher level on the assessment rubric.

ENG 083R Low-Intermediate English as a Second Language (ESL)

Students will demonstrate the ability to decode a text illustrating his/her ability to comprehend the author's meaning on a mastery test. Students must score 70% or better on the Reading Mastery Examination. Faculty who teach this course will collaborate with others in the discipline group and review collective course performance of this outcome.

ENG 083W Low-Intermediate English as a Second Language (ESL)

Students will compose a descriptive, narrative, and comparison contrast composition with adequate accuracy of basic English sentence structure.

ENG 084R Intermediate English as a Second Language (ESL)

Students will demonstrate the ability comprehend a level appropriate text on the Reading Mastery Examination. Students must score 70% or better.
Course Learning Outcomes Report

ENG 084W Intermediate English as a Second Language (ESL)

Given a writing prompt and scaffolding from the instructor, such as topic sentences and introductions, students will compose a multi-paragraph composition. Students will achieve an “acceptable” or higher level on the writing rubric.

ENG 085 Advanced English as a Second Language (ESL)

Students will demonstrate the ability to comprehend a level appropriate text on the Reading Mastery Examination. Students must score 70% or better.

ENG 086A English as A Second Language (ESL) Laboratory

Students will be able to engage in basic and culturally appropriate conversations in English. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

ENG 086B English as a Second Language (ESL) Laboratory

Students will respond appropriately to basic questions in English.

ENG 086C English as a Second Language (ESL) Laboratory

Students can narrate a simple personal story on a given topic.

ENG 086D English as a Second Language (ESL) Laboratory

Students will be able to demonstrate comprehension of a brief, simple recording.

ENG 086E English as a Second Language (ESL) Laboratory

The student demonstrates comprehension of a level-appropriate audio recording.

ENG 086F English as a Second Language (ESL) Laboratory

Students can identify the main idea and major supporting details of a brief lecture on an academic topic.

ENG 087 Basic Writing Skills II

The student will demonstrate knowledge of writing by summarizing and responding to various readings on real-world issues and by composing short essays. The writing will demonstrate the student's ability to think, reason, and reflect critically.

ENG 095 Basic Writing Skills I

The student will produce a portfolio of three pieces of his/her best writing: a one-paragraph objective summary of a given text, written in class; a multiple-paragraph subjective response to a given text, written in class; and a practical piece of writing related to an occupational field of interest to the student.

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Course Learning Outcomes Report

**ENGR 001 Introduction to Engineering and Technology**

Students will clearly communicate the solution of basic engineering problems using Given/Find/Solution method on class assignments.

Students will work in teams to solve engineering design projects using standard design procedures in lab assignments.

Students will demonstrate knowledge of engineering terminology and units of measure in class quizzes and exams.

**ENGR 002 Engineering Graphics**

The student will inspect and measure engineering parts and systems and make accurate, dimensioned sketches of same in classroom and laboratory assignments.

The student will use 3-D parametric modelling software to construct accurate models of a variety of engineering parts and systems in classroom and laboratory assignments.

The student will construct detailed parts and assembly drawings using standard dimensioning, tolerancing and annotation methods in classroom and laboratory assignments.

**ENGR 004 Engineering Materials**

Students will demonstrate a knowledge of the properties of standard engineering materials in classroom quizzes and exams.

Students will demonstrate understanding of the relationship between material microstructure and chemical, mechanical and physical properties of materials in classroom quizzes, exams, and in laboratory reports.

Students will perform standard material testing procedures, record, analyze and present data in report form in laboratory assignments.

**ENGR 006 Engineering Circuit Analysis**

Students will be able to model, build and test basic electrical circuits on lab assignments and lab tests.

Students will solve equations (using calculus and differential equations) arising from the applications of Kirchhoff’s Laws and Thevinen’s Theorem to direct current (DC) and alternating current (AC) circuits on homeworks, quizzes and exams.

**ENGR 008 Statics**

Students will calculate (using Calculus) equations for determining the centroid and moment of inertia for two-dimensional and three-dimensional objects.

Students will solve equations (using Calculus and Physics) equations arising in the analysis of forces action on rigid bodies on homeworks, quizzes and exams.
Course Learning Outcomes Report

ENGR 010 Surveying

Students will solve problems related to length, leveling, angles, traverse adjustments, areas, volumes, and curves on homeworks, quizzes and exams.

Students will demonstrate the ability to use surveying equipment required to measure lengths, elevations, and angles on lab tests.

ENGR 015 Selected Topics in Engineering

Will vary by topic course developed.

ENGR 029 Engineering Applications for Digital Computations

Students will solve engineering problems (using Excel and MatLab) arising from the applications of varity of civil, electrical and mechanical problems

Students will be able to apply logic needed for the solution of programs needed in future engineering classes.

ENGR 050H Special Studies: Engineering

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

ENGR 069V Internship: Engineering Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

ENGR 075 Selected Topics: Engineering

Will vary by topic course developed.

ENGR 075A Mathematical Applications in Engineering

The student will be given a design project for a specific problem/situation and will produce an acceptable solution that demonstrates: 1. the concept of mass density and methods of calculation, 2. of material elastic modulus and ultimate tensile strength and methods of measurement and calculation, 3. of voltage, current and resistance and means of measurement and calculation, 4. the mathematical relationship between solar panel and sun angles and power produced by the solar panel, 5. effect of gear ratios on power and speed transmission, 6. the relationship between pressure, volume flow rate, flow velocity, and pipe diameter in fluid mechanics applications.

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Course Learning Outcomes Report

ENGR 098V Work Experience: Engineering Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

FASHION 002 Introduction to the Fashion Industry

Students will be able to describe the principles of demographics and psychographics and analyze their affects on today's fashion market.

Students will be able to analyze the flow of fashion merchandise from each level of the industry, from the concept to the consumer.

Students will be able to demonstrate the techniques of fashion forecasting used in the fashion industry.

FASHION 004 Fashion Product Analysis

Students will be able to describe the various products classified in each segment of the fashion industry and the desireable characteristics of each, including men's apparel, women's apparel, children's apparel, accessories, jewelry and cosmetics.

Students will be able to describe the methods of finishing fabrics, identifying the various finishes used on fabrics for fashion.

Students will be able to identify various fibers and their uses.

FASHION 006 Textiles

Students will demonstrate and understanding of the various fabric weaves used in garment and interior design fabric construction.

Students demonstrate an understanding of physical and chemical properties of fibers, fabrication systems for yarns and fabrics, the technology of fabric dyes, and decorative processes and finishes.

Students will identify those fibers characterized as natural fibers and those as man-made, ad the specific qualities of each that are most used in the fashion and interiors industries.

FASHION 007 Textile Design Lab

The student will complete one weaving project, demonstrating the technique of plain, twill or satin weaves.

The student will complete a textile design using one of the following methods: macrame, weaving, rug hooking, stitchery, applique, or any combination of these methods.

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FASHION 008 History of Fashion to the Twentieth Century

Students will be able to trace the costumes worn by specific cultures at specific times.

The student will be able to identify the particular items of costumes worn by each significant character in a movie that will be selected from an approved list.

FASHION 009 History of Fashion from the Twentieth Century to Present

Students will be able to trace the specific fashion trends of the decades of the twentieth century and the factors that influenced those trends.

Students will identify the costume of a particular period of time and place from the twentieth century through the present time.

Students will be able to identify the major designers of the twentieth century to present who influenced fashion change.

FASHION 010 Clothing and Culture

Student will demonstrate an understanding of the social, economic, political and religious influences on costume.

Students will be able to identify the factors that affect costume of social groups, both traditional and non-traditional.

FASHION 018 Consumer Behavior in Fashion and Interiors

Students will be able to identify the patterns of behavior of consumers in the fashion environment.

Students will identify the factors that influence the purchase of fashion goods within specific consumer markets.

FASHION 019 Retailing Fashion and Interiors

Students will demonstrate a deep understanding of the strategic nature of marketing within retailing businesses for fashion and interior products.

Students will demonstrate awareness of current and future developments and challenges faced by fashion retail professionals within international retailing companies.

FASHION 020 Retail Buying

Students will visit three different types of retailers: traditional, discount, boutique. Selecting five key brands, students will evaluate pricing and demonstrate understanding of the pricing policy, including mark-up percentage by comparing the three retail pricing policies as outlined in the text and lecture.

Students will visit one retailer of any category. Studying one department, students will evaluate the buyer's effectiveness for the product of that department, reviewing product lines and brands purchased, merchandising of those brands and pricing of merchandise within the department.
FASHION 021 Trend Forecasting for Fashion & Interiors

Using information from the text and class discussion, research one particular current cultural influence on current trends in either fashion or interior design. Find pictures of trends that illustrate the cultural influence. Create a story board demonstrating the influence of the specific cultural factor chosen on current fashion or interior design.

Using the information from the class discussion on demographic and economic trends, predict specific fashion or interior trends for American consumers in current and future markets.

FASHION 022 Fashion Promotion and Marketing

Students will demonstrate an understanding of specific elements of a marketing plan, including positioning, event planning, and advertising.

Students will demonstrate an understanding of the methods of promotion used by small fashion businesses in today's industry.

FASHION 023 Fashion Reporting

Write an article that could be published in a magazine.

FASHION 024 Visual Merchandising/Store Design I

Students will demonstrate and understanding of the techniques, discussed in class and in the text, used in building props for visual presentation.

Using the techniques discussed in class, students will be able to analyze a retail store design for visual effectiveness and retail success.

FASHION 028A Fashion Event Production

Student will be able to develop a successful press release for a special event for the fashion industry.

Student will be able to create an effective advertising and marketing campaign for a special event for the fashion industry.

Student will be able to plan and execute a special event related to fashion.

FASHION 028B Fashion Event Production Lab

Student will create an effective advertising and marketing campaign for a special event for the fashion industry.

Student will develop a successful press release for a special event for the fashion industry.

Student will plan and execute a special event related to fashion.

FASHION 030 Basic Industry Sewing

students will be able to construct a garment made of a woven fabric and a garment out of a knit fabric.

Students will be able to properly utilize a serger (overlock machine) in the construction of a garment.

Students will be able to properly install a zipper using two different methods of installation.
Course Learning Outcomes Report

FASHION 031 Intermediate Industry Sewing

Student will demonstrate utilization of a production pattern for design, using proper marker making and cutting, and organizing the workflow using production methods.

Demonstrate intermediate construction techniques on industrial equipment, constructing a garment to industry standards, identifying the specifications required for apparel production.

FASHION 032 Advanced Industry Sewing

Student will be able to operate industrial sewing equipment used in the industry.

Demonstrate knowledge of industrial apparel cutting and sewing in construction of a garment, using industrial equipment including sewing machines and sergers.

Student will be able to alter a commercial pattern to fit specific industry sizes.

FASHION 033 Alterations and Fit

Student will adjust commercial pattern for correct fit on the body.

Student will alter ready-to-wear garment for proper fit.

FASHION 036 Flat Pattern I

Student will create a half-scale pattern based on industry criteria given in class.

Student will complete industry-sized full-scale garment pattern, draft and construct garments with various criteria.

FASHION 037 Flat Pattern II

Discuss construction and pattern-making terms and processes.

Demonstrate use professional pattern-making techniques

FASHION 042 Couture Techniques I- Embellishments

Student utilizes embellishment techniques on a custom-designed garment.

Student evaluates embellishments used in couture sewing.

FASHION 050H Special Studies: Fashion

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

faculty teaching this course.
Course Learning Outcomes Report

FASHION 051 Beginning Fashion Illustration

Student will render fabrics of a variety of textures.
Students will use a variety of mediums, including pencil, color and pen.
Student will render a croqui, modeling the technique taught in class.

FASHION 052 Advanced Fashion Illustration

Student will be able to create a rendering for portfolio presentation.
Student will be able to sketch and render a collection of garments on a crqui.

FASHION 053 Fashion Inspiration and Design

Analyze designer collection to determine inspirations used to create the collection.
Students will be able to create a presentation of garments based on a theme provided.

FASHION 054 Collection Design and Production I

Students will be able to design a collection based on a particular inspiration.

FASHION 055 Collection Design and Production II

Students will be able to present an originally designed collection of garments based on a particular inspiration, fitting a series of specific models, to retail towards a specific target customer.

FASHION 056 Internship and Portfolio Development for Fashion & Interiors

Student will be able to develop effective and contemporary resume for career placement.
Student will be able to outline required skills for placement in the career of his or her choice.
Student will be able to develop effective and contemporary portfolio to be used in interview for career placement.

FASHION 058 Fashion Entrepreneurship

Student will develop a business concept for a viable small business in the fashion industry that meets today's consumer market trends.

FASHION 060 Fashion Industry Tour

Student will identify career opportunities in the fashion industry and the skills necessary for success in those careers.

FASHION 068 Fashion Design Laboratory

The student will complete apparel design garments utilizing guidelines from apparel design courses.
Course Learning Outcomes Report

FASHION 147A Basic Industry Sewing

Students will construct a garment made of a woven fabric and a garment out of a knit fabric.
Students will properly utilize a serger (overlock machine) in the construction of a garment.
Students will properly install a zipper using two different methods of installation.

FCS 002 Life Management

Student will demonstrate knowledge of personal goal setting concepts and apply it to life planning.
Students will be able to identify life changes that are needed to help them to reach their life goals.
Student will master skills that are needed for family and workplace communication, including speaking, listening, conflict management, and group functioning.
Student will create a plan for achieving a life goal.

FCS 003 Home Management and Finance

Student will create a plan for achievement of personal financial security.
Student will demonstrate knowledge of personal financial concepts and apply it to the home setting.
Student will select the best consumer options from the financial instrument marketplace.

FCS 005 Basic Nutrition

Students will describe unique nutritional needs and challenges during the human life cycle on quizzes, exams or homework assignment.
Student will use the Dietary Guidelines for Americans to create and critique a diet plan for individuals and the family.
Students will evaluate nutritional claims using the principles of the scientific method on quizzes, exams or homework assignment.

FCS 006 Nutrition

Students will identify healthful foods in the marketplace by completing a Diet Study project based on the Dietary Guidelines for Americans.
Students will recognize the consequences of unhealthful eating by completing a Diet Study project based on the Dietary Guidelines for Americans.
Student will be able to evaluate and to develop meal plans that are healthful by completing a Diet Study project based on the Dietary Guidelines for Americans.

FCS 007 Healthful Eating

Student will keep track of eating patterns for three days using a food diary which tracks food intake, time of day, place, and emotional reactions to food.

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FCS 015 Selected Topics: Family and Consumer Sciences
Will vary by topic course developed.

FCS 023 Marriage and the Family
Using current research, the student writes an essay analyzing by comparing and contrasting strategies for supporting quality family communication.
In an essay, and after interviewing at least two different families to identify at least three different aspects of society that influence family relationships, the student presents his/her paper.

FCS 050H Special Studies: Family and Consumer Sciences
The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

FCS 080 Selected Topics: Family and Consumer Sciences
Will vary by topic course developed.

FCS 093V Work Experience: Family and Consumer Studies
The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

FIRE 069V Internship: Fire Technology
The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

FIRE 070 Fire Protection Organization
The student will identify fire protection systems and equipment through a oral presentation.
The student will compare and contrast the elements of the contemporary fire service through a written exam.

FIRE 071 Fire Prevention Technology
The student will identify occupancies and their building construction principles and characteristics through a oral presentation.
The student will be able to compare and contrast components and operational deficiencies in a sprinkler system through a written exam.
Course Learning Outcomes Report

FIRE 072 Fire Protection Equipment and Systems
The student will explain the types of standpipe systems and water supply requirements through a written exam.
The student will list types, components, and operations of automatic and special sprinkler systems through a written exam.

FIRE 073 Building Construction for Fire Protection
The student will compare and contrast structural members of various types of construction through a written exam.
The student will identify firefighting practices and procedures on the five construction types through an oral presentation.

FIRE 074 Fire Behavior and Combustion
The student will explain the components of fire and the chemical chain reaction of it through an oral presentation.
The student will identify flashover and backdraft in a compartment fire through a written exam.

FIRE 075 Fire Hydraulics
The student will compare and contrast long hydraulic calculations and rapid rule calculations through a written exam.
The student will evaluate proper and erroneous engine pressures through an oral presentation.

FIRE 076 Instructional Planning in Fire Science
The student will demonstrate the ability to teach a non-fire related topic using adult learning concepts through a skill examination.
The student will demonstrate the ability to teach a fire course topic using adult learning concepts through a skill examination.

FIRE 077 Instructional Techniques
The student will demonstrate the ability to teach a fire related course through a skill exam.
The student will develop and present the use of various instructional aids through a skill exam.

FIRE 078 Fire Management
The student will compare and contrast leadership styles and traits of the fire service through a written exam.
The student will demonstrate the role of a company officer with a given scenario through a skill exam.

FIRE 079 Fire Investigation
The student will process a fire scene involving the crime of arson through a skill exam.
The student will correctly interpret the burn pattern left at the scene of a fire through a skill exam.
Course Learning Outcomes Report

FIRE 080 Introduction to Fire Prevention
The student will interpret and refer to the California Uniform Fire Code through a written exam.
The student will identify basic exiting requirements through a written exam.

FIRE 081 Fire Prevention Practices
The student will identify the different types of sprinkler systems through a written exam.
The student will identify the inspection procedures for a standpipe system through a written exam.

FIRE 082 Confined Space Rescue
The student will be able to construct safely line system through a skill exam.
The student will identify the personal protective equipment needed to perform a confined space rescue through a written exam.

FIRE 083 Fire Investigation Techniques
The student will testify at a mock trial regarding the ignition source of a hypothetical fire investigation through a skill exam.
The student will identify methods to collect and preserve the evidence pending a criminal trial through a written exam.

FIRE 084 Fire Investigation Report Preparation
Using a previously prepared report, the student will testify at a mock trial regarding the nature of the fire investigation, including opinions and conclusions relating to the cause of the fire/explosion.
The student will accurately and legally conduct a mock interrogation of a criminal suspect, following procedure and case law guidelines.
Given a scenario, the student will conduct a photo line-up with a witness to identify a person responsible for a crime.

FIRE 090 Selected Topics: Fire Technology
The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

FIRE 090Z Trench Rescue Operations
Respond to a mock fire rescue and mitigate hazards and risks during the rescue.
Given a scenario, the student will identify the type of equipment that is needed for a trench rescue operation.
Plan, staff, and manage a mock fire rescue scenario, utilizing the incident safety plan.
Course Learning Outcomes Report

FIRE 091 Basic Fire Academy
Inspect and maintain firefighting and rescue equipment.
Inspect and maintain personal protective equipment.
Perform essential and advanced fire ground tasks.

FIRE 091V Work Experience: Fire Technology
The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

FIRE 092 Fire Investigation
The student will identify the progression of fire from the point of origin through a skill exam.
The student will explain the cause and origin techniques through a skill examination.

FIRE 093 Rescue Systems
The student will describe proper rescue operations for an non-ambulatory person, through a skill exam.
The student will develop an effective rescue plan at the scene of a hypothetical rescue involving one or more people through a skill exam.

FIRE 093A Report Preparation
The student will gather proper information from the scene through a written exam.
The student will properly interview by using communication skills through a skill exam.

FIRE 094 Techniques of Fire Investigation
Conduct a thorough and complete criminal investigation of a mock crime scene to determine if a crime of arson occurred.
Critically review and correctly interpret the burn patterns left at the scene of a fire to determine the origin of the fire, and how the fire started.
At the conclusion of this course, the student will be able to: Evaluate and process a hypothetical crime scene involving the crime of arson.

FIRE 095A Fire Command, Strategy and Tactics
The student will give a proper report on conditions through a skill exam.
The student will demonstrate the role of the first-in officer through a skill exam.

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FIRE 095B Incident Command

The student will demonstrate an effective fire ground organization at a mock fire scene, using divisions to decentralize responsibilities. Through a skill exam.

The student will identify appropriate tactic for a given hypothetical situation through a skill exam.

FIRE 096 Fire Command Operations

The student will assume the role as the incident commander and manage the incident through a skill exam.

The student will place fire apparatus in the appropriate positions depending on the incident through a skill exam.

FIRE 097 Advanced Fire Protection Practices

The student will identify the regulations governing the transportation of flammable and combustible liquids through a written exam.

The student will identify the proper procedures for the management of underground storage tanks containing flammable and combustible liquids through a written exam.

FIRE 098 Fire Vehicle Operations

The student will conduct a vehicle inspection to ensure that the fire apparatus is in good operation order through a skill exam.

The student will determine the most effective manner to position a fire apparatus at emergency scenes at a mock fire scene through a skill exam.

FIRE 099 Fire Apparatus Driver/Operator

The student will identify how to attach the fire apparatus to a fire hydrant through a skill exam.

The student will identify proper drafting procedures given a hypothetical static water supply through a written exam.

FKC 096 Parenting Children in Foster and Relative Care

describe the cause and effect origins of certain negative behaviors.

outline and describe two community and internet resources that support caregivers and the children/youth in their care.

identify and explain effective parenting techniques for managing certain behaviors on a written assignment.

FKC 099A Meeting the Developmental Needs of Children at Risk

Students will demonstrate their understanding of the term "at risk" child and the basic needs of children at risk through submission of a written report.

Students will be able to describe techniques to support children's resiliency and overall growth and development.

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FKC 099B Sexual Development and Signs of Sexual Abuse

Students will demonstrate their understanding of appropriate supports for children who have been abused and of the mandated reporting requirements of child abuse through submission of a verbal or written report.

Students will exhibit knowledge of the signs and symptoms, which suggest child sexual abuse through completion of a faculty developed assessment tool.

FKC 099C Supporting Relationships between Children and Their Families

Students will demonstrate their knowledge of methods of establishing and maintaining respectful partnerships between foster parents, children and birth families through a written report of insights gained during a foster or adoptive family interview.

FKC 099D The Child Welfare Team

Students will identify and describe the roles and responsibilities of each member of the child welfare team through a written research report.

FKC 099E Nurturing Lifetime Relationships

Students will exhibit their knowledge of the importance of nurturing lifelong relationships for children with families by completing a verbal or written report of a family interview.

FKC 099F Using Discipline to Protect and Nurture

Students will exhibit knowledge of age appropriate challenging behavior and multiple methods of child discipline used to protect and nurture, through a proficient score on exam.

FKC 099G Promoting Children's Personal and Cultural Identity

Students will demonstrate their understanding of the ways, in which caregivers can promote the positive self concept of children in their care and articulate such in a written report.

FKC 099H The Impact of Placement on Foster Families

The student will be able to explain how foster families effectively manage the placement of foster children in their homes.

FKC 099I The Impact of Chemical Dependency on Children and Families

The student will be able to describe the affects of chemical exposure on prenatal development.
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FKC 099J Children in Biracial/Bi-Ethnic Families

The student will be able to explain the ages and stages of racial/ethnic identity development.

FKC 099K Reducing Risk/Vulnerability in Children Through Resiliency Training

The student will be able to identify and describe resiliency.

FKC 099L Parenting Premature and Chemically Exposed Infants

identify and describe medically fragile infants, and the special care they require.

FKC 099M Parenting Children with Special Needs

The student will be able to identify and describe 5 types of special needs children may have.

FKC 196 Parenting Children in Foster and Relative Care

identify and explain effective parenting techniques for managing certain behaviors on a written assignment.

describe the cause and effect origins of certain negative behaviors.

outline and describe two community and internet resources that support caregivers and the children/youth in their care.

FKC 199A Meeting the Developmental Needs of Children at Risk

Students will be able to describe techniques to support children's resiliency and overall growth and development.

Student will demonstrate their understanding of the term "at risk" child and the basic needs of children at risk through submission of a research report.

FKC 199B Sexual Development and Signs of Sexual Abuse

Students will demonstrate their understanding of mandated reporting requirements of child abuse and of appropriate supports available to children who have been abused.

Students will demonstrate their understanding of the signs and symptoms that suggest sexual abuse through a verbal/written assessment.

FKC 199C Supporting Relationships Between Children and Their Families

Students will demonstrate their knowledge of methods used to establish and maintain respectful partnerships between foster parents, children and birth families through a written report of insights gained during a foster or adoptive family interview.

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FKC 199D The Child Welfare Team

Student will be able to identify and describe the role of each child welfare team member.

FKC 199E Nurturing Lifetime Relationships

Students will exhibit their knowledge of the importance of nurturing lifelong relationships between children and families through provision of a report following a family interview. Report may be done in writing or through facilitation of a classroom discussion.

Student will be able to describe the pros and cons of both reunification and adoption.

FKC 199F Using Discipline to Protect and Nurture

Students will exhibit knowledge of age appropriate challenging behavior and multiple methods of child discipline used to protect and nurture, through class presentation or submission of a short research report.

FKC 199G Promoting Children's Personal and Cultural Identity

Student will describe ways a foster or adoptive parent can promote the positive self concept and cultural identity of a child in their care through submission of a research report.

Students will demonstrate their understanding of the ways, in which caregivers can promote the positive self concept of children in their care and articulate such in a presentation or written report.

FKC 199H The Impact of Placement on Foster Families

The student will be able to explain how foster families effectively manage the placement of foster children in their homes.

FKC 199I The Impact of Chemical Dependency on Children and Families

The student will be able to describe the affects of chemical exposure on prenatal development.

FKC 199J Children in Biracial/Bi-Ethnic Families

The student will be able to explain the ages and stages of racial/ethnic identity development.

FKC 199K Reducing Risk/Vulnerability in Children Through Resiliency Training

The student will be able to identify and describe resiliency.

FKC 199L Parenting Premature and Chemically Exposed Infants

identify and describe medically fragile infants, and the special care they require.

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FKC 199M Parenting Children with Special Needs

The student will be able to identify and describe 5 types of special needs children may have.

FREN 001 Elementary French

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

FREN 002 Elementary French

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

FREN 003 Intermediate French

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

FREN 004 Intermediate French

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

FREN 005 Advanced French

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the advanced level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the advanced level.

FREN 036A Introductory French Conversation

Student is able to speak in the target language with basic fluency in the genre chosen as focus of this course.
FREN 036B Beginning French Conversation
   Student is able to speak in the target language with basic fluency in the genre chosen as focus of this course.

FREN 038A Special Assignment: Listening
   Student is able to understand the spoken target language in the genre chosen as focus of this course.

FREN 038B Special Assignment: Pronunciation
   Student is able to speak in the target language in the genre chosen as focus of this course.

FREN 038C Special Assignment: Reading
   Student is able to read in the target language and in the genre chosen as focus of this course.

FREN 038D Special Assignment: Writing
   Student is able to write a text in the target language and in the genre chosen as focus of this course.

FREN 050H Special Studies: French
   The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

FREN 075 Selected Topics: French
   Students will demonstrate linguistic skills and/or cultural understanding related to the French language and the cultures of French speakers.

GEOG 001 Physical Geography
   Students will be able to determine their latitude by measuring the noon sun angle on different days of the year.
   Students will be able to solve problems of travel across time zones and the international date line
   Students will be able to read maps and convert fractional and graphic scales to verbal scales.

GEOG 001L Physical Geography Laboratory
   Student will analyze processes in meteorology and geomorphology using the scientific method.
   The student will solve problems that apply critical thinking and scientific methodology to analyses of processes in meteorology and geomorphology on tests and examinations with 70% accuracy. 50% of students will achieve this outcome.
   The student will at 70% accuracy identify and recognize 3-dimensional landscape features on areal photographs using stereoscopes on examinations. 50% of students will achieve this outcome.
   The student will identity locations by latitude and longitude, measure and determine the scale of distance between places, read contour lines, calculate slope on a topographic map with at least 70% accuracy on the final examination. 50% of students will achieve this outcome.
GEOG 002 Cultural Geography

Student will be able to compute population growth rates and evaluate the key demographic variables from region and global data.
Student will identify regional and spatial differences in race, language, and religion.

GEOG 003 Geography of California

Students will correctly demonstrate comprehension of concepts related to principles of California's Physical Geography such as landforms, climate, natural vegetation, soils, fauna, and water resources on exams.
Students will demonstrate an understanding of cultural change on the landscape beginning with Native American culture and progressing through the eras of Spanish, Mexican, and American administrations by producing an oral report and by correctly answering exam questions.
Given a series of outline maps of California and its counties, students will identify the specified counties, cities, highways, dams, canals, native Indian tribes, contemporary and historic ethnic group distributions, rivers, mountains, climates, and patterns of agricultural activities.

GEOG 010 World Regional Geography

Student will identify and recognize the correct location of places for each region of the world taken from a list provided in the syllabus.
Student will monitor current events taking place in countries throughout the world and relate those events to the characteristics of those countries.

GEOG 020 Introduction to Geographic Information Systems (GIS)

The student will create a final project using data that was prepared from GIS inputs. He/she will be able to upgrade a poorly designed map to publishable form adhering to correct cartographic standards.
The student will demonstrate proficiency using the Arc View (GIS) program by manipulating data and creating tables and maps.

GEOG 050H Special Studies: Geography

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

GEOL 001A Physical Geology w/Lab

Students will apply the scientific method to locate the epicenter of an earthquake and determine its magnitude using an online interactive computer module and test items.
Students will apply the scientific method to identify common rocks and minerals using simple field techniques in group work and a laboratory practical exam.
Students will apply the scientific method to locate, identify, and interpret features on topographic and geologic maps in group work and a laboratory practical exam.
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GEOL 001B Historical Geology w/Lab

Students will apply the scientific method to correlate rocks between different locations using practice assignments (in-class, homework) and test items.

Students will apply the scientific method to identify fossils in group work and a laboratory practical exam.

Students will describe major sedimentary depositional environments and criteria for their recognition using practice assignments (in-class, homework, laboratory) and test items.

GEOL 005 Earth Science

The student will identify the different parts of the rock cycle.

The student will apply Earth science principles and concepts to solve problems. For example, the student will analyze seismograms to determine the location (epicenter) of an earthquake.

GEOL 010 General Geology

Students will apply the scientific method to determine the geologic age of rocks using practice assignments (in-class, homework) and test items.

Students will apply the scientific method to understand groundwater flow using in-class activities, homework assignments, and/or test items.

Students will apply the scientific method to locate the epicenter of an earthquake and determine its magnitude using an online interactive computer module and test items.

GEOL 015 Environmental Geology

Analyze the impact of earthquakes on different types of buildings.

Understand how the size and location of an earthquake are identified.

Assess the risk of flooding for a site.

Demonstrate how contaminants are disbursed in groundwater.

GEOL 016 Oceanography

Recognize the relationship between coral reef development and plate motions.

Recognize the major gyres and currents in the world ocean.

Recognize how the availability of nutrients and solar radiation affect primary productivity in the surface ocean.

Outcome: Recognize the salinity adaptations of marine and freshwater fish.

Distinguish between shallow-water waves and deep-water waves.
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GEOL 050H Special Studies: Geology

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student’s abilities and knowledge.

GERM 001 Elementary German

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

GERM 002 Elementary German

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

GERM 003 Intermediate German

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

GERM 004 Intermediate German

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

GERM 038A Special Assignment: Listening

Student is able to understand the spoken target language in the genre chosen as the focus of the course.

GERM 038B Special Assignment: Pronunciation

Student is able to speak in the target language in the genre chosen as the focus of the course.
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**GERM 038C Special Assignment: Reading**
Student is able to read a text in the target language and in the genre chosen as the focus of the course.

**GERM 038D Special Assignment: Writing**
Student is able to write a text in the target language and in the genre chosen as the focus of the course.

**GERM 050H Special Studies: German**
The student will demonstrate advanced skills with the German language and/or culture and/or literature. The student will develop and demonstrate research skills appropriate to the topic selected. The student will analyze and examine the selected topic in depth, showing critical thinking skills.
The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

**GERM 075 Selected Topics: German**
Students will demonstrate linguistic skills and/or cultural understanding related to the German language and the cultures of German-speakers.

**GRART 001A Digital Imaging**
Students will demonstrate and apply the process of selection techniques through a project based activity. This will be evaluated using the Digital Image check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on the Digital Image check list.

**GRART 001B Digital Imaging**
Students will demonstrate and apply the process of selection techniques through a project based activity at the beginning level. This will be evaluated using the Digital Image check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on the Digital Image check list.

**GRART 002A Layout Design**
Students will demonstrate and apply the process of designing page layouts through a project based activity. This will be evaluated using the Layout Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on the Layout Design check list.

**GRART 002B Layout Design**
Students will demonstrate and apply the process of designing page layouts through a project based activity at the beginning level. This will be evaluated using the Layout Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on the Layout Design check list.

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GRART 003A Computer Art

Students will demonstrate and apply the process of designing logos through a project based activity. This will be evaluated using the Computer Art check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Computer Art check list.

GRART 003B Computer Art

Course Outcome: Students will demonstrate and apply the process of creating an object using gradient mesh techniques through a project based activity. This will be evaluated using the Computer Art check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Computer Art check list.

GRART 004A Graphic Design for the World Wide Web

Students will demonstrate and apply the process of designing web pages through a project based activity. This will be evaluated using the Web Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Web Design check list.

GRART 004B Graphic Design for the World Wide Web

Students will demonstrate and apply the process of designing web pages through a project based activity. This will be evaluated using the Web Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Web Design check list.

GRART 005 Selected Topics: Graphics Arts

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

GRART 005B Storyboarding and Visual Effects for Animation

Digitally produce film files from storyboard.
Develop a written story.
Develop storyboard.

GRART 006A Publication Design

Students will demonstrate and apply the process of designing pre-press publications through a project based activity. This will be evaluated using the Publication Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Computer Art check list.

GRART 006B Publication Design

Students will demonstrate and apply the process of designing pre-press publications through a project based activity. This will be evaluated using the Publication Design check list. 70% of the students will successfully demonstrate 4 of the 6 required skills on Computer Art check list.
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GRART 007A Introduction to Two-Dimensional (2D) Animation

- Complete animation.
- Develop storyboard.
- Develop written story.

GRART 007B Intermediate Two-Dimensional (2D) Animation Concepts

- Produce Storyboards
- Animate characters
- Animate visual Effects

GRART 050H Special Studies: Graphic Arts

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

GUID 005 Enhancing Self-Esteem, Cultural Awareness, and College Success

Students will demonstrate their knowledge of what self-esteem is and their understanding of strategies for increasing their self-esteem. 70% of students will score 100% on quiz/test questions.

Students will gain a greater sense of personal and cultural values and identity.

Students will demonstrate their knowledge of the different pathways to successfully meet their educational goals. 70% of students will score 100% on quiz/test questions.

Students will demonstrate their knowledge of cultural identity. 70% will score 100% on quiz/test questions.

GUID 008 Education and Interpersonal Growth

Student will understand the significance of strokes and how positive strokes and negativity affect a person's development and self-esteem. Student will learn how to use positive strokes in an interaction with other people especially significant others. 80% of the students will score at the satisfactory level.

Student will be able to present their life story and apply the concepts and theories they learned in class. 80% of the students will score at the satisfactory level.

Students are placed in small groups and each student will be able to role play the different personality types. 80% of the students will score at the satisfactory level.

GUID 011 New Student Orientation

80% of the students will demonstrate their understanding of the available student resources both on campus and on the Delta College website by taking a quiz and scoring at least 70%.

80% of the students will demonstrate their understanding of associate degree and transfer requirements by taking a quiz and scoring at least 70%.

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GUID 013 Introduction to College & Educational Planning for ESL Students

70% of the students will demonstrate the ability to utilize the college career center to obtain information about a minimum of one career or vocation.

The student will develop a Student Educational Plan (SEP) commensurate with their educational goal.

GUID 014 Introduction to College & Educational Planning for Student Athletes

By developing a Student Education Plan (SEP), 75% of the students will demonstrate his/her ability to identify appropriate prerequisites, general education and specific courses required for Associate Degree or transfer goal as well as be aware of NCAA and CCC/AA regulations. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

70% of the students will demonstrate their ability to choose appropriate student services for his/her academic educational goals. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

GUID 015 Selected Topics in Guidance

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

GUID 017 Introduction to College & Educational Planning for Re-entry Students

Students will learn effective strategies for overcoming these potential barriers while gaining a better understanding of themselves, their career and educational goals.

Students will be able to identify common barriers that are specific to the adult reentry student as they transition into college. Some of these include self-esteem, time and personal resource management, maintaining balance between work, family and school, overcoming self-defeating attitudes and behaviors.

GUID 018A Single Parents as Students: Codependency Issues

80% of the students will be able to diagnose and evaluate codependent symptoms in their own lives.

80% of the students will demonstrate their ability to diagnose and evaluate codependent symptoms in the observable behaviors of other people.

GUID 018B Single Parents as Students: Campus and Community Resources

Students will demonstrate their knowledge of campus and community resources which can assist them with their academic, financial and personal needs. Faculty who teach this course will collaborate and discuss the collective course performance of this outcome.

GUID 018C Single Parents as Students: Stress Reduction

The student will identify, situations, environments and people in his/her own life who trigger his/her stress reaction.
GUID 019 Introduction to College and Educational Planning

70% of the students will demonstrate their ability to choose appropriate student services for his/her academic educational goals.

By developing a Student Education Plan (SEP), 80% of the students will demonstrate his/her ability to identify appropriate prerequisites and general education as well as major specific courses required for certificate, Associate Degree, or transfer goal.

GUID 020 Transition to University Life

80% of students will demonstrate their ability to compare and contrast two universities in the areas of cost, location, majors available, admissions, housing and financial aid related to his/her educational goal.

By developing a Student Education Plan (SEP), 80% of the students will demonstrate their ability to identify the appropriate lower division pre-requisites and general education courses required for the student's educational goal.

GUID 030 Career Self-Assessment

Each students will be introduced to their personality type. They will learn about their personality type and how it relates to other personality types.

Each student will know what occupations match their interests

GUID 031 Career Exploration

Students will be able to compare and contrast several occupational choices.

Each student will acquire the knowledge of how to research information on three occupations.

GUID 032 Career Information Interviewing

Each student will have acquired the knowledge on how to conduct a professional information interview.

Each student will learn how to write a professional thank you letter to their respective information interviewee.

GUID 033 Job Seeking Skills

By completing a cover letter and resume, 70% of the students will demonstrate their ability to identify critical information such as their skills and experience.

Each student will complete a comprehensive resume in hard copy format and in online format.

GUID 034 Extended Activities

Briefly summarize the steps in the career life planning process and identify the types of information you have gathered about yourself, the world of work, education and work experience, and the steps to take towards a successful job search.

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GUID 064 Helping Skills for the Early Childhood Educator

The student will demonstrate effective attending and responding skills.

GUID 075 Selected Topics: Guidance

Will vary by topic course developed.
Given a guidance topic, the student will be able to identify key terms and processes, and develop a strategy for reaching his or her goals.

GUID 080 Success in College

70% of the students will demonstrate their ability to identify skills required to address barriers which interfere with academic success.
70% of the students will demonstrate their ability to identify the three levels of academic probation.

GUID 090 Extended Activities for Non-transfer

The student can identify a career goal.

GUID 100 Pre-Registration Orientation

Given his/her assessment test score, the student will be able to identify the correct reading, math, and composition course that corresponds with his/her assessment level.
Given a set of campus and classroom guidelines, the student will be able to monitor his/her behavior in compliance with campus policy.
Given examples of educational goals that students can pursue in college, the student will be able to identify his/her educational goal.

H ED 001 Health Education

Students will apply health/wellness knowledge for civility and respect for people of diverse cultures, socioeconomic, sexual orientation, disabilities, ideas and viewpoints. Seventy percent of the class will score at a satisfactory level on the wellness worksheet evaluations.
Students will be able to identify physical, emotional, interpersonal, spiritual, intellectual, environment and occupational lifestyle choices to establish short and long term individual goals. Seventy percent of the students will score at a satisfactory level on the Wellness Worksheet Evaluations.
Students will be exposed to the accepted health related medical practices, technology, health care services and current research issues. Seventy percent of students will score at a satisfactory level on assigned article reviews and Final wellness project.
Students will demonstrate the ability to set priorities for family, work, college studies and leisure effectively for their personal life success. Seventy percent of the students will score at the satisfactory level in the Personal Wellness Journal.
Students will investigate personal and family health issues. Seventy percent of students will score at the satisfactory level on the Final Wellness Project.
Students will demonstrate personal responsibility of their own health/wellness with an understanding of the different dimensions and the application of wellness problem solving strategies to achieve improved health and wellness. Seventy percent of students will score at a satisfactory level on the Final Wellness Project.

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H ED 015 Selected Topics: Health Education

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

H ED 030 Community First Aid and Safety

The student will be able to identify the signals of breathing emergencies, including choking, and demonstrate how to provide care according to Red Cross procedures. 70% of the students are expected to score a 70% or higher.

Identify the signals of sudden illness, including poisoning, seizures, and heat- and cold-related emergencies, and describe how to care for them according to Red Cross procedures. 70% of the students are expected to score a 70% or higher.

Student will be able to identify the signals of a possible heart attack and sudden cardiac arrest and describe how to provide care according to Red Cross procedures. 70% of the students are expected to score a 70% or higher.

Students will be able to identify life-threatening bleeding and demonstrate how bleeding can be controlled according to the Red Cross proper procedures. 70% of the students are expected to pass with a score of 70% or higher.

Students will be able to identify life-threatening bleeding and demonstrate how bleeding can be controlled according to the Red Cross proper procedures. 70% of the students are expected to pass with a score of 70% or higher.

The student will be able to explain how to protect themselves and the victim in an emergency. These steps will be covered in questions on the final exam. 70% of the students are expected to score a 70% or higher.

H ED 031 Emergency Response

Students will demonstrate an understanding of the fundamental concepts of emergency response through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score a at the proficient level of this rubric.

H ED 032 Cardiopulmonary Resuscitation (CPR)

Students will demonstrate a basic understanding of the fundamental skills of Cardiopulmonary Resuscitation through a simulated event. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score a at the proficient level of this rubric.

H ED 050H Special Studies: Health Education

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

H S 011 Selected Topics: Health Science

The student will satisfactorily demonstrate the required skills to meet the variable outcome developed for this course.

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H S 011P Psychiatric Technician Licensure Exam Prep

The student will demonstrate preparedness to pass the state exam by meeting the standards of competency delineated by the Board of Vocational Nursing and Psychiatric Technicians.

H S 011X NCLEX-RN® Preparation Program

Participants are prepared to successfully complete the NCLEX Examination the first time.

H S 018 Introduction to Pathophysiology

In the classroom or online venue, the student will demonstrate understanding of the pathophysiology of cancer processes.
In the classroom or online venue, the student will be able to describe the alteration in multiple body systems when shock occurs.

H S 019 Human Development

The student will compare and contrast the basic theories of human development on written exams.

H S 034A Basic Electrocardiograph Reading

The student will be able to recognize common disorders of cardiac rhythms.
The student will demonstrate the systematic method of evaluation of cardiac rhythm strips.
The student will define the principal components of the cardiac conduction system.
The student will describe the sequence of normal electrical conduction of the heart.

H S 036 Medical Terminology and Speech

The student will demonstrate the understanding of application of common medical terms in health care practice 70% of the time.
The student will demonstrate the understanding of prefixes, root words, and suffixes to accurately decode common medical terms 70% of the time.

H S 039 Survey of Health Careers

Students will identify and complete an oral presentation about a selected healthcare career, including educational requirements, licensure or certification, salary, and career mobility.
The student will identify the educational requirements necessary to complete a health care career.
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H S 043 Nursing Synthesis

The student will demonstrate the ability to teach a selected client information to facilitate successful management of their chronic illness.

The student will calculate medications with 90% accuracy.

H S 061 Intravenous Therapy for Health Care Providers

The student will be able to properly initiate and maintain intravenous therapy within the parameters set by institutional policy and procedure manuals, in accordance to the scope of practice identified by the California Department of Healthcare Services.

H S 070 Nurse Assistant Training

70% of the students will demonstrate an understanding of the biological, psychosocial, spiritual, and cultural aspects of client care by achieving at least 70% on a written exam based on a department defined rubric.

70% of the students will identify care and comfort measures for the elderly client and the dying client by achieving at least 70% on a written exam based on a department designed rubric.

70% of the students will use proper body mechanics, and safety and emergency procedures when performing personal care to clients. The student will achieve the basic level on a technical skills test based on a department designed rubric.

70% of the students will perform personal care of clients safely based on client needs. Student will achieve the basic level on a technical skills test based on a department designed rubric.

70% of the students will demonstrate an understanding of state laws, regulations, and responsibilities required of the certified nursing assistant by achieving at least 70% on a written exam based on a department designed rubric.

70% of the students will perform personal care of clients safely based on client needs. The student will demonstrate an understanding of state laws, regulations, and responsibilities required of the certified nursing assistant by achieving at least 70% on a written exam based on a department designed rubric.

H S 071 Home Health Aide

70% of the students will use proper body mechanics, and safety and emergency procedures when performing personal care to clients. The student will achieve the basic level on a technical skills test based on a department defined rubric.

70% of the students will demonstrate an understanding of home health care regulations, roles, and communication by achieving at least 70% on a written exam based on a department designed rubric.

70% of the students will perform personal care of clients safely based on client needs. Student will achieve the basic level on a technical skills test based on a department designed rubric.

70% of the students will demonstrate an understanding of dietary requirements respecting hereditary, environmental and personal resources by achieving at least 70% on a written exam based on a department defined rubric.

70% of the students will describe methods to maintain a clean, safe and healthy environment in the home by achieving at least 70% on a written exam based on a department designed rubric.

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**H S 072 Introduction to Pharmacology for Health Science**

80% of the students will identify ethical, legal, and safe practices in the administration of medications. Students will achieve at least 70% on a written exam of medication administration practices.

80% of students will describe the desired and undesired effects of commonly used medications. Students will achieve at least 70% on a written exam of pharmacological principles based on a department designed rubric.

80% of students will accurately calculate dosages of medications using dimensional analysis and will achieve at least 80% on a written exam of dosage calculation based on a department designed rubric.

**H S 077B Emergency Medical Technician Basic**

The student will define health, well being and stress management in a written examination.

The student will identify and administer the appropriate care for an injured or sick person through a skills examination.

The student will interpret and apply laws, rules and regulations related to legal, medical and ethical responsibilities commonly experienced in the Emergency Medical Service Profession in a written examination.

**H S 078A Paramedic Anatomy and Physiology**

The student will be able to identify and describe the organization of the human body on the cellular, tissue, organ, and organ system levels. Student will achieve at least 80% on an written exam of human body organization based on a department designed rubric.

The student will develop sufficient vocabulary to demonstrate understanding of basic anatomical terminology. Student will achieve at least 80% on an written exam of vocabulary based on a department designed rubric.

The student will be able to define and describe the scope of human anatomy. Student will achieve at least 80% on an exam of human anatomy based on a department designed rubric.

**H S 078B Paramedic Introduction to Emergency Medical Services**

The student will be able to interpret and apply laws, rules, and regulations related to negligence, malpractice, consent and treatment to situations commonly experienced in the EMS profession. Student will achieve at least 80% on an written exam of legal issues based on a department designed rubric.

The student will be able to define health, well being and stress management. Student will achieve at least 80% on an written exam based on a department designed rubric.

The student will identify roles and responsibilities, historical, legal and ethical concerns pertaining to the role of EMT. Student will achieve at least 80% on an written exam of the role of EMT based on a department designed rubric.

**H S 078C Paramedic Cardiology**

The student will use a systematic method to interpret electrocardiogram tracings and identify appropriate interventions pertaining to these interpretations. Student will achieve basic level on a department designed rubric.

The student will analyze and identify appropriate treatment for persons experiencing signs and symptoms of cardiac disease. Student will achieve basic level on a department designed rubric.
Course Learning Outcomes Report

H S 078D Paramedic Pharmacology

The student will identify the side effects, complications, documentation and reassessment of the patient following administration of medications. Student will achieve at least 80% on a written exam of medication administration based on a department designed rubric.

The student will correctly calculate and prepare medications for administration. Student will achieve intermediate level on a department designed rubric.

The student will compare and contrast different routes of medication administration and the therapeutic effects of medications. Student will achieve at least 80% on an written exam of routes of administration and therapeutic effects of medications based on a department designed rubric.

The student will differentiate the classes of medications and their effects on specific patient populations. Student will achieve at least 80% on an written exam of medication classifications based on a department designed rubric.

The student will demonstrate safe and effective handling and administration of medications. Student will achieve intermediate level on a department designed rubric.

H S 078E Advanced Cardiac Life Support

The student will Implement the BLS Healthcare Provider Algorithm, perform 1-rescuer CPR, and operate and AED. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will coordinate team functions while ensuring continuous high-quality CPR, defibrillation, and rhythm assessment. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will Follow the ACLS Suspected Stroke Algorithm, including NINDS time goal. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will demonstrate safe and effective cardioversion. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will follow the ACLS Suspected Stroke Algorithm, including NINDS time goal. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will demonstrate safe and effective cardioversion. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will coordinate team functions while ensuring continuous high-quality CPR, defibrillation, and rhythm assessment. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will Implement the BLS Healthcare Provider Algorithm, perform 1-rescuer CPR, and operate and AED. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

H S 078F Trauma Management

The student will assess the components of a comprehensive trauma system and identify trauma triage criteria. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will categorize patients with special considerations in their assessment and care as it relates to traumatic injuries. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will create a plan to deal with multiple patients and how to triage them into the trauma care system. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will examine the energy distribution and possible injuries of patients involved in traumatic events. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will appraise the kinematics of penetrating injuries. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the value of the role of kinematics as an additional tool for patient assessment. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

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The student will assess the pathophysiology of the head, spine, thorax, and abdomen that results from traumatic forces. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will assess the components of a comprehensive trauma system and identify trauma triage criteria. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will categorize patients with special considerations in their assessment and care as it relates to traumatic injuries. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will assess the pathophysiology of the head, spine, thorax, and abdomen that results from traumatic forces. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will identify the value of the role of kinematics as an additional tool for patient assessment. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will appraise the kinematics of penetrating injuries. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will examine the energy distribution and possible injuries of patients involved in traumatic events. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will create a plan to deal with multiple patients and how to triage them into the trauma care system. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

### H S 078G Special Populations

The student will incorporate cultural awareness and sensitivity towards the aging regarding social, financial and ethical issues facing the elderly. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will formulate an appropriate treatment plan for providing initial care to a newborn in the prehospital setting. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will incorporate cultural awareness and sensitivity towards the aging regarding social, financial and ethical issues facing the elderly. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will identify the effects of commonly prescribed drugs for the elderly and the pediatric client. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will identify the effects of commonly prescribed drugs for the elderly and the pediatric client. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will formulate an appropriate treatment plan for providing initial care to a newborn in the prehospital setting. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

### H S 078H Special Issues and Problems

The student will present a written plan for preparedness for a specific terrorist event. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will define their role in the local agency in response to a terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

The student will present a written plan for preparedness for a specific terrorist event. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will define their role in the local agency in response to a terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the appropriate response to a specific terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the appropriate response to a specific terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric.

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**Course Learning Outcomes Report**

**H S 078I Clinical Medical Specialty I**

Student will analyze and classify client conditions, organize client exam techniques in the clinical setting and evaluate a complete client assessment. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will demonstrate hands on psychomotor skills under the direct supervision of a clinical preceptor (RN), these skills should include, but are not limited to: IV insertion, medication administration, advanced airway procedures, and wound/orthopedic care. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will recognize the need for basic and advanced life support skills, analyze the effectiveness, organize a standard approach and assess for effectiveness/success of each skill and assessment tool. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will differentiate the pathophysiology, formulate treatment plans and assess for client improvement of various emergencies and conditions for the adult and pediatric client. 70% of students who complete this course will achieve basic level on a department designed rubric.

**H S 080 Selected Topics: Health Science**

The student will satisfactorily demonstrate the required skills to meet the variable outcome developed for this course.

**H S 080A Psychiatric Technician Licensure Exam Prep**

The student will demonstrate preparedness to pass the state exam by meeting the standards of competency delineated by the Board of Vocational Nursing and Psychiatric Technicians.

**H S 080C NCLEX-RN Review Program I**

Participants are prepared to successfully complete the NCLEX-RN® Examination.

**H S 080D NCLEX-RN Review Program II**

Participants are prepared to successfully complete the NCLEX-RN® Examination. Participants will pass the NCLEX-RN® Exam and obtain Registered Nurse licensure.

**H S 080E NCLEX-PN Preparation Program**

The student will demonstrate The student will demonstrate preparedness to pass the NCLEX-PN by meeting the standards of competency delineated by the Board of Vocational Nursing and Psychiatric Technicians.

**H S 080F Paramedic Anatomy and Physiology**

The student will be able to define and describe the scope of human anatomy. Student will achieve at least 80% on an exam of human anatomy based on a department designed rubric.

The student will develop sufficient vocabulary to demonstrate understanding of basic anatomical terminology. Student will achieve at least 80% on an written exam of vocabulary based on a department designed rubric.

The student will be able to identify and describe the organization of the human body on the cellular, tissue, organ, and organ system levels. Student will achieve at least 80% on an written exam of human body organization based on a department designed rubric.

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**H S 080G Paramedic Introduction to Emergency Medical Services**

The student will identify roles and responsibilities, historical, legal and ethical concerns pertaining to the role of EMT. Student will achieve at least 80% on a written exam of the role of EMT based on a department designed rubric.

The student will be able to interpret and apply laws, rules, and regulations related to negligence, malpractice, consent and treatment to situations commonly experienced in the EMS profession. Student will achieve at least 80% on an written exam of legal issues based on a department designed rubric.

The student will be able to define health, well being and stress management. Student will achieve at least 80% on an written exam based on a department designed rubric.

**H S 080H Paramedic Cardiology**

The student will analyze and identify appropriate treatment for persons experiencing signs and symptoms of cardiac disease. Student will achieve basic level on a department designed rubric.

The student will use a systematic method to interpret electrocardiogram tracings and identify appropriate interventions pertaining to these interpretations. Student will achieve basic level on a department designed rubric.

**H S 080I Paramedic Pharmacology**

The student will correctly calculate and prepare medications for administration. Student will achieve intermediate level on a department designed rubric.

The student will identify the side effects, complications, documentation and reassessment of the patient following administration of medications. Student will achieve at least 80% on an written exam of medication administration based on a department designed rubric.

The student will compare and contrast different routes of medication administration and the therapeutic effects of medications. Student will achieve at least 80% on an written exam of routes of administration and therapeutic effects of medications based on a department designed rubric.

The student will differentiate the classes of medications and their effects on specific patient populations. Student will achieve at least 80% on an written exam of medication classifications based on a department designed rubric.

The student will demonstrate safe and effective handling and administration of medications. Student will achieve intermediate level on a department designed rubric.

**H S 080J Advanced Cardiac Life Support**

The student will follow the ACLS Suspected Stroke Algorithm, including NINDS time goal. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will demonstrate safe and effective cardioversion. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will coordinate team functions while ensuring continuous high-quality CPR, defibrillation, and rhythm assessment. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will Implement the BLS Healthcare Provider Algorithm, perform 1-rescuer CPR, and operate and AED. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

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Course Learning Outcomes Report

H S 080K Trauma Management

The student will create a plan to deal with multiple patients and how to triage them into the trauma care system. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will categorize patients with special considerations in their assessment and care as it relates to traumatic injuries. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will assess the components of a comprehensive trauma system and identify trauma triage criteria. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will assess the pathophysiology of the head, spine, thorax, and abdomen that results from traumatic forces. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the value of the role of kinematics as an additional tool for patient assessment. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will appraise the kinematics of penetrating injuries. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

The student will examine the energy distribution and possible injuries of patients involved in traumatic events. Student will achieve at least 80% on a written exam based on faculty designed rubric. 70% of students will achieve this outcome.

H S 080L Special Populations

The student will incorporate cultural awareness and sensitivity towards the aging regarding social, financial and ethical issues facing the elderly. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the effects of commonly prescribed drugs for the elderly and the pediatric client. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will formulate an appropriate treatment plan for providing initial care to a newborn in the prehospital setting. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

H S 080M Special Issues and Problems

The student will define their role in the local agency in response to a terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will identify the appropriate response to a specific terrorist threat. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.

The student will present a written plan for preparedness for a specific terrorist event. Student will achieve at least 80% on an written exam of based on faculty designed rubric. 70% of students will achieve this outcome.
Course Learning Outcomes Report

H S 080N Clinical Medical Specialty I

Student will analyze and classify client conditions, organize client exam techniques in the clinical setting and evaluate a complete client assessment. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will demonstrate hands on psychomotor skills under the direct supervision of a clinical preceptor (RN), these skills should include, but are not limited to: IV insertion, medication administration, advanced airway procedures, and wound/orthopedic care. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will recognize the need for basic and advanced life support skills, analyze the effectiveness, organize a standard approach and assess for effectiveness/success of each skill and assessment tool. 70% of students who complete this course will achieve basic level on a department designed rubric.

Student will differentiate the pathophysiology, formulate treatment plans and assess for client improvement of various emergencies and conditions for the adult and pediatric client. 70% of students who complete this course will achieve basic level on a department designed rubric.

H S 080O Clinical Medical Specialty II

Student will recognize the need for basic and advanced life support skills, analyze the effectiveness, organize a standard approach and assess for effectiveness/success of each skill and assessment tool. 70% of students who complete this course will achieve intermediate level on a department designed rubric.

Student will demonstrate hands on psychomotor skills under the direct supervision of a clinical preceptor (RN), these skills should include, but are not limited to: IV insertion, medication administration, advanced airway procedures, and wound/orthopedic care. 70% of students who complete this course will achieve intermediate level on a department designed rubric.

Student will differentiate the pathophysiology, formulate treatment plans and assess for client improvement of various emergencies and conditions for the adult and pediatric client. 70% of students who complete this course will achieve intermediate level on a department designed rubric.

Student will analyze and classify client conditions, organize client exam techniques in the clinical setting and evaluate a complete client assessment. 70% of students who complete this course will achieve intermediate level on a department designed rubric.

H S 080P Paramedic Field Experience I

Student will integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for clients with special needs. Student will achieve basic level on a department designed rubric. Student will achieve at least 80% on an written exam based on a department designed rubric.

Student will integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for an acutely injured client. 70% of students who complete this courses will achieve basic level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for a client with a medical complaint. Student will achieve basic level on a department designed rubric. 70% of students who complete this courses will achieve basic level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will integrate assessment findings with principles of epidemiology and pathophysiology to formulate a field impression and implement a comprehensive treatment/disposition plan for clients with special needs. 70% of students who complete this courses will achieve basic level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

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**H S 080Q Paramedic Field Experience II**

Student will integrate a comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states. 70% of students who complete this course will achieve intermediate level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will integrate and synthesize the multiple determinants of health and clinical care. 70% of students who complete this course will achieve intermediate level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will integrate a comprehensive knowledge of the causes and the pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent arrest. 70% of students who complete this course will achieve intermediate level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will formulate a field impression based on an analysis of comprehensive assessment findings, anatomy, physiology, pathophysiology, and epidemiology. 70% of students who complete this course will achieve intermediate level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will relate assessment findings to underlying pathological and physiological changes in the client's condition. 70% of students who complete this course will achieve intermediate level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

**H S 080R Paramedic Field Experience III**

Student will evaluate the effectiveness of interventions and modify the treatment plan accordingly. 70% of students who complete this course will achieve advanced level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will perform basic and advanced interventions as part of a treatment plan intended to mitigate the emergency, provide symptom relief, and improve the overall health of the client. 70% of students who complete this course will achieve advanced level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will effectively communicate in a manner that is culturally sensitive and intended to improve the client outcome. 70% of students who complete this course will achieve advanced level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will safely and effectively perform all psychomotor skills within the National EMS Scope of Practice Model and State Scope of Practice at the advanced level. 70% of students who complete this course will achieve advanced level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

Student will demonstrate exemplary professional behavior including but not limited to, integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, time management, teamwork/diplomacy, respect, patient advocacy, and careful delivery of service. 70% of students who complete this course will achieve advanced level on a department designed rubric and will achieve at least 80% on a written exam based on a department designed rubric.

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**H S 080T Teaching and Learning for Health Care Professionals**

The student will demonstrate understanding of factors involved in brain-based learning.
In the classroom or online venue, the student will be able to describe an analytic scoring rubric used for grading written assignments that analyze current research.

**H S 081 Emergency Medical Technician 1 Refresher**

The student will interpret and apply laws, rules, and regulations related to legal, medical, and ethical responsibilities commonly experienced in the Emergency Medical Service Profession in a written examination.
The student will identify and administer the appropriate care for an injured or sick person through a skills examination.
The student will define health, well being and stress management in a written examination.

**H S 093V Work Experience: Health Science**

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

**HIST 002A World History to 1600**

The student will document and calculate the influence of global forces and identify their connection to local and national developments. For example, students will study a major historical force (e.g., war, migration, urbanization, religion) and write an essay that describes the influence of the selected global force and how that force continues to influence the contemporary world.
The student will document and reconstruct the impact of the Silk Road on each society along it to explain the interrelationships between societies in terms of mutual (though not necessarily symmetrical) interactions, benefits, and costs. For example, students will study the material, cultural, and biological exchanges that occurred along the Silk Road across Eurasia from 500-1500 CE.
Students will be able to analyze the common assumptions, primary sources, and recent monographs regarding the Crusades and reach conclusions regarding the historical accuracy of various accounts.
Students will develop a historical perspective that will better allow them to understand contemporary issues and problems in the global arena. For example, students may study the historical role of religion as the foundation for both cultural exchange and cultural conflict.

**HIST 002B World History Since 1600**

The student will demonstrate a mastery of historical argumentation by writing a research paper that employs both primary and secondary sources to prove a thesis. For example, students could write a paper that discusses the differences between the major Islamic empires of the 17th and 18th centuries that uses both monographs and sources written by contemporaries.
The student will recognize that history consists of both a verifiable historical record and our interpretation of that record. Instructors could use a paper, exam question(s), quiz(ze)s, and/or in-class debate on a controversial historical issue such as the reasons for U.S. involvement in World War I.
The student will document and calculate the influence of global forces and identifies their connection to local and national developments. For example, students will study a major historical force (e.g., war, migration, urbanization, religion) and write an essay that describes the influence of the selected global force and how that force continues to influence the contemporary world.
The student will be able to analyze the background of current world events and explain how the past informs the present. For example, the instructor could have students choose a relevant modern issue in world history and then present an in-class overview of the historical roots of that issue.

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: The student will document and reconstruct the impact on each society along the Silk Road to explain the interrelationships between societies in terms of mutual (though not necessarily symmetrical) interactions, benefits, and costs. For example, students will study the material, cultural, and biological exchanges that occurred along the Silk Road across Eurasia from 500-1500 CE.

HIST 004A History of Western Civilization

Students will demonstrate a critical understanding of the relationship of the modern West to its ancient Near Eastern sources.

Students will demonstrate their understanding of the many problems that beset the Late Roman Empire.

Students will demonstrate their critical understanding of ancient Greek rationalism.

Students will demonstrate their critical understanding of the limitations medieval religious orthodoxy imposed upon scientific inquiry.

HIST 004B History of Western Civilization

Students will demonstrate detailed knowledge of the relationship between selected works of art and literature (novels, plays, music, poems, paintings, etc.) and the broader cultural, political, social, and economic forces at work in the West.

Students will describe, and demonstrate an understanding of the historical significance of, the scientific method.

Students will demonstrate detailed knowledge of the relationship between Enlightenment thought and modern Western values since 1688.

HIST 006A History of Asian Civilization

Students will analyze the contributions of East Asian cultures and societies to the contemporary world. For example, students could study the impact of Buddhism in the modern world.

Students will draw on historical perspective to evaluate contemporary problems and issues. For example, students will examine the historical experience of Korea to better understand Korean actions and positions in the contemporary world.

Students will recognize and articulate the diversity and complexity of East Asian culture and society by comparing and contrasting historical developments in China, Japan, and Korea from ancient times to the present.

Students will critically analyze and compare political, economic, social, cultural, religious and intellectual institutions, structures, and processes in East Asia from ancient times to the present.

HIST 006B History of South and Southeast Asian Civilization

The student will document and calculate the influence of global forces and identifies their connection to local and national developments. For example, students will study a major historical force (e.g., war, migration, urbanization, religion) and write an essay that describes the influence of the selected global force and how that force continues to influence the contemporary world.

The student will document and reconstruct the impact on each society along the Silk Road to explain the interrelationships between societies in terms of mutual (though not necessarily symmetrical) interactions, benefits, and costs. For example, students will study the material, cultural, and biological exchanges that occurred along the Silk Road across Eurasia from 500-1500 CE.

Students will be able to describe large thematic historical concepts as they pertain to South and Southeast Asian history. For example, students may study the role of cross-cultural trade in the spread of Hinduism and Buddhism.

Students will develop a historical perspective that will better allow them to understand contemporary issues and problems in South and Southeast Asia. For example, students may study the historical roles of Islam and Hinduism as the foundation for current tensions between India and Pakistan.
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**HIST 006C History of the Middle East**

Students will be able to recognize, identify, and articulate the varied and often conflicting interpretations in Middle East history.

Students will analyze the contributions of Middle Eastern cultures and societies to the contemporary world.

Students will describe the important historical consequences of class division, imperialism, violence, and gender as they relate to the Middle East.

Students will acquire a number of interpretive perspectives on Middle Eastern history in order to analyze critically political, social, economic, and cultural events past and present.

**HIST 007 History Through Film**

Students will analyze how and why portrayals of women have changed over time in American films.

Through reading assigned material, viewing selected films, and participating in classroom activities, students will understand the significance of major historical events and developments for American culture and society, and how these events have influenced the content of films.

Students will learn to analyze how selected films as historical documents that help us understand how views about race and race relations have varied in the United States since Reconstruction.

**HIST 009 Politics and History of the Constitution**

- describe the power of judicial review and its relevance to a modern constitutional controversy
- describe the tension between executive powers and legislative powers in the U.S. Constitution's system of separate powers and checks and balances
- identify and explain key constitutional provisions or amendments

**HIST 015 Selected Topics: History**

Will vary by topic course developed.

Will vary by topic course developed.

**HIST 017A History of the United States**

The student will appraise the impact of race, sex, and class on Americans' experiences during the time period covered by the course by using in-class oral presentations or discussions on race, gender, or labor history. For example, students could draw on assigned readings and lectures to discuss the reasons that the colonial experience was different for women than it was for men, or how African-Americans contributed to abolitionist campaigns.

The student will demonstrate a mastery of historical argumentation, by writing a research paper that employs both primary and secondary sources to prove a thesis. For example, students could write a paper about the political impact of the debate over slavery in the mid-nineteenth century that draws on both monographs and sources written by the participants in that debate.

The student will recognize that history consists of both a verifiable historical record and our interpretation of that record. Instructors could use a paper, exam question(s), and/or in-class debate on a controversial historical issue.

The student will distinguish the qualities that make the American governmental experience unique, including an emphasis on written laws and constitutions in either a test question or brief take-home paper.

The student will be able to evaluate a primary source in the context of the place and time in which it was produced by writing a primary source analysis paper. For example, the instructor can assign Thomas Paine's Common Sense and then have students write a paper explaining how it contributed to the outbreak of the American Revolution.

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HIST 017B History of the United States

The student will demonstrate a mastery of historical argumentation, employing different kinds of evidence to prove a thesis. For example, students could write a research paper that employs both primary and secondary sources. For example, students could develop a thesis and write a paper discussing an important social reform movement of the 20th century.

The student will be able to evaluate a primary source in the context of the place and time in which it was produced. For example, the instructor may assign a primary source paper asking students to evaluate the messages in World War I propaganda.

The student will distinguish the qualities that make the American governmental experience unique, including an emphasis on written laws and constitutions. For example, the instructor assign a test question or brief-take-home paper having students outline the impact of the 13th, 14th and 15th amendments after the Civil War.

The student will appraise the impact of race, sex, and class on Americans' experiences during the time period covered by the course by using in-class presentation or discussions on race, gender, or labor history. For example, could draw on class resources to present the arguments of different African-American leaders of the turn of the 20th century about the future of their community.

The student will recognize that history consists of both a verifiable historical record and our interpretation of that record. For example, instructor could assign a paper, exam question, and/or in-class debate on a controversial historical issue (for example, "Why did the U.S. use atomic weapons against the Japanese?")

HIST 027 Women in History

DEFINE THE FOUR CHARACTERISTICS OF TRUE WOMANHOOD AND DISCUSS THE IMPACT OF THIS GENDER IDEAL OVER THE COURSE OF THE 19TH AND 20TH CENTURIES.

DETERMINE THE MAIN ARGUMENTS IN THREE SECONDARY ARTICLES ON A TOPIC IN WOMEN'S HISTORY.

CHART THE PROGRESS OF THE 19TH AMENDMENT AT THE FEDERAL AND STATE LEVEL UNTIL FINAL RATIFICATION.

HIST 030A African-American History to 1877

Students will analyze the impact of African-American contributions in the American military including the Revolutionary War, War of 1812, Mexican-American War and Civil War.

Analyze the development of the slavery system in the United States in the colonial period, tracing its origins in the trans-Atlantic slave trade.

HIST 030B African-American History Since 1877

Compare and contrast the political activism of African-American groups and communities before, during and after World War II, including union and civil rights organizations.

Analyze the impact of African-American contributions to American culture in the 1920s including evaluation of the impact of the Harlem Renaissance.
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HIST 031 Mexican-American History

Analyze the cultural effects of twentieth-century Americanization programs on Mexican immigrants and Mexican-American citizens of the United States.

Analyze the era of industrialization and global immigration in United States history with emphasis on its impact on Americans of Mexican descent.

Evaluate the impact of the U.S. conquest of northern Mexican America on the economic, legal, and political status of American Indians and Mexicans in the mid- to late-nineteenth century.

Identify and describe the changes to American society that took place from the Great Depression through the 1950s in the family, gender roles, and the expectations of ethnic and racial minorities including Chicanos.

Identify and explain why changes occurred in U.S. domestic politics, foreign policy, and American society from the Vietnam War to the present and analyze the specific impact these shifts had on Mexican-Americans.

Evaluate and differentiate between English and Spanish colonial economic, political and social institutions in North American history.

Identify and analyze the goals of the Chicano civil rights movement of the 1960s and 1970s, including an understanding of the long-term social, political and cultural changes the movement introduced.

Explain various factors involved in the Spanish conquest, including motivations, the process of conquest, and the repercussions of Spanish involvement in the Americas on native peoples.

Identify and assess the impact of American racial attitudes on United States society during the eighteenth, nineteenth and early twentieth centuries with emphasis on the Mexican American experience.

HIST 034 Asian Pacific American History

Compare and contrast the social organization, cultural practices, and political activism of Asian American groups and communities before and after World War II, including the Gentlemen's Agreement and university admissions, union organizing and civil rights organizing, segregation and multiculturalism.

Describe the political, economic, and social contributions of the Asian Americans.

Compare and contrast the historical experiences of Asian Americans before World War II and after World War II, including the Chinese Exclusion Act and the Immigration Act of 1965, the Spanish American War and the Vietnam War, and Angel Island Immigration Center and refugee camps.

Identify the origins and sources of Asian migration to Hawaii and the United States in the 19th and 20th centuries.

HIST 037 California History

The student will illustrate and appraise how history consists of both a verifiable factual record and the interpretation of that record. To achieve this outcome the instructor may assign, a paper, a debate, or series of essay type exam questions on a historically controversial issue such as the treatment of Native American in California by the Spanish and subsequent dominant groups.

Each student will demonstrate how to critically evaluate and interpret a primary document or other primary source, which is directly connected to California History. For example the subject document could be a Native American artifact, a Mexican land grant, Gold Rush era diaries, or Executive Order 9066. And then synthesize evidence taken from the primary source in support of a historical position.

The student will be able to articulate the unique qualities that distinguish California as a state and as a cultural and social region of the United States. For example, the instructor could assign a brief essay contrasting the issue of race between the United States in general and in California in particular. Or the instructor could give an essay exam which allows the students to contrast the development of government in California with the United States.
Course Learning Outcomes Report

HIST 050H Special Studies: History

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student?s abilities and knowledge.

HORT 001 Fundamentals of Horticulture

Compare and describe plant growth characteristics of horticulture plants
Identify different leaf terms.
Understand the different Horticulture career choices

HORT 002 Identification of Fall Plants

From an identified plant the student will be able to list growth requirements.
Students will be able to identify plants from selected leaf samples.

HORT 003 Identification of Spring Plants

The student will identify select plants from leaf samples
From an identified plant the student will be able to list growth requirements.

HORT 004 History of Garden Design

70% of the students will demonstrate critical thinking by writing a comparison of two different garden styles from different parts of the world.
The student will demonstrate there knowledge by identify the differences between the Italian and French gardens and write a comparison of the two garden styles

HORT 005 Introduction to Plant Pests and Diseases

The student will be able to explain the information on a pesticide label.
The student will be able to identify and explain the use pesticide safety equipment.
The student will be able to identify at least 15 plant pest.

HORT 010 Greenhouse Production

90% of the students will satisfactorily demonstrate their skills in using the EC/pH meter equipment to monitor the crop soil conditions.
70% of the students will satisfactorily demonstrate their understanding of the factors needed to raise a greenhouse crop by raising a selected crop.

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HORT 012 Plant Propagation

70% of the students will demonstrate two different methods of plant propagation. The instructor will evaluate the methods of propagation based on technique used, condition of materials and sanitation, with 70% of the students scoring acceptable on the cutting grading matrix.

70% of the student will demonstrate the correct method of planting seeds, in the greenhouse, in growing flats. The student will be evaluated on correct planting methods and sanitation as observed by the instructor. 70% will score acceptable on the seeding method matrix.

HORT 015 Selected Topics: Ornamental Horticulture

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

HORT 020 Landscape Maintenance

90% of the students will satisfactorily demonstrate their understanding of small engine landscape equipment safety by performing a pre-start safety inspection. The instructor will evaluate the student during the safety inspection with 90% scoring acceptable on the safety matrix.

70% of the students will satisfactorily demonstrate a method of fertilizer application in the landscape. Using the fertilizer application matrix the instructor will evaluate the student and there methods with 70% of the students scoring acceptable.

HORT 021 Landscape Construction

80% of the students will satisfactorily demonstrate their understanding of the factors needed to install a landscape construction project by designing and installing an instructor approved project. 75% will score acceptable on the construction check list.

90% of the students will satisfactorily demonstrate their understanding of landscape construction safety by completing a unit on construction safety. The student with pass a safety test scoring minimum of 95%.

HORT 022 Turf Practices

Students will satisfactorily demonstrate their knowledge of turfgrass groups by developing comparison chart of the different grass genus.

HORT 023 Landscape Irrigation and Drainage

70% of the students will satisfactorily demonstrate their knowledge of irrigation sprinkler parts by naming them.

70% of the students will satisfactorily demonstrate their knowledge of irrigation design designing a correct system when given the site information.
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HORT 024 Principles of Landscape Design
Students will layout, based on industry standards, a property on drafting paper. This will include all elements from the drawing checklist. Students will satisfactorily demonstrate their understanding of a landscape site analysis. They will complete the site analysis checklist.

HORT 025 Computer Landscape Design
Describe the process in planning a landscape drawing.

HORT 026 Introduction to Arboriculture
70% of the students will demonstrate two different methods of pruning a tree and will score 80% on the Pruning Checklist. 70% of the students will identify the different pruning tools and explain the safety procedures of using these tools. Students will score at least 80% on the Tool Test.

HORT 031A Floral Arrangement I
The student will be able to prepare flowers for proper storage.

HORT 050H Special Studies: Ornamental Horticulture
The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

HORT 069V Internship: Ornamental Horticulture
The student will develop 5 course goals and objectives.

HORT 071 Xeriscaping
Outcome: The student will be able to develop a list of xeriscape plants.

HORT 072 House Plants and Interior Landscaping
70% of the students will satisfactorily demonstrate their knowledge of different interior plants by identifying 5 different interior plants. 70% of the students will satisfactorily demonstrate their understanding of lighting interior plants and the effect on plants.

HORT 074 Sustainable Landscaping
70% of the student will demonstrate his/her understanding of the importance of a sustainable landscape by researching and reporting on current sustainable landscape trends. Student's report must cover 7 out of 10 items on the Sustainable Landscape Overview Evaluation. 70% of the student will demonstrate his/her understanding of the impacts of greenwaste in the landscape by developing a plan to reduce the greenwaste in a landscape. Student must show a 25% reduction in greenwaste.
Course Learning Outcomes Report

HORT 096V Work Experience: Ornamental Horticulture

The student will develop 5 course goals and objectives.

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

HUM 003 Autobiography of Civilization

Students will trace contemporary features of areas within the humanities to their historical and cultural roots on tests and quizzes based upon readings and lectures.

Students will identify historical roots of the humanities through the arts in a written report on contemporary performance in the arts (e.g. plays, concerts, etc.).

Students will associate certain forms within literature, art, music, and architecture with certain time periods in a written book report.

HUM 004 Introduction to Linguistics

Students will demonstrate an appreciation and an understanding of language diversity, locally and worldwide. Students will know the approximate number of living human languages, and will be familiar with the issues surrounding language change and language death.

Students will define the main structural components of human language and identify and evaluate examples of each.

Students will demonstrate an understanding of the social, cultural and political aspects of language use and human communication.

HUM 015 Selected Topics: Humanities

Will vary by topic course developed.

HUM 019 Selected Topics: Study and Travel

Will vary by topic course developed.

HUM 019E Selected Topics: Chinese Culture and Information Literacy-Travel in China

Identify main regions in China and describe the cultural traditions and gastronomic specialties of regions visited.

Identify 3 most popular research tools for students in a Chinese college or university library and demonstrate the ability of utilizing the research tools for research projects.

HUM 050H Special Studies: Humanities

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student?'s abilities and knowledge.
HVACR 070A Refrigeration and Air Conditioning

The student will correctly use standard equipment to recover refrigerant from a refrigeration unit found in the classroom. The student will correctly perform at least 4 out of 5 tasks found on the refrigerant recovery rubric. 80 percent of the students will successfully complete this task.

The student will correctly read and adjust the superheat and sub-cooling of the refrigerant found in an Air Conditioning system. The student will correctly perform at least 4 out of 5 tasks found on the refrigerant recovery rubric. 80 percent of the students will successfully complete this task.

The student will correctly use standard equipment to install a split-system residential air conditioning system. The student will correctly perform at least 4 out of 5 tasks found on the refrigerant recovery rubric. 80 percent of the students will successfully complete this task.

HVACR 070B Intermediate Refrigeration

The student will install an actual residential/commercial system located in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the grading rubric. 80 percent of the students will successfully complete this task.

The student will operate the Chiller. Including: starting, stopping, taking readings, and troubleshooting. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

The student will install and operate a refrigeration pump-down system which is found in the classroom. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

HVACR 070C Advanced Refrigeration

The student will install, charge, and troubleshoot residential Heat-Pump systems to Industry Standard by following manufacturer specifications. The student will be evaluated by instructor's direct observation and written report in compliance with the department designed rubric. Students must complete this activity with a least 70% accuracy. 70% of students will achieve this outcome.

The student will evaluate the overall energy efficiency of residential Air Conditioning systems found in the classroom using manufacturers charging data. This activity must be completed with 100% accuracy. 70% of students will achieve this outcome.

The student will operate and troubleshoot problems in a multi-evaporator refrigeration system found in the classroom using manufacturers instructions. This will be evaluated using a department designed rubric based on the multi-evaporator check sheet. Students must complete this activity with a least 70% accuracy. 70% of students will achieve this outcome.

HVACR 071A Air Conditioning Components and Circuits

The student will successfully wire residential low voltage thermostat circuits found in residential HVAC units found in the classroom. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

The student will calculate amps, volt, wattage and resistance using Ohm's Law. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

The student will successfully troubleshoot refrigeration problems found in residential HVAC units found in the classroom. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

The student will successfully wire residential high voltage circuits found in residential HVAC units found in the classroom. The student will correctly diagnose at least 4 out of 5 problems found on the grading rubric. 80 percent of the students will successfully complete this task.

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HVACR 071B Air Conditioning Troubleshooting

The student will perform maintenance on residential HVAC units found in the classroom and successfully complete at least 4 out of the 5 tasks found on the grading rubric. At least 80 percent of the students will successfully complete at least 4 out of 5 tasks found on the HVAC Residential Maintenance grading rubric.

The student will perform install all necessary wiring to a package HVAC unit found in the classroom and successfully complete at least 4 out of the 5 tasks found on the grading rubric. At least 80 percent of the students will successfully complete at least 4 out of 5 tasks found on the HVAC Residential Maintenance grading rubric.

HVACR 071C Air Conditioning Systems and Heat Pumps

The student will operate and maintain a split air-cooled chiller systems found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the air-cooled chiller grading rubric. 80 percent of the students will successfully complete this task.

The student will troubleshoot electrical and mechanical problems in an Air-Cooled chiller system found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the air-cooled chiller grading rubric. 80 percent of the students will successfully complete this task.

The student will troubleshoot electrical problems in residential heat pump systems found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the residential heat pump grading rubric. 80 percent of the students will successfully complete this task.

HVACR 071D Commercial Air Conditioning Design and Operation

The student will demonstrate principles of water treatment in closed and open loop water systems found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the water treatment grading rubric. 80 percent of the students will successfully complete this task.

The student will demonstrate their knowledge of the theory and implementation of residential heat and cooling load calculations. The student will correctly complete at least 4 out of 5 tasks found on the load calculation grading rubric. 80 percent of the students will successfully complete this task.

The student will use charging techniques for high efficiency HVAC equipment found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the high efficiency charging grading rubric. 80 percent of the students will successfully complete this task.

HVACR 072A Intro to Residential Gas Heating

Student will analyze combustion gasses through the use of a combustion analyzer found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the combustion grading rubric. 80 percent of the students will successfully complete this task.

Students will adjust fuel/air mixture to obtain proper combustion on residential/commercial furnaces found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the combustion grading rubric. 80 percent of the students will successfully complete this task.
HVACR 072B Commercial Gas Heating Devices

The student will identify multiple parts and operate a commercial gas furnace trainer found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the commercial gas furnace trainer rubric. 80 percent of the students will successfully complete this task.

The student will design the water piping circuits in a commercial chiller system found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the chilled water piping rubric. 80 percent of the students will successfully complete this task.

The student will calculate airflow using mathematical formulas and test equipment characteristics for gas and electric heating. The student will correctly complete at least 4 out of 5 tasks found on the airflow rubric. 80 percent of the students will successfully complete this task.

HVACR 072C Gas Heating Controls

Students will perform preventative maintenance on commercial chiller systems. The student will correctly complete at least 4 out of 5 tasks found on the commercial chiller maintenance rubric. 80 percent of the students will successfully complete this task.

Students will adjust the various safety controls used in commercial chiller systems found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the commercial chiller controls rubric. 80 percent of the students will successfully complete this task.

Students will adjust the refrigerant charge to obtain peak efficiency in a commercial Air-Cooled Chiller system found in the classroom. The student will correctly complete at least 4 out of 5 tasks found on the Air-Cooled Chiller efficiency rubric. 80 percent of the students will successfully complete this task.

ID 002 Introduction to Interior Design

Students will be able to analyze the importance of the elements and principles of design as used in interior design.

Students will be able to distinguish between a variety of materials used in interior design by their end use, performance and care.

Students will demonstrate and understanding of the physical and psychological affects of color in interior design.

ID 003 Beginning Interior Design Studio

Students will draft floor plans for interior design in eighth-inch and quarter-inch scale.

ID 006 Textiles

Students will identify those fibers characterized as natural fibers and those as man-made, ad the specific qualities of each that are most used in the fashion and interiors industries.

Students will demonstrate and understanding of the various fabric weaves used in garment and interior design fabric construction.
**Course Learning Outcomes Report**

**ID 008 History of Interior Design & Furniture**

Student will be able to define specific terminology used to define styles of interior architecture and furnishings through the ages.

Student will be able to identify interior architectural elements and furnishing from a variety of periods in history.

Student will be able to identify the major furniture designers of a variety of periods.

Student will show how historical design has influenced present-day interior architecture, design and furnishings.

**ID 010 Residential Interior Design**

Given a specific design problem, a space and a client profile, present a solution that is both financially sound and suitable to the needs of the client within the guidelines of the problem.

**ID 011 Commercial Interior Design**

Student will design a commercial interior space to specific criteria.

**ID 013 Specifications and Professional Practices**

The student will be able to develop an interior design business concept.

The student will be able to calculate fees that are both fair and profitable.

Student should know how to structure a contract and prevent legal problems.

**ID 018 Consumer Behavior in Fashion and Interiors**

Students will identify the factors that influence the purchase of fashion goods within specific consumer markets.

Students will be able to identify the patterns of behavior of consumers in the fashion environment.

**ID 019 Retailing Fashion and Interiors**

Students will demonstrate awareness of current and future developments and challenges faced by fashion retail professionals within international retailing companies.

Students will demonstrate a deep understanding of the strategic nature of marketing within retailing businesses for fashion and interior products.

**ID 021 Trend Forecasting for Fashion & Interiors**

Using information from the text and class discussion, research one particular current cultural influence on current trends in either fashion or interior design. Find pictures of trends that illustrate the cultural influence. Create a storyboard demonstrating the influence of the specific cultural factor chosen on current fashion or interior design.

Using the information from the class discussion on demographic and economic trends, predict specific fashion or interior trends for American consumers in current and future markets.

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ID 030 Interior Design Studio

Student will demonstrate drafting techniques used in the industry.
Student will demonstrate presentation techniques to industry standards.

ID 050H Special Studies: Interior Design

Will vary by each specialized topics.
The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student?d abilities and knowledge.

ID 056 Internship and Portfolio Development for Fashion & Interiors

Student will be able to develop effective and contemporary portfolio to be used in interview for career placement.
Student will be able to develop effective and contemporary resume for career placement.
Student will be able to outline required skills for placement in the career of his or her choice.

INDUS 015 Selected Topics: Industrial Technology

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

INDUS 020 Industrial Safety and Health

Student identifies and corrects ten safety violations in a college shop.
Student identifies a potential work site hazard and develops a safety plan to mitigate the hazard.

INDUS 031 Industrial Hydraulics

Identify and select the proper size fluid power conduits.

INDUS 035 Mobile Hydraulics

The student will gain the skill necessary to properly set system relief valves.

INDUS 037 Industrial Pneumatics

Demonstrate the adjustment of a pneumatic pressure regulator

INDUS 041 Instrumentation and Process Control

Calibrate a pressure transducer.
Course Learning Outcomes Report

INDUS 045 Industrial Technology

The student will be able to differentiate between Newton's first, second and third laws of motion.

INDUS 050H Special Studies: Industrial Technology

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

INDUS 069V Internship: Industrial Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

INDUS 075 Selected Topics: Industrial Technology

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

INDUS 094 Industrial Mathematics

The student will be able to calculate the length of the hypotenuse of a right triangle when given the length of the two other sides of the right triangle.

ITAL 001 Elementary Italian

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

ITAL 002 Elementary Italian

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

ITAL 003 Intermediate Italian

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.
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ITAL 004 Intermediate Italian

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

ITAL 050H Special Studies: Italian

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student?'s abilities and knowledge.

The student will demonstrate advanced skills with the language and/or culture and/or literature of Italian-speakers. The student will develop and demonstrate research skills appropriate to the topic selected. The student will analyze and examine the selected topic in depth, showing critical thinking skills.

ITAL 075 Selected Topics: Italian

Will vary by topic course developed.

Students will demonstrate linguistic skills and/ or cultural understanding related to the Italian language and the culture of Italian-speakers.

JAPAN 001 Elementary Japanese

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

JAPAN 002 Elementary Japanese

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

JAPAN 003 Intermediate Japanese

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

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**JAPAN 004 Intermediate Japanese**

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

**JAPAN 038D Special Assignment: Writing**

Students will be able to demonstrate extended syntactical structures, a firmer knowledge of the grammar of the language, and active vocabulary in the language; students will recognize and write in Japanese using hiragana, katakana, and about 150 most commonly used kanji in the Japanese language.

**JAPAN 050H Special Studies: Japanese**

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

**JAPAN 075 Selected Topics: Japanese**

Will vary by topic course developed.

**LIBRY 001 Library Information Literacy**

Given a research topic, students will critically analyze, evaluate, and organize the information sources for a research paper.

Given a research assignment, students will find and locate books, periodicals, audiovisual materials, and other types of resources on the subject from the library's print and online collections as well as from the Internet.

Given a research topic, students will identify keywords and develop a research strategy.

**LIBRY 002 Advanced Library Information Literacy**

Given a research topic, students will identify Web search engine(s) and appropriate search options to retrieve and critically analyze Internet sources.

Given a legal research topic, students will retrieve online and print law reference sources from the college library's legal research tools as well as from the Internet.

Having identified a career goal, students will retrieve career information from both online and print career research tools.

Having selected a research topic, students will identify appropriate research tools and retrieve, organize, and critically assess online and print information for a research paper. The students will also develop an analytical resource guide on the chosen topic, using one of the major styles of writing.

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LIBRY 015 Selected Topics: Information Literacy

Having identified a research topic, the student will be able to use appropriate research tools to search, retrieve, evaluate, and cite information resources for a research paper.

LS 072 Self-Advocacy Strategies and Disability Management

In a written report, the student presents a profile of his/her disability in relation to learning strengths and learning styles and includes appropriate measures and resources to manage the disability.

The student analyzes a scenario for legal rights and responsibilities and submits a written report.

LS 076 Special Topics in Learning Skills

Will vary by topic course developed.

LS 077 Introduction to Computers

Student will be able demonstrate the ability to open, create, save, and print a document using a word processing program.

Student will demonstrate the ability to revise a document making font, margin, and alignment changes.

Explain all major parts and terminology related to computers.

Student will be able to revise a document requiring tasks to insert, select, cut, copy, and paste text.

Given a specific task using the computer, the student will correctly and efficiently perform that task.

Access the Internet using various search engines for research purposes.

LS 078 Understanding Learning Differences

Student will create a learning portfolio identifying learning style, strengths, weaknesses, and compensatory strategies.

Communicate with faculty members regarding academic challenges.

Demonstrate understanding of learning differences, methods of retention, and output of knowledge.

LS 090A Beginning Adapted Keyboarding

Given a specific beginning task, the student uses appropriate access technology to navigate computer programs and the internet.

LS 090B Intermediate Adapted Keyboarding

Given a specific intermediate task the student will use appropriate access technology to navigate computer programs and the internet.

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**LS 090C Advanced Adapted Keyboarding**

Given a specific advanced task the student will use appropriate access technology to navigate computer programs and the internet.

**LS 092A Beginning Word Processing with a Screen Reader Application**

Given a specific beginning task, the student will use appropriate access technology to navigate the Windows environment.

**LS 092B Intermediate Word Processing with Screen Reader Application**

Given a specific intermediate task, the student uses appropriate access technology to navigate computer programs and the internet.

**LS 173 Memory and Thinking Strategies**

The student creates a graphic organizer demonstrating the ability to insert information in an organized format.

Students will select and apply memory strategies such as peg words and mapping to identify and understand key concepts.

The student will create a mnemonic strategy to retain information.

**LS 177 Introduction to Computers**

Access the Internet using various search engines for research purposes.

Explain all major parts and terminology related to computers.

Given a specific task using the computer, the student will correctly and efficiently perform that task.

Student will be able demonstrate the ability to open, create, save, and print a document using a word processing program.

Student will demonstrate the ability to revise a document making font, margin, and alignment changes.

Student will be able to revise a document requiring tasks to insert, select, cut, copy, and paste text.

**LS 190A Beginning Adapted Keyboarding**

Given a specific beginning task, the student uses appropriate access technology to navigate computer programs and the internet.

**LS 190B Intermediate Adapted Keyboarding**

Given a specific intermediate task, the student uses appropriate access technology to navigate computer programs and the internet.
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LS 190C Advanced Adapted Keyboarding

Given a specific advanced task, the student uses appropriate access technology to navigate computer programs and the internet.

LS 192A Beginning Word Processing with a Screen Reader Application

Given a specific beginning screen reader task, the student uses appropriate access technology to navigate computer programs and the internet.

LS 192B Intermediate Word Processing with Screen Reader Application

Given a specific advanced screen reader task, the student uses appropriate access technology to navigate computer programs and the internet.

LS 196A Screen Reader Application

Outcome: Given the teacher prepared assignments that require changes in basic screen reader application functions, the student will correctly identify and use the basic functions of the screen reader to access electronic text.
Outcome: Using the electronic text prepared novels, textbooks, and articles, the student summarizes a minimum of two fiction books and three non-fiction articles read using a screen reader.
Outcome: The student completes three written word processing assignments editing written text while using a screen reader.

LS 196B Advanced Screen Reader Application

Outcome: The student reads diverse Web based reading materials using a screen reader Assessment: The student will be evaluated using an instructor developed rubric.
Outcome: Use a screen reader to read textbook reading assignments.
Outcome: Use a screen reader with a word processor to complete assignments.
Outcome: The student accesses the screen reader to read a textbook reading assignment.

MATH 001 Calculus

Using differential calculus, students will be able to analyze real world problems such as related rates or optimization. Student will analyze the behavior of a function using methods of differentiation. Students will demonstrate the basic principles of integration. Student will demonstrate the ability to use the various techniques required to compute the derivative of explicit and implicit functions.

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MATH 002 Calculus II

Student will be able to use Calculus skills to solve practical problems involving areas, volumes, work, and fluid force. Student will be able to use integration to compute real world volume problems.

MATH 003 Vector Calculus

Students will analyze the behavior of a function of several variables. Student will analyze physical phenomenon by applying the concepts of vectors and the related properties.

MATH 004 Differential Equations

Upon successful completion of the course, the student will be able to solve a higher order non-homogeneous linear differential equation with constant coefficients by employing the method of Laplace transforms. Upon successful completion of the course, the student will be able to find the general solution of a first order linear differential equation. Upon successful completion of the course, the student will be able to generate the slope-field of a first order differential equation by using a computer algebra system. Upon successful completion of the course, the student will be able to model real world phenomena involving rates of change by writing an appropriate initial value problem. Upon successful completion of the course, the student will be able to find a general power series solution of a higher order homogeneous linear differential equation. Upon successful completion of the course, the student will be able to find the general solution of a higher order linear differential equation with constant coefficients.

MATH 005 Linear Algebra

Using the properties of Vector Spaces, students will analyze a collection of vectors and determine whether the collection is a spanning set or a basis for a given Vector Space. Student will use properties of matrices in applications relating to business or science. Student will use the properties and structure of matrices to analyze linear systems.

MATH 010 Introduction to Contemporary Mathematics

Upon successful completion of this course the student will be able to use mathematics to understand and solve problems of the type typically encountered by a person living in our society.

MATH 012 Introduction to Probability and Statistics

The student will make an appropriate conclusion for a hypothesis test on homework, quizzes and examinations. The student will be able to find probability using the normal distribution on homework, quizzes and exams. The student will be able to find the mean of a set of data on homework, quizzes and examinations.
Course Learning Outcomes Report

MATH 013 Survey of Calculus

The student will analyze the behavior of a function with respects to extrema, asymptotes and inflection points.
The student will model a real world situation and use derivatives to compute information such as rates of change, related rates and marginal change.

MATH 017A Concepts and Structures of Mathematics

The student will understand and be able to explain the development of whole number addition from single digit modeling through multi-digit algorithms.
The student will be able to solve an elementary-school appropriate application problem in multiple ways to make it accessible to learners of different types an at different levels.
The student will be able to solve application problems involving percentages.
The student will be able to show how to arrive at the solution to an arithmetic problem via an illustrative model (possibly accompanied by written explanations).
The student will be able to understand and utilize abstract set theory notation and facts.

MATH 017B Concepts and Structures of Mathematics

The student will be able to compute theoretical probability of an event using elementary counting techniques and/or probability theorems.
The student will be able to compute the surface area and/or volume of a 3-D figure.
The student will be able to take measurements to a specified level of accuracy (i.e. measuring length the nearest 1/4 inch) using common measurement tools.
The student will exhibit knowledge of and a high level of competency with the mathematics content covered in a typical K-5 curriculum.
The student will be able to organize and/or summarize raw data using a specified statistical tool.

MATH 020 Finite Mathematics

Upon successful completion of this course, the student will be able to analyze an application problem and choose an appropriate mathematical model (from those covered in this course) to solve the problem.

MATH 022 Discrete Mathematics

Upon successful completion of the course, the student will create simple truth tables for Boolean expressions.

MATH 032 Math/Science Learning Center Tutor Training

Upon successful completion of this course, the student will be able to provide an educated self-assessment of his/her own preferred learning style and describe how it has affected his/her college experience.

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Course Learning Outcomes Report

MATH 032G Applied Mathematics Program Tutor Training

Student-tutors will be able to sequentially list the order of operation skills and their respective steps.
Student-tutors will be able to sequentially list the order in which the basic skills are instructed in the Applied Math Program.

MATH 038A Precalculus I

Students will demonstrate the skills necessary to analyze polynomial functions which arise as part of real life application problems.
Student should be able to find the zeroes of a polynomial function and graph it.
Students will understand the concept of functions and be able to manipulate and analyze polynomial, exponential and logarithmic functions.

MATH 038B Precalculus II

Find all solutions to a trigonometric equation.
Students will understand the concept of functions and be able to manipulate and analyze trigonometric functions.
Students will use systems of equations to analyze problems arising in the physical sciences.

MATH 039 Precalculus

Students will understand the concept of functions and be able to manipulate and analyze polynomial, trigonometric, exponential and logarithmic functions.
Students will demonstrate the skills necessary to analyze polynomial functions which arise as part of real life application problems.
Students will use systems of equations to analyze problems arising in the physical sciences.

MATH 073 Applied Mathematics Laboratory

Students will be able to correctly solve two and three digit division problems by appropriately selecting and using each of the five division estimation systems.

MATH 074A Applied Mathematics: Whole Number Computational Skills

Students will be able to demonstrate the correct sequence for order of operations.

MATH 074B Applied Mathematics: Word Problems

Students will be able to analyze a word problem and differentiate between solving for a total or a part.

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Course Learning Outcomes Report

MATH 074C Applied Mathematics: Fractions

students will be able to correctly simplify all types of fractions: proper, improper and mixed.

MATH 074D Applied Mathematics: Decimals and Percents

Students will be able to analyze, correctly convert, and solve mixed decimal and fraction proportion problems.

MATH 075 Selected Topics: Mathematics

Will vary by topic course developed.

MATH 075B Mathematics Preparation for College

6. The student will be able to understand the basic language and notation of a function.
3. The student will be able to solve linear and quadratic equations and linear inequalities.
5. The student will be able to simplify expressions and solve equations containing rational exponents.
The student will be able to solve systems of linear equations.
2. The student will be able to apply the laws of exponents and perform operations using polynomials.
4. The student will be able to simplify expressions and solve equations containing rational expressions.

MATH 075C Seminar for Perspective Single Subject Math & Science Teachers

The student will understand the pathways to a single subject credential in math or science in California.
The student will reflect on his/her interest in and appointed for a career as a high school math and/or science teacher.
The student will develop an understanding of the high school classroom/lab setting and the job of a high school teacher
beyond what he/she gained from his/her time in high school.
The student will understand the California State Standards for math and science.

MATH 076 Review of Arithmetic

Students will demonstrate computational skills with whole numbers. Students will demonstrate their whole number
skills when they complete homework assignments and exams.
Students will apply measurement knowledge to solve basic measurement problems. Students will demonstrate their
measurement skills when they complete homework assignments and exams.
Students will demonstrate computational skills with decimals. Students will demonstrate their computational skills when
they complete homework assignments and exams.
Students will demonstrate knowledge and understanding of vocabulary basic to arithmetic. Students will demonstrate
their vocabulary understanding when they complete homework assignments and exams.
Students will demonstrate computational skills with fractions. Students will demonstrate their fraction skills when they
complete homework assignments and exams.
Course Learning Outcomes Report

MATH 077A Business Mathematics

Students will analyze word 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. Students will demonstrate their application skills when they complete homework assignments and exams.

Students will demonstrate computational skills with whole numbers, fractions, decimals, and percents. Students will demonstrate their computational skills when they complete homework assignments and exams.

Students will demonstrate knowledge and understanding of vocabulary basic to business mathematics. Students will demonstrate their vocabulary skills when they complete homework assignments and exams.

MATH 077B Business Mathematics

Students will apply money management knowledge to solve insurance problems for fire, motor vehicle, and life insurance. Students will demonstrate their skills when they complete homework assignments and exams.

Students will analyze and understand problems involving business statistics and business graphs. Students will demonstrate their skills when they complete homework assignments and exams.

Students will analyze and understand financial statements such as balance sheets, income statements, and financial ratio analyses. Students will demonstrate their skills when they complete homework assignments and exams.

Students will demonstrate money management competency in figuring discount and installment loans, compound interest, annuities, sinking funds, stocks and bonds, mortgage payments and amortization, inventory, overhead, and depreciation. Students will demonstrate their skills when they complete homework assignments and exams.

MATH 078 Prealgebra

Students will solve basic linear equations using one or more operations. Students will demonstrate their equation solving skills when they complete homework assignments and exams.

Students will evaluate basic algebraic expressions containing integers. Students will demonstrate their evaluation skills when they complete homework assignments and exams.

Students will demonstrate knowledge and understanding of vocabulary basic to arithmetic and pre-algebra. Students will demonstrate their vocabulary knowledge when they complete homework assignments and exams.

Students will demonstrate computational skills with whole numbers, integers, fractions, decimals and percents. Students will demonstrate their computational skills when they complete homework assignments and exams.

MATH 078L Prealgebra Laboratory

Students will solve basic linear equations using one or more operations in a laboratory setting. Students will demonstrate their equation solving skills when they complete homework assignments and exams.

Students will demonstrate computational skills with whole numbers, integers, fractions, decimals and percents in a laboratory setting. Students will demonstrate their computational skills when they complete homework assignments and exams.

Students will demonstrate knowledge and understanding of vocabulary basic to arithmetic and pre-algebra in a laboratory setting. Students will demonstrate their vocabulary knowledge when they complete homework assignments and exams.

Students will evaluate basic algebraic expressions containing integers in a laboratory setting. Students will demonstrate their evaluation skills when they complete homework assignments and exams.
Course Learning Outcomes Report

MATH 080 Elementary Algebra

Students will demonstrate elementary skills necessary to work with non-linear expressions. Students will be able to factor basic polynomials of degree 2.

Students will demonstrate understanding of the associative, commutative and distributive properties of the real numbers by solving linear equations in one variable.

MATH 082 Intermediate Algebra

The student will analyze real world problems involving several variables and constraints. The student will identify the unknowns and set up a corresponding system of equations. The student will then solve the system to find the desired results.

The student will recognize quadratic equations, analyze them to determine the best method of solution and exhibit the analytic and algebraic skills necessary find all solutions.

MATH 086 Applied Mathematical Concepts for the Associate Degree

Students will read, understand and analyze statistical information found in the general media.

Students will use measurement and geometry to do basic home decorating and/or home repair tasks.

MATH 120 Math and Science Tutoring

The student will be a better equipped to successfully complete the math or science course for which they are receiving assistance.

MCOM 001 Introduction to Mass Communication

Students will be able to successfully demonstrate a basic understanding of media concepts. Comprehension of media concepts, such as differentiating between the news and persuasive functions of the media, as well as between fact-checked information and hearsay related topics, will be assessed during class discussion, quizzes and exams.

Students will successfully demonstrate knowledge of mass media history and how the past relates to the future of communication in class discussions, quizzes, and exams.

MCOM 002 Writing for the Media

Student will be able to produce news and opinion stories appropriate for a variety of media, including print, broadcast, online and public relations.

MCOM 004 Mass Media and Critical Thinking

Students will successfully demonstrate a critical perspective of mass media messages, differentiating between informational and persuasive functions in class discussions, quizzes, and exams.

Students will successfully demonstrate awareness of mass media effects on individuals and society (including new ways of spreading information) in class discussions, quizzes, and exams.
Course Learning Outcomes Report

MCOM 006 Media Internship

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

MCOM 007 Photojournalism

Students will successfully demonstrate a basic understanding of concepts pertaining to ethics in photojournalism. This includes sensitivity to subject, ability to capture the moment without staging a shot and other ethical considerations. Comprehension of basic photography principles, such as composition, will be assessed during class discussions, quizzes and exams.

Students will successfully demonstrate knowledge of basic photojournalism and ability to shoot photographs for print and online publication. Comprehension of basic photography principles, such as composition, will be assessed during class discussions, quizzes and exams.

MCOM 010 Introduction to Multimedia

Students will successfully demonstrate knowledge of basic principles in photography and graphic design.

The course will serve as an introduction of the convergence of all multimedia areas, with the outcome of exposing students to multimedia while providing a comprehensive project to do so.

Students will successfully produce more than two 1-2 minute video and audio packages for a web-based project.

MCOM 011 Newswriting

Students will successfully demonstrate an understanding of basic ethical concepts, including, but not limited to, conflict of interest and libel in class discussions, quizzes, and exams.

Students will successfully plan an approach to producing a publishable newspaper story. This will include developing appropriate questions, evaluating sources, collecting information, arranging and assembling a story, using professional standards to write a clear and concise article. The student will further be able to evaluate the resulting story, and, if necessary, revise it.

MCOM 012 Newspaper Production

Students will successfully demonstrate an understanding of editing copy, using appropriate industry standards, technical, legal, and ethical in class discussions, quizzes, and exams.

Students will successfully demonstrate the skills necessary to function effectively in a newsroom environment, including producing stories for the campus newspaper and news website, or photographs suitable for publication. Each student will complete a designated assignment resulting in the publication of a bi-weekly newspaper and the news website. Students will be expected to reduce errors and build news judgment with each passing issue.
Course Learning Outcomes Report

MCOM 050H Special Studies: Mass Media

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

MCOM 053 Freelance Writing

Incorporate peers' responses to original manuscript.
Develop an original idea into a portion of a manuscript in a polished and professional manner.
Write an effective query to send to potential publishers.
Develop a marketing list for a specific original manuscript.
Distinguish original manuscript from published ones in selected genre.

MCOM 069V Internship: Media

Outcome: Student will achieve specific objectives as outlined by the employer

MCOM 075 Selected Topics: Mass Communication

Outcomes will vary, depending upon the topic.

MECH 015 Machine Tool Process

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. The student will achieve "acceptable" on all three areas of the Metal Machining Rubric. 75% of students will achieve this outcome.

MECH 050A Introductory Machine Shop

The student will be able to 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.

MECH 050B Beginning Machine Shop

The student will machine a metal part on the milling machine. The part will have the following features: Three .25" drilled holes, three threaded holes, a slot, and a pocket.

MECH 050C Intermediate Machine Shop

The student will develop a program for the CNC milling machine that has the following elements: Pocket, drilled holes, face-off, centerdrill, bolt circle, and slot. The student will produce the part on the CNC milling machine.

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Course Learning Outcomes Report

MECH 050D Advanced Machine Shop

The student will use CAD/CAM software to develop a CAD drawing with the following features: Contour, pocket, drilled holes, tapped holes, and a radius on all corners. The student will use the software to develop G and M code for the CNC milling machine and produce the part.

MECH 052A Computer Numerical Control (CNC)

Outcome: The student will develop a program for the CNC milling machine that has the following elements: Pocket, drilled holes, face-off, centerdrill, bolt circle, and slot. The student will produce the part on the CNC milling machine.

MECH 052B Computer Aided Drafting/Computer-Aided Manufacturing (CAD/CAM)

Outcome: The student will use CAD/CAM software to develop a CAD drawing with the following features: Contour, pocket, drilled holes, tapped holes, and a radius on all corners. The student will use the software to develop G and M code for the CNC milling machine and produce the part.

MECH 060 Metal Trade Layout and Forming

The student will demonstrate proper usage of fabrication equipment in the completion of course required projects. These projects are evaluated using the project evaluation rubric. Students must earn a grade of C or better on the projects. 90% of students will achieve this outcome.

The student will demonstrate the correct use of materials during fabrication of projects. This will be evaluated using the project evaluation rubric. The student must obtain 75 out of 100 points on each project. 90% of students will achieve this outcome.

Student will demonstrate the correct use of parallel line developement, radial line developement, and triangulation during the layout of flat patterns for projects. Pattern development is evaluated using the project evaluation rubric. Students must earn a grade of C or better on the projects. 90% of students will achieve this outcome.

Student will demonstrate the proper use of rivets, seams, joints, and spot welding methods to construct projects. These projects are evaluated using the project evaluation rubric. Students must earn a grade of C or better on the projects. 90% of students will achieve this outcome.

MECH 067A Elementary Machine Shop I

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. The student will achieve "acceptable" on all four areas of the Metal Machining Rubric. 80% of students will achieve this outcome.

MECH 067B Elementary Machine Shop II

The student will be able to machine a metal part using a milling machine, and standard tooling. The part will have these features: an overall length and width, a pattern of drilled holes, an internal threaded hole(s) and a slot. The student will achieve ?acceptable? on all six areas of the Milling Machine Rubric. 75% of students will achieve this outcome.
MECH 067C Machine Shop I

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. The student will achieve "acceptable" on all four areas of the Intermediate Milling Machine Rubric. 75% of students will achieve this outcome.

MECH 067D Machine Shop II

The student will machine a part using the milling machine or the lathe. This part will be defined with ASME Y14.5 design standards. The student will use the information given to fabricate and inspect the project given. The student will achieve "acceptable" on all areas of the Inspection Rubric. 75% of students will achieve this outcome.

MECH 069V Work Experience: Machine Tool Technology

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

MECH 074A Computer Numerical Controlled Machining I

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 Feedrate calculations 3. CNC program 4. Dimensional accuracy of the part The student will achieve "acceptable" on all four components of the CNC Machining Rubric. 75% of students will achieve this outcome.

MECH 074B Computer Numerical Controlled Machining II

Course Outcome: 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 Feedrate calculations 3. CNC program 4. Dimensional accuracy of the part The student will achieve "acceptable" on all four components of the CNC Machining Rubric. 75% of students will achieve this outcome.

MECH 075 Selected Topics: Mechanical Technology

Will be determined by subject.

MECH 075C Employability Skills for Welders

Students will demonstrate the ability to interpret welding codes and procedures.

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MECH 076A Computer Aided Machining I

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. The student will achieve "acceptable" on all three areas of the Automated Machining Rubric. 75% of students will achieve this outcome.

MECH 076B Computer Aided Machining II

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. The student will achieve "acceptable" on all three areas of the Automated Machining Rubric. 75% of students will achieve this outcome.

MECH 087A Machine Tool Technology Specialization

The student will use a CNC (computer numerical control) machine tool to machine an aluminum part with the following features: bored hole, rectangular pocket, faced-off.

MUSIC 001 Music Fundamentals

The student will be able to read music in treble, bass and alto clef.

MUSIC 002A Music History from Antiquity to 1750

Students will evaluate and discuss the important composers and their contributions in the Medieval, Renaissance and Baroque periods.
Students will judge and critique music from the Medieval, Renaissance and Baroque periods and discuss their roles in society.
Students will identify aurally music from the Medieval, Renaissance, and Baroque periods.
Students will identify and analyze various musical styles through examples of significant works from antiquity through the Baroque periods.

MUSIC 002B Music History from 1750 to Present

Judge and critique music from the Classical, Romantic, Impressionistic and Twentieth Century periods. and discuss their roles in society.
Identify and analyze various musical styles using examples of significant works beginning with the Classical era through the twentieth century.
Evaluate and discuss the important composers and their contributions in the Classical, Romantic Impressionistic and Twentieth Century periods.
Students will be able to identify aurally music from the Classical, Romantic, Impressionistic and Twentieth Century periods.
Course Learning Outcomes Report

MUSIC 003A Music Theory and Musicianship I

Students will compose a two-part texture using the rules of Species Counterpoint.
Students will write music using common practice notation guidelines and principles.
Students will perform, write and recognize major and minor diatonic melodies, scales, intervals and harmonic progressions based on primary triads.
Students will complete a harmonic and melodic analysis of a given piece of music or compose an original composition based on diatonic harmony and four-part writing used in the common practice period.
Students will recognize and perform basic rhythms in simple and compound meters.

MUSIC 003B Music Theory and Musicianship II

Students will write and analyze music that contains modulations dominant sevenths, leading-tone chords, secondary function chords and non-diatonic seventh chords.
Students will recognize and notate by ear, harmonic progressions using seventh chords in four-part harmony.
Students will recognize and perform rhythms using sixteenth notes and syncopations.
Students will recognize and perform major and minor diatonic melodies that outline dominant seventh chords.

MUSIC 003C Music Theory and Musicianship III

Students will perform and recognize rhythms using triplets and thirty-second notes in both simple and compound meters.
Students will be able to write and analyze music using the classical era forms.
Students will be able to recognize melodies in using seventh chords and minor keys.
Students will be able to recognize and notate by ear, harmonic progressions using modulations and secondary dominant chords in major and minor keys.
Students will be able to write and analyze music using chromatic harmony including borrowed, Neapolitan and augmented sixth chords.

MUSIC 003D Music Theory and Musicianship IV

Apply aural skills to dictate more complex melodies, harmonies, and rhythms as implemented in 19th through 21st century compositions.
Diagram, compose and analyze 12-tone music using a pitch-set matrix.
Compose and analyze music using 19th, 20th and 21st century techniques such as whole-tone, synthetic, and pentatonic scales, 9th, 11th and 13th chords, altered dominants, chromatic mediants, pandiatonicism, pitch sets, 12-tone and aleatoric music.

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Course Learning Outcomes Report

MUSIC 004 Exploring Music

Identify music styles from the baroque period through the present.

MUSIC 005 Selected Topics: Music

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

MUSIC 007 Excursions in Music of Our World

The students will identify various global styles in music.
The students will understand the roles music serves in different world cultures and the instruments that express the music.

MUSIC 008 Exploring Jazz, Ragtime, and Blues

Identify jazz, ragtime and blues styles from their inception to the present.
Understand the impact of jazz, ragtime and blues on American and world cultures.

MUSIC 012A Class Voice

Students will demonstrate understanding of human vocal anatomy and physiology by taking a written examination.
Students will demonstrate proficient singing techniques such as proper breath control, lyric diction, stage presence, body alignment and ability to perform with recorded and live accompaniment by completing in-class performances.

MUSIC 015 Delta Singers

Students will satisfactorily perform as singer in a choral ensemble with good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation.
Students will improve their sight singing.

MUSIC 015M Delta Singers

Students will be able to sightsing with improved accuracy of pitch and rhythm.
Students will be able to satisfactorily perform as singer in a choral ensemble with good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation.

MUSIC 017 Concert Choir

Students will be able to satisfactorily perform as singer in a choral ensemble with good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation.
Students will be able to sightsing with improved accuracy of pitch and rhythm.
Course Learning Outcomes Report

MUSIC 017M Concert Choir

Students will be able to sightsing with improved accuracy of pitch and rhythm.
Students will be able to satisfactorily perform as singer in a choral ensemble with good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation.

MUSIC 020 Voice for Musical Theatre

Students will perform with improved understanding of proper vocal production, lyric diction, and body alignment.
Students will perform with improved stage presence and ability to characterize a role in their singing.
Students will demonstrate improved ability to perform with live accompaniment such as piano or pit orchestra.

MUSIC 022 Wind Ensemble

Students will acquire the performance skills necessary for becoming a competent professional or high level amateur musician.
Outcome: The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level. This should include holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading.
The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos for the music they are performing.
The students will demonstrate the ability to play their chosen instrument from an intermediate to advanced level. This should include but not be limited correct instrument position, posture, and hand position.

MUSIC 026 Symphonic Band

The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level to include holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading.
The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos for the music they are performing.
The students should gain an understanding and appreciation for the performance of concert band literature. This should allow them to develop sufficient instrumental skills to become a professional musician and/or to allow them develop enough skills on their instrument to perform in large music ensembles.
The students will perform a variety of concert band literature ranging from traditional through the 21st century. They should be able to demonstrate the ability to interpret and perform this great variety of literature with proper style and musicianship.

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MUSIC 026M Symphonic Band

The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, good intonation, and correct tempos for the music they are performing. The students should gain an understanding and appreciation for the performance of concert band literature. This should allow them to develop sufficient instrumental skills to become a professional musician and/or to allow them develop enough skills on their instrument to perform in large music ensembles as a life long learner. The students will perform a variety of concert band literature ranging from traditional through the 21st century. They should be able to demonstrate the ability to interpret and perform this great variety of literature with proper style and musicianship. The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level. Holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading.

MUSIC 027 Orchestra

The students in the orchestra will be able to demonstrate the ability to play their respective instruments at a medium to advanced level in rehearsal and performance. The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, correct bowings, vibrato, and correct tempos for the music they are performing. The students will perform a variety of orchestral literature from traditional to modern. They should be able to demonstrate the ability to perform this literature with proper style and musicianship.

MUSIC 028 Concert Band

Outcome: The students should gain an understanding and appreciation for the performance of concert band literature. At the same time they should develop sufficient instrumental skills to allow them to perform in large music ensembles for the rest of their lives.
Outcome: The students will demonstrate the ability to play their chosen instrument from an intermediate to advanced level. This should include but not be limited correct instrument position, posture, and hand position.
Outcome: The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level. This should include holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading. The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos for the music they are performing.

MUSIC 029 Jazz Band

Students will demonstrate critical thinking and aesthetic choices regarding the historical and sociological aspects of jazz in rehearsals and performance.
Students will understand and use analytical tools and procedures regarding music's tonal, rhythmic, formal, and expressive components in rehearsals and performance.
Students will develop the stylistic, technical, melodic and harmonic skills necessary to improvise jazz in rehearsals and performances.
Students will develop technical skill and musical artistry necessary to perform advanced jazz ensemble literature in concert.

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Course Learning Outcomes Report

MUSIC 029M Jazz Band

Students will develop technical skill and musical artistry necessary to perform jazz ensemble literature in concert. Students will understand and use analytical tools and procedures regarding music's tonal, rhythmic, formal and expressive components in rehearsals and performance. Students will demonstrate critical thinking and aesthetic choices regarding the historical and sociological aspects of jazz in rehearsals and performance. Students will develop the stylistic, technical, melodic and harmonic skills necessary to improvise jazz in rehearsals and performance.

MUSIC 030A Class Guitar

Student's will read standard musical notation and chord symbols. They will learn to write and play melodic line with the correct notes and rhythms. The student's should gain enough skill on the guitar to enable them to recreational level of skill on chords, melodic reading, and strumming styles. The student will achieve an intermediate level of recreational Guitar skills. To include but not be limited to correct right and left hand playing positions, and first position chords and bar chords.

MUSIC 030B Class Guitar

Student's will read standard musical notation and chord symbols. They will learn to right and play melodic line with the correct notes and rhythms. The student's will gain enough skill on the guitar to enable them to enjoy playing on the instrument and performing music. Student's will achieve an intermediate to advanced level of recreational Guitar skills. To include and not be limited to corrected playing and hand positions, correct hand and playing positions, and first position chords and bar chords.

MUSIC 031 Popular Wind Band Literature

The students will demonstrate the ability to play their chosen instrument from an intermediate to advanced level. This should include but not be limited correct instrument position, posture, and hand position. The students should gain an understanding and appreciation for the performance of concert band literature. The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level. This should include holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading. The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos for the music they are performing.
MUSIC 032 Delta Vocal Jazz

Students will successfully incorporate appropriate stage movement, stage presence, and expression into their performances.

Students will demonstrate proficient sightsinging ability on a performance exam.

Students will perform music from the popular idioms (jazz, musical theater, pop, etc.) with appropriate stylization, rhythm, breath support, alignment, expression, tone quality, and lyric diction.

MUSIC 036A Class Piano

80% of students will demonstrate their ability to identify and define a 3-octave range of notes and the notation used to express them by a solo performance or written exam.

80% of students will play melodies with accompanying block chords (I, IV, V7) with 80% accuracy.

MUSIC 036B Class Piano

students will play melodies with a variety of accompanying styles using block chords (I, IV, V7) in keys containing one accidental.

Students will play expressively using various articulation, tempo and dynamic markings.

students will play music covering a 4-octave range of notes through solo or group performances.

MUSIC 036C Class Piano

students will perform a variety of intermediate level repertoire that include compound meters and minor keys. These pieces will represent several style periods.

will play a melody with varying accompanying styles including Alberti Bass, Waltz and broken chords.

MUSIC 036D Class Piano

students will play intermediate piano repertoire that requires independence between right and left hands.

students will perform with expression, a variety of intermediate level repertoire selections representing several style periods.

MUSIC 038 Class Piano for Music Majors

students will perform intermediate piano literature demonstrating musical sensitivity in the following areas: phasing, tempo, dynamics, correct fingering and articulations.

students will perform the following technical skills: arpeggios, scales, sight-reading and transposition.
Course Learning Outcomes Report

MUSIC 040A Applied Music

The student should gain the appropriate skills through lessons and practice to perform recitals and solos on their instrument at a first semester Freshmen level of proficiency.

The student should demonstrate the ability to perform all the appropriate scales, chords, arpeggios, and standard performance literature for their chosen area of specialization as a first semester Freshmen in Applied Music.

The student should be building performance skills toward a level of become a competent professional performer and life long participant in music.

MUSIC 040B Applied Music

The student should gain the appropriate skills through lessons and practice to perform recitals and solos on their instrument at a second semester Freshmen level of proficiency.

The student should demonstrate the ability to perform all the appropriate scales, chords, arpeggios, and standard performance literature for their chosen area of specialization as a first semester Freshmen in Applied Music.

The student will build performance practices that will give them the necessary skills for becoming a professional performer and a life long participant in music.

MUSIC 040C Applied Music

The student should gain the appropriate skills through lessons and practice to perform recitals and solos on their instrument at a first semester Sophomore level of proficiency.

The student should demonstrate the ability to perform all the appropriate scales, chords, arpeggios, and standard performance literature for their chosen area of specialization as a first semester Freshmen in Applied Music.

The student will build performance practices that will give them the necessary skills for becoming a professional performer and a life long participant in music.

MUSIC 040D Applied Music

The student will build performance practices that will give them the necessary skills for becoming a professional performer and a life long participant in music.

The student should demonstrate the ability to perform all the appropriate scales, chords, arpeggios, and standard performance literature for their chosen area of specialization as a first semester Freshmen in Applied Music.

The student should gain the appropriate skills through lessons and practice to perform recitals and solos on their instrument at a second semester Sophomore level of proficiency and beyond.

MUSIC 041 Introduction to Media Arts, Music and Recording Technology

Complete basic music and media projects using the computer and software applications.

Memorize standard vocabulary of media and music technology.

The student will demonstrate knowledge of employment, education, and job training opportunities involving media and music technology.
Course Learning Outcomes Report

MUSIC 042 Audio Recording Techniques

Memorize standard terminology of audio production and the recording industry.
Complete basic recording projects using the computer and software applications.
Select the correct microphone for a specific recording situation and place the microphone in the best location.
Understand signal processing such as reverb, delay, equalization, and compression and apply them to appropriate recording situations.

MUSIC 042A Audio Recording Techniques

Students will memorize standard terminology of audio production and the recording industry.
Students will complete basic recording projects using the computer and software applications.
Students will select the correct microphone for a specific recording situation and place the microphone in the best location.
Students will understand signal processing such as reverb, delay, equalization, and compression and apply them to appropriate recording situations.

MUSIC 042B Audio Recording Techniques II

The student will operate recording studio equipment and complete a recording project.
During lab and recording sessions the student will demonstrate knowledge of current audio production aesthetics and trends.
During lab and recording sessions the student will demonstrate an understanding of recording studio equipment settings and adjustments.
During lab and recording sessions the student will choose and manipulate audio recording equipment correctly, including connecting correct signal path, cabling and microphones.

MUSIC 042C Audio Recording Techniques III

The student will manage a 24 track recording session.
The student will create a business plan for a recording studio.
During the lab and as assigned homework the student will evaluate recordings.

MUSIC 043A Digital Audio Workstations

Students will create basic musical arrangements using sequencing and digital audio software.
Students will memorize standard terminology of digital audio workstations, sound design, and music production.
Students will understand basic principles of digital audio and digital audio effects.
Students will compress audio into mp3 format and author audio CDs.
Students will manipulate digital audio by transposing, time stretching, effects, and looping.

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MUSIC 043B Advanced Digital Audio Workstation

Students will create advanced musical arrangements using sequencing and digital audio software.
Students will compress audio into mp3, surround, and streaming formats.
Students will author simple DVDs, audio CDs, and surround audio programs.
Students will synchronize audio and video using computer software.

MUSIC 044 Wind Symphony

The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos for the music they are performing.
The students will demonstrate the ability to play their chosen instrument from an intermediate to advanced level. This should include but not be limited to correct instrument position, posture, and hand position.
Students will gain the necessary skills as an instrumentalist, to allow them continued opportunities as performers in chamber ensembles.

MUSIC 045 Songwriting and Concept Development

The student will apply basic techniques of songwriting to their individual work.
The student will register intellectual property with the U.S. Copyright Office and performance rights groups ASCAP or BMI.
The student will create demonstration recordings of original song material.
The student will create new songs reflecting the characteristics of specified musical genres.

MUSIC 046 Music Business and Career Development

produce promotional materials press kits and portfolios
examine career and educational opportunities in the music and media industry and evaluate varying career paths.
describe and summarize key elements of music industry agreements, contracts, and procedures.
demonstrate an understanding of business models and media industry terminology

MUSIC 050H Special Studies: Music

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

MUSIC 051 Woodwind Ensemble

The student(s) should have an understanding of the musicianship, intonation, control, technique, balance, blend that it takes to perform successfully in a chamber music ensemble.
The student should play and perform in chamber ensemble(s) on their instrument of specialization.
The students will gain an understanding of and be able to perform using idiomatic embellishments in the following musical genres: Western classical, popular and jazz.
Students will gain the necessary skills as an instrumentalist, to allow them continued opportunities as performers in chamber ensembles beyond their college experience.

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MUSIC 052 Brass Ensemble

Students will gain the necessary skills as an instrumentalist, to allow them continued opportunities as performers in chamber ensembles.

The students will gain an understanding of and be able to perform using idiomatic embellishments in the following musical genres: Western classical, popular and jazz.

The student(s) should have an understanding of the musicianship, intonation, control, technique, balance, blend that it takes to perform successfully in a chamber music ensemble.

The student should play and perform in chamber ensemble(s) on their instrument of specialization.

MUSIC 053 Percussion Ensemble

In rehearsal and performance students will develop an increased knowledge of the history of percussion and performance practices.

In rehearsal and performance students will develop proficient ensemble and performance skills necessary to perform college level percussion ensemble literature.

In rehearsal and performance students will develop increased sight reading ability on a variety of percussion instruments.

MUSIC 057 Guitar Ensemble

The student(s) should gain enough skill on the guitar to their instrument at a highly proficient level.

The student(s) will do self evaluations of their concert and recital performances.

The student(s) will gain an understanding of the various styles of performance regarding, classical, popular, different styles of jazz performance practice.

The student(s) will demonstrate an understanding of proper interpretations of musical embellishments.

MUSIC 058 String Orchestra

The student should play and perform in chamber ensemble(s) on their instrument of specialization.

The students will gain an understanding of and be able to perform using idiomatic embellishments in the following musical genres: Western classical, popular and jazz.

Developing the skills for life long enthusiasm for performing in an orchestra.

Students will gain the necessary skills to perform successfully in a chamber ensemble: reading skills, intonation, control, technique, balance and blend.

MUSIC 061 Studio Band

Outcome: Students will understand analytical tools and procedures regarding music's tonal, rhythmic, formal, and expressive components.

Outcome: Students will develop technical skill and musical artistry necessary to perform advanced jazz ensemble literature in concert.

Outcome: Students will develop the stylistic, technical, melodic and harmonic skills necessary to improvise jazz.

Outcome: Students will demonstrate critical thinking and aesthetic choices regarding the historical and sociological aspects of jazz.
Course Learning Outcomes Report

MUSIC 063 Jazz Improvisation

Students will play various jazz styles with proper articulation, phrasing and rhythmic feel.

Students will improvise and compose a jazz solo over a given set of chord changes using idiomatic jazz vocabulary and correct scale choices.

Students will differentiate between different jazz styles from bebop through the present.

MUSIC 064 Jazz Combo

Students will interpret jazz standards and classics with proper tone, rhythmic feel and blend within an ensemble.

Students will perform various styles of jazz that are represented in the history of jazz from the 1940's through the present.

Students will improvise and compose idiomatic solos using common jazz language over a given set of chord changes.

MUSIC 101 Piano for Older Adult

Identify and define a 3-octave range of notes and the notation used to express them.

Students will demonstrate the skills necessary for ensemble playing.

Students will play melodies using primary chords in a variety of keys.

MUSIC 102 Creative Seniors: Music

The student(s) should gain an understanding of the various styles of performance regarding, classical, popular, different styles of jazz performance practice, and proper interpretation of embellishments written into the music.

The student(s) should have an understanding of the musicianship, intonation, control, technique, balance, blend that it takes to perform successfully in a chamber music ensemble.

The student should play and perform in chamber ensemble(s) on their instrument of specialization.

MUSIC 115 Delta Singers for Seniors

Students will demonstrate proficient ability to perform as a singer in a choral ensemble with good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation. Students will be evaluated based on their performance in public concert and rehearsal.

Students will demonstrate proficient sightsinging on a sightsinging performance exam.

MUSIC 117 Concert Choir for Seniors

Students will demonstrate good posture, breath connection, tone quality, sense of phrasing, diction, and awareness of appropriate dynamics, balance, blend and articulation in public concert and performance exams.

Students will sightsing with improved accuracy of pitch and rhythm on a sightsinging performance exam.
Course Learning Outcomes Report

MUSIC 126 Symphonic Band for Seniors

Students will be able to demonstrate the ability to perform concert band literature ranging from traditional through 21st century styles with proper style and musicianship.

The students should develop enough skills on their instrument to perform in large music ensembles as a life long learning experience.

The students in the band will be able to demonstrate the ability to play their respective band instruments at a medium to advanced level to include holding their instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading.

Students will demonstrate the ability to play individually and as a group member with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos.

Students will gain an understanding and appreciation for the performance of concert band literature, develop sufficient skills for becoming a professional musician.

MUSIC 127 Orchestra for Seniors

The students will perform a variety of orchestral literature from traditional to modern. They should be able to demonstrate the ability to perform this literature with proper style and musicianship.

The students in the orchestra will be able to demonstrate the ability to play their respective instruments at a medium to advanced level. This should include holding their instruments and bows in a proper playing position and playing the parts assigned to them in the music the orchestra is rehearsing, performing, and sight-reading.

The students will demonstrate the ability to play individually and as a group with proper style, articulation, balance and blend, dynamics, intonation, correct bowings, vibrato, and correct tempos for the music they are performing.

MUSIC 128 Concert Band for Seniors

Students will demonstrate the ability to play individually and as a group member with proper style, articulation, balance and blend, dynamics, intonation, and correct tempos.

Students will be able to demonstrate the ability to perform concert band literature ranging from traditional through 21st century styles with proper style and musicianship.

The students in the band will demonstrate the ability to play their respective band instruments in a proper playing position and playing the parts assigned to them in the music the band is performing or sight-reading.

Students will gain an understanding and appreciation for the performance of concert band literature, develop sufficient skills for becoming a professional musician.

Students will gain an understanding and appreciation for the performance of concert band literature.

MUSIC 161 Studio Band for Seniors

In rehearsal and performance students will develop the stylistic, technical, melodic and harmonic skills necessary to improvise jazz.

Students will demonstrate critical thinking and aesthetic choices regarding the historical and sociological aspects of jazz in rehearsal and performance.
Course Learning Outcomes Report

N R 002 Environmental Science

Choose conservative methods of resource consumption.
Recognize resource problems and interpret solutions across spacial scales from local to global.
3. Recognize resource problems and interpret solutions across spacial scales from local to global.

NURS 011 Selected Topics: Acute Nursing Care

Will vary by topic course developed.

NURS 015D Critical Care Nursing: Multisystem Disorders

Applying pathophysiological concepts, the student will identify compensatory responses of organ systems, as well as appropriate nursing interventions preventing patient demise.
The student demonstrate the ability to prioritize aspects of nursing care of persons experiencing hepatic, renal, and multisystem disorders in an appropriate manner.
The student will be able to identify the expanded role of the nurse in the specialty area of critical care.

NURS 017 Health and Physical Assessment

In the classroom or online venue, the student will know essential techniques of physical assessment (Inspection, Palpation, Percussion, Auscultation).
In the classroom or online venue, the student will demonstrate the ability to construct a genogram as part of a complete health history.

NURS 017A Health and Physical Assessment Practicum

In the practicum setting, the student will demonstrate administration of visual acuity using the Snellen and Rosenbaum charts.
In the practicum setting, the student will demonstrate techniques of physical assessment (Inspection, Palpation, Percussion, Auscultation).

NURS 050 Independent Study: Nursing Issues

Increase student's knowledge and skills in specified areas.

NURS 093V Work Experience: Associate Degree Nursing

The student will demonstrate the ability to work effectively as a member of the health care team.
The student Nurse Extern will demonstrate the ability to provide safe care of clients following facility and unit policies within the identified skills competencies appropriate to their level of experience.

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NURS 106 Mental Health Nursing
The student will formulate a set of therapeutic interventions for a client with a major depressive disorder.
The student will describe common defense mechanisms used by clients to reduce anxiety.

NURSADN 001 Fundamentals of Nursing Practice
The student selects appropriate measures to meet client needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
identifies the emotional, mental and social and cultural needs of the client and family and will list principles of therapeutic communication.
recognizes client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.
identifies client needs for a safe environment free from health and environmental hazards.

NURSADN 001L Fundamentals of Nursing Practice Lab
The student will begin to plan for client needs for a safe environment free from health and environmental hazards.
The student will begin to plan for client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.
The student will begin to plan for meeting clients physiological needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student will begin to plan for the emotional, mental and social and cultural needs of the client and family and will list principles of therapeutic communication.

NURSADN 002 Introduction Medical-Surgical Nursing
The student selects appropriate measures to meet client needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student recognizes client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.
The student identifies the emotional, mental and social and cultural needs of the client and family and will list principles of therapeutic communication.
The student identifies client needs for a safe environment free from health and environmental hazards.

NURSADN 002L Introduction Medical-Surgical Nursing Lab
The student recognizes client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.
The student identifies client needs for a safe environment free from health and environmental hazards.
The student selects appropriate measures to meet client needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student identifies the emotional, mental and social and cultural needs of the client and family and will list principles of therapeutic communication.
Course Learning Outcomes Report

NURSADN 003A Introduction to Medication Administration for Nursing Practice

The student will discuss and apply principles of human growth and development in the safe administration of medications.
The student will discuss and apply principles of client advocacy and client education when administering medications.
The student will discuss and apply principles of incorporating professional, legal and ethical behaviors into nursing practice that ensures the safe and effective administration of medications.
The student will discuss the role of medication administration in meeting basic needs of daily living in care plans for clients with common problems who receive pharmacological therapies.
The student will discuss and apply principles of therapeutic communication in the safe and effective administration of medications.
The student will discuss and address the psychosocial needs of clients who are receiving pharmacological therapies.
The student will discuss and apply principles of medication administration related to ensuring a safe environment for clients receiving pharmacological therapies.
The student will discuss and apply risk reduction principles to medication administration for clients receiving pharmacological therapies.
The student will plan and implement care based on research evidence that supports best practices to obtain maximum physiological outcomes for adult clients with common problems, with intermittent assistance.
The student will discuss and apply principles of medication administration that ensure a safe environment for clients receiving pharmacological therapies.

NURSADN 003B Intermediate Medication Administration for Nursing Practice

The student identifies the emotional, mental and social and cultural needs of the client and family who receive pharmacological therapies and will identify principles of therapeutic communication.
The student selects appropriate measures to meet needs of clients who receive pharmacological therapies for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student identifies the needs of clients who receive pharmacological therapies for a safe environment free from health and environmental hazards.
The student recognizes the needs of clients who receive pharmacological therapies for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.

NURSADN 003C Advanced Medication Administration for Nursing Practice

The student appraises the effectiveness of care that recognizes client needs for a safe medication administration free from environmental hazards.
The student will differentiate and analyze evidence based rationale for meeting the needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications for the client with multiple disorders.
The student considers and chooses principles of therapeutic communication that meet the emotional, mental and social and cultural needs of the client with multiple disorders who receive pharmacological therapies.
The student evaluates and revises client education appropriate to client needs for promoting and maintaining client health throughout the lifespan by incorporating human growth and development principles related to medication administration.
Course Learning Outcomes Report

NURSADN 004 Maternal, Newborn, and Reproductive Health Nursing
The student, with minimal assistance, demonstrates evidence based rationale for meeting needs of clients and childbearing families for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student, with minimal assistance, utilizes principles of therapeutic communication and plans care that meets the emotional, mental and social and cultural needs of clients and childbearing families.
The student, with minimal assistance, will employ nursing care based on the nursing process to provide a safe environment free from health and environmental hazards for clients and childbearing families.
The student, with minimal assistance, incorporates human growth and development principles in planning and organizing care that promotes and maintains health for clients and childbearing families.

NURSADN 004L Maternal, Newborn and Reproductive Health Nursing
The student provides for a safe environment free from health and environmental hazards for clients and childbearing families.
The student demonstrates the promotion and maintenance of health throughout the lifespan incorporating human growth and development principles in caring for clients and childbearing families, with minimal assistance.
The student recognizes the emotional, mental and social and cultural needs of clients and childbearing families and demonstrates principles of therapeutic communication.
The student demonstrates appropriate measures to meet the needs of clients and childbearing families for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

NURSADN 005 Infancy Through Young Adult Nursing
The student, with minimal assistance, will employ nursing care based on the nursing process to provide a safe environment free from health and environmental hazards for infants, children, adolescents and young adults.
The student, with minimal assistance, utilizes principles of therapeutic communication and plans care that meets the emotional, mental and social and cultural needs of infants, children, adolescents and young adults.
The student, with minimal assistance, demonstrates evidence-based rationale for meeting needs of infants, children, adolescents and young adults for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
The student, with minimal assistance, incorporates human growth and development principles in planning and organizing care that promotes and maintains health for infants, children, adolescents and young adults.

NURSADN 005L Infancy through Young Adult Nursing
The student, with minimal assistance, incorporates human growth and development principles in planning and organizing care that promotes and maintains health for infants, children, adolescents and young adults.
The student, with minimal assistance, utilizes principles of therapeutic communication and plans care that meets the emotional, mental and social and cultural needs of infants, children, adolescents and young adults.
The student, with minimal assistance, will employ nursing care based on the nursing process to provide a safe environment free from health and environmental hazards for infants, children, adolescents and young adults.
The student, with minimal assistance, demonstrates evidence-based rationale for meeting needs of infants, children, adolescents and young adults for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.
Course Learning Outcomes Report

NURSADN 006 Intermediate Medical-Surgical Nursing

The student, with intermittent guidance, formulates and implements a plan of care, with evidence based rationale, for meeting needs of clients with multiple medical disorders, for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

The student, with intermittent guidance, formulates and implements a plan of care addressing human growth and development principles in the promotion and maintenance of health for clients with multiple medical disorders.

The student, with intermittent guidance, incorporates principles of therapeutic communication and constructs and implements care that meets the emotional, mental and social and cultural needs of clients with multiple medical disorders.

The student, with intermittent guidance, integrates principles in the plan of care and implements actions to provide a safe environment free from health and environmental hazards for clients with multiple medical disorders.

NURSADN 006L Intermediate Medical-Surgical Nursing Lab

The student, with intermittent guidance, integrates principles in the plan of care and implements actions to provide a safe environment free from health and environmental hazards for clients with multiple medical disorders.

The student, with intermittent guidance, formulates and implements a plan of care addressing human growth and development principles in the promotion and maintenance of health for clients with multiple medical disorders.

The student, with intermittent guidance, incorporates principles of therapeutic communication and constructs and implements care that meets the emotional, mental and social and cultural needs of clients with multiple medical disorders.

The student, with intermittent guidance, integrates principles in the plan of care and implements actions to provide a safe environment free from health and environmental hazards for clients with multiple medical disorders.

NURSADN 007 Neuro-Psychiatric Nursing

The student, with intermittent guidance, formulates and implements a plan of care, with evidence based rationale, for meeting needs of clients mental health alterations and/or neurologic changes for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

The student, with intermittent guidance, incorporates principles of therapeutic communication and constructs and implements care that meets the emotional, mental and social and cultural needs of clients with mental health alterations and/or neurologic changes.

The student, with intermittent guidance, formulates and implements a plan of care addressing human growth and development principles in the promotion and maintenance of health for clients with mental health alterations and/or neurologic changes.

The student, with intermittent guidance, integrates principles in the plan of care and implements actions to provide a safe environment free from health and environmental hazards for clients with mental health alterations and/or neurologic changes.
Course Learning Outcomes Report

NURSADN 007L Neuro-Psychiatric Nursing

The student, with intermittent guidance, incorporates principles of therapeutic communication and constructs and implements care that meets the emotional, mental and social and cultural needs of clients with mental health alterations and/or neurologic changes.

The student, with intermittent guidance, formulates and implements a plan of care, with evidence based rationale, for meeting needs of clients mental health alterations and/or neurologic changes for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

The student, with intermittent guidance, formulates and implements a plan of care addressing human growth and development principles in the promotion and maintenance of health for clients with mental health alterations and/or neurologic changes.

The student, with intermittent guidance, integrates principles in the plan of care and implements actions to provide a safe environment free from health and environmental hazards for clients with mental health alterations and/or neurologic changes.

NURSADN 008 Advanced Medical-Surgical Nursing

The student, with minimal guidance, plans and implements care in a safe environment free from health and environmental hazards for children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care, with evidence based rationale, for meeting needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications, for children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care that incorporates principles of therapeutic communication and meets the emotional, mental and social and cultural needs of children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care that addresses human growth and development principles in the promotion and maintenance of health for children and adults with multiple medical or complex disorders.

NURSADN 008L Advanced Medical-Surgical Nursing

The student, with minimal guidance, plans and implements care in a safe environment free from health and environmental hazards for children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care that addresses human growth and development principles in the promotion and maintenance of health for children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care, with evidence based rationale, for meeting needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications, for children and adults with multiple medical or complex disorders.

The student, with minimal guidance, plans and implements care that incorporates principles of therapeutic communication and meets the emotional, mental and social and cultural needs of children and adults with multiple medical or complex disorders.
Course Learning Outcomes Report

NURSADN 009 Transition to Nursing Practice

The student utilizes the nursing process in planning and delivering care that meets client?s needs for a safe environment free from health and environmental hazards.

The student differentiates client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.

The student appraises the emotional, mental and social and cultural needs of the client and family and effectively uses principles of therapeutic communication.

The student analyzes evidence based rationale for meeting client needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

NURSADN 009L Transition to Nursing Practice

The student utilizes the nursing process in planning and delivering care that meets client?s needs for a safe environment free from health and environmental hazards.

The student analyzes and incorporates evidence based rationale and for meeting client needs for comfort and assistance, safe and accurate administration of medications, and risk factors for complications.

The student appraises the emotional, mental and social and cultural needs of the client and family and effectively uses principles of therapeutic communication.

The student differentiates client needs for promoting and maintaining client health throughout the lifespan incorporating human growth and development principles.

NURSPT 010 Foundations of Nursing

The student will begin, with assistance, to use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients with common problems.

The student will begin, with assistance, to plan and deliver care that incorporates principles of human growth and development for adult clients with common problems.

The student will begin, with assistance to use the nursing process to plan and implement care that meets the needs of adult clients with common problems for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions.

The student will begin, with assistance, to plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of clients.

NURSPT 010L Foundations of Nursing Lab

The student will begin, with assistance, to use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients with common problems.

The student will begin, with assistance, to plan and deliver care that incorporates principles of human growth and development for adult clients with common problems.

The student will begin, with assistance to use the nursing process to plan and implement care that meets the needs of adult clients with common problems for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions.
Course Learning Outcomes Report

NURSPT 011 Medical Surgical Nursing I

The student will, with intermittent assistance, use the nursing process to plan and implement care that meets the needs of adult clients with physical health problems for comfort and assistance, safe and accurate administration of medications, and reduction of complications or health problems related to treatments, procedures or existing conditions.

The student will, with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients with physical health problems.

The student will, with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for adult clients with physical health problems.

The student will, with intermittent assistance, use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care, to use the nursing process and organize nursing care around principles of environmental safety for adult clients with physical health problems.

NURSPT 011L Medical Surgical Nursing I Lab

The student will, with intermittent assistance, use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care, to use the nursing process and organize nursing care around principles of environmental safety for adult clients with physical health problems.

The student will, with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for adult clients with physical health problems.

The student will, with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients with physical health problems.

The student will, with intermittent assistance, use the nursing process to plan and implement care that meets the needs of adult clients with physical health problems for comfort and assistance, safe and accurate administration of medications, and reduction of complications or health problems related to treatments, procedures or existing conditions.

NURSPT 012 Medical Surgical Nursing II

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients with acute, chronic or life-threatening health conditions.

The student will plan and deliver care that incorporates principles of human growth and development for adult clients with acute, chronic or life-threatening health conditions.

The student will use the nursing process to plan and implement care that meets the needs of adult clients with acute, chronic or life-threatening health conditions, for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions.

The student will plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients with acute, chronic or life-threatening health conditions.
Course Learning Outcomes Report

NURSPT 021L Medical Surgical Nursing II Lab

The student will plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of clients.

The student will plan and deliver care that incorporates principles of human growth and development for adult clients with acute, chronic or life-threatening health conditions.

The student will use the nursing process to plan and implement care that meets the needs of adult clients with acute, chronic or life-threatening health conditions, for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions.

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients with acute, chronic or life-threatening health conditions.

NURSPT 020 Pharmacology I

The student will identify principles incorporating professional, legal and ethical behaviors into nursing practice and collaboration with healthcare team members that ensures the safe and effective administration of medications and that ensure a safe environment for clients receiving pharmacological therapies.

The student will discuss the use of the nursing process to participate in planning and implementing care that meets basic needs of daily living, ensuring a safe environment, and identifying risks for clients receiving pharmacological therapies.

The student will identify principles of human growth and development in the safe administration of medications.

The student will identify elements of care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of clients who are receiving pharmacological therapies.

NURSPT 021 Pharmacology II

The student will participate in planning and implementing care that meets basic needs of daily living, ensuring a safe environment, and identifying risks for clients receiving pharmacological therapies.

The student will incorporate principles of human growth and development in the safe administration of medications.

The student will incorporate professional, legal and ethical behaviors into nursing practice and collaboration with healthcare team members that ensures the safe and effective administration of medications and that ensure a safe environment for clients receiving pharmacological therapies.

The student will incorporate care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of clients who are receiving pharmacological therapies.
NURSPT 022 Pharmacology III

The student will integrate principles of human growth and development in the safe administration of medications. The student will integrate care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation and that assists with promotion and support of the emotional, mental and social well-being of clients who are receiving pharmacological therapies. The student will apply principles of medication administration that meets basic needs of daily living, ensure a safe environment, and reduce complications for clients receiving pharmacological therapies. The student will integrate professional, legal and ethical behaviors into nursing practice and collaboration with healthcare team members that ensures the safe and effective administration of medications and a safe environment for clients receiving pharmacological therapies.

NURSPT 030 Developmental Disabilities Nursing

The student will with intermittent assistance, use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for developmentally disabled clients.

The student will with intermittent assistance, use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions for developmentally disabled clients.

The student will, with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for developmentally disabled clients. The student will, with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of developmentally disabled clients.

NURSPT 030L Developmental Disabilities Nursing Lab

The student will with intermittent assistance, use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for developmentally disabled clients.

The student will, with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for developmentally disabled clients.

The student will with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of developmentally disabled clients.

The student will with intermittent assistance, use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions for developmentally disabled clients.
NURSPT 031 Advanced Developmental Disability Nursing

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for developmentally disabled clients.

The student will plan and deliver care that incorporates principles of human growth and development for developmentally disabled clients.

The student will plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of developmentally disabled clients.

The student will use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, and reduction of complications or health problems related to treatments, procedures or existing conditions for developmentally disabled clients.

NURSPT 031L Advanced Developmental Disability Nursing Lab

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for developmentally disabled clients.

The student will plan and deliver care that incorporates principles of human growth and development for developmentally disabled clients.

The student will plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of developmentally disabled clients.

The student will use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, and reduction of complications or health problems related to treatments, procedures or existing conditions for developmentally disabled clients.

NURSPT 040 Psychiatric Nursing I

The student will with intermittent assistance, use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will, with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients who are experiencing mental health alterations and/or geriatric changes.
The student will with intermittent assistance, use the nursing process to plan and implement care that meets the needs for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will with intermittent assistance, plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will with intermittent assistance, plan and deliver care that incorporates principles of human growth and development for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will plan, implement and evaluate care that incorporates principles of human growth and development for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will plan, implement and evaluate care that incorporates principles of human growth and development for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will use the nursing process to contribute to the identification of client needs and nursing care that protects clients and health care personnel by collaborating to facilitate effective care and to use the nursing process and organize nursing care around principles of environmental safety for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will use the nursing process to plan, implement, and evaluate care that meets the needs for comfort and assistance, safe and accurate administration of medications, reduction of complications or health problems related to treatments, procedures or existing conditions for adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will plan and deliver care individualized to the differences in ethnicity, religion, gender, level of education, socioeconomic status, and presence of disability, and sexual orientation that assists with promotion and support of the emotional, mental and social well-being of adult clients who are experiencing mental health alterations and/or geriatric changes.

The student will use the nursing process to plan, implement, and evaluate care that meets the needs for comfort and assistance, safe and accurate administration of medications, and reduction of complications or health problems related to treatments, procedures or existing conditions for adult clients who are experiencing mental health alterations and/or geriatric changes.
Course Learning Outcomes Report

P T 001 Foundations of Nursing

After describing and discussing the basic concepts of the nursing process in lecture, the student will: Identify and define each component from various examples provided; Write one actual and one potential nursing diagnosis with expected outcomes from various case scenarios used. List two nursing interventions with rationales for the actual and potential nursing diagnoses developed. Develop one individualized nursing diagnosis with expected outcomes and two nursing interventions with rationales on their assigned patient/client in the clinical laboratory. According to the following standard: identifying unusual findings during the basic health assessment; clustering data in order to reveal common themes among the unusual findings; Prioritize data from most urgent to least urgent if required.

P T 002 Introduction to Medical and Surgical Nursing

After viewing the video on Medication Administration, describing and discussing the principles of safe medication administration, the student will: 1) Recall and recite the seven (7) rights of administration; 2) list the three steps when pouring a medication; 4) Calculate a dosage from a sample problem using Dimensional Analysis; 4) Document administration according to text guidelines in the a Medication Administration (MAR) form.

P T 082 Psychiatric Technician Nursing

After reading and discussing the basic milieu therapeutic techniques, the student will: identify and define each technique; provide an example of each; explain the strengths and weaknesses of each; Integrate three techniques into their plan of care to clients with specific or chronic psychiatric diagnoses and behaviors.

P T 083 Advanced Psychiatric Technician Nursing

After completing the reading assignment and discussing the etiology, characteristics and therapeutic interventions for selected disorders of childhood, the student will: identify and define each selected characteristic according the DSM-VA criteria; write one nursing diagnosis with expected outcomes; list three nursing interventions for the nursing diagnosis; and write one evaluative statement.

P T 084 Developmental Disabilities Nursing

After reading the chapter content of the ethical, legal and safety issues of the developmentally disabled client, the student will: 1) describe the ethical, legal and safety issues involving the developmentally disabled client; 2) Identify the ethical, legal and safety issues within the clinical setting; 3) Demonstrate caring behaviors to ensure ethical, legal and safety issues are maintained.

P T 085 Advanced Developmental Disabilities Nursing

After completing the reading assignment on the societal and cultural attitudes concerning the developmentally disabled client, the student will care plan using the nursing process, based on the theoretical framework of wholism, in meeting the needs of the developmentally disabled client.
**Course Learning Outcomes Report**

**P T 101 Basic Concepts in Fundamentals of Nursing**

After describing and discussing the basic concepts of the nursing process in lecture, the student will: Identify and define each component from various examples provided; Write one actual and one potential nursing diagnosis with expected outcomes from various case scenarios used. List two nursing interventions with rationales for the actual and potential nursing diagnoses developed. Develop one individualized nursing diagnosis with expected outcomes and two nursing interventions with rationales on their assigned patient/client in the clinical laboratory. According to the following standard: identifying unusual findings during the basic health assessment; clustering data in order to reveal common themes among the unusual findings; Prioritize data from most urgent to least urgent if required.

**P T 102 Basic Concepts in Medical-Surgical Nursing**

At the end of the session, the student will be able to: 1) Recite the six (6) Rights of Medication Administration. 2) Calculate medication dosage using Dimensional Analysis with 100% accuracy. 3) Administer the medication to their assigned client in the Skills Laboratory.

**PEACTIV 001 Beginning Swimming**

The student will perform basic rhythmic and hypoxic aquatic skills non-stop for 10 seconds without assistance evaluated by a skills check list and a time test. 90% of students will achieve this outcome.

The student will swim elementary backstroke non-stop for 10 yards without assistance in 40 seconds or less on a time test. 90% of students will achieve this outcome.

The student will swim freestyle non-stop for 25 yards without assistance in 1 minute or less on a time test. 90% of students will achieve this outcome.

The student will perform basic prone and supine floating non-stop for 10 seconds without assistance on a time test. 90% of students will achieve this outcome.

**PEACTIV 001D Swim for Health**

The student will appropriately prescribe a one-week personal swim workout to include a variety of sets that equal 45 minutes. This is evaluated on a department-devised rubric. 90% of students will achieve this outcome.

The student will perform anaerobic swimming sets for at least 4 minutes and continuous aerobic swimming sets for a minimum of 12 minutes. This will be evaluated by a department-devised rubric and timed tests. 90% of students will achieve this outcome.

The student will swim 25 yards using hypoxic swim methods in one minute or less on a timed test. 90% of students will achieve this outcome.

The student will demonstrate the correct techniques for freestyle, backstroke, breaststroke, and butterfly evaluated by a department-devised rubric and timed tests. Each of these will be for a minimum of 15 yards in 40 seconds or less. 70% of students will achieve this outcome.
Course Learning Outcomes Report

PEACTIV 001E Advanced Swim for Health

The student will appropriately prescribe a personal swim workout.
During the class the student will perform anaerobic and aerobic swimming sets
During class the student will demonstrate hypoxic swim training methods.
During the course the student will demonstrate the correct techniques for freestyle, backstroke, breaststroke, and butterfly.

PEACTIV 001G Beginning Water Fitness

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected water fitness activities. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.
Students will demonstrate understanding of disciplinary concepts related to beginning water fitness and how they apply to the development of a physically educated person. Seventy percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key

PEACTIV 001H Intermediate Water Fitness

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected water fitness activities. This will be evaluated using a progress measurement that monitors the students physical activity. Eighty percent of students will demonstrate at least a five percent improvement in specified physical activities.
Students will demonstrate understanding of disciplinary concepts related to beginning water fitness and how they apply to the development of a physically educated person. Eighty percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key

PEACTIV 001I Advanced Water Fitness

Students will demonstrate understanding of disciplinary concepts related to beginning water fitness and how they apply to the development of a physically educated person. Ninety percent of students will score at a satisfactory level (70 percent) on an exit examination.
Students will demonstrate gradual improvement in strength, flexibility and endurance in selected water fitness activities. This will be evaluated using a progress measurement that monitors the students physical activity. Ninety percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 006 Wrestling

Students will demonstrate an understanding of the basic offensive and defensive wrestling fundamentals during a simulated competition. This will be evaluated using a department developed offensive and defensive rubric. Seventy percent of students will score at the proficient level on the rubric.
Students will demonstrate a basic understanding of game strategies during a simulated competition setting. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at the proficient level of this rubric
The student will demonstrate the required traits such as strength, body composition, and cardiovascular endurance through the use of a fitness test based on body weight. This will be evaluated using a department developed fitness scoring form. Students must earn performance level of fair or better on the fitness test. Seventy percent of students will achieve this outcome.
Course Learning Outcomes Report

PEACTIV 009A Individual Conditioning I

Students will demonstrate safe and appropriate use of resistance training and cardiovascular equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

Students will demonstrate understanding of disciplinary concepts related to individual fitness and how they apply to the development of a physically educated person. 70 percent of students will score at a satisfactory level (70 percent) on an exit examination.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 009B Individual Conditioning II

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Eighty percent of students will demonstrate at least a five percent improvement in specified physical activities.

Students will demonstrate understanding of disciplinary concepts related to individual fitness and how they apply to the development of a physically educated person. 80 percent of students will score at a satisfactory level (70 percent) on an exit examination.

Students will demonstrate safe and appropriate use of resistance training and cardiovascular equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

PEACTIV 009C Individual Conditioning III

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Ninety percent of students will demonstrate at least a five percent improvement in specified physical activities.

Students will demonstrate safe and appropriate use of resistance training and cardiovascular equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

Students will demonstrate understanding of disciplinary concepts related to individual fitness and how they apply to the development of a physically educated person. 90 percent of students will score at a satisfactory level (70 percent) on an exit examination.

PEACTIV 009E Jazz Aerobics

Outcome: Upon completion of the course the student will be able to: 1. participate in a prescribed aerobics program utilizing the large muscle groups of the body for a minimum of 30 minutes. 2. sustain an aerobic heart rate appropriate for exercise activity corresponding to his/her age group. 3. bring his/her heart rate back to an identified number considered "good" approximately one minute beyond exercise.
Course Learning Outcomes Report

PEACTIV 009H Beginning Sports Conditioning

Students will demonstrate an understanding of disciplinary concepts related to sports conditioning. 70 percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities as it relates to the students specific sports conditioning. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 009I Intermediate/Advanced Sports Conditioning

Students will demonstrate an understanding of disciplinary concepts related to sports conditioning. 80 percent of students will score at a satisfactory level (70 percent) on an exit examination.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities as it relates to the students specific sports conditioning. This will be evaluated using a progress measurement that monitors the students physical activity. Eighty percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 010A Beginning Fitness Walking

Students will demonstrate understanding of disciplinary concepts related to Fitness walking and how they apply to the development of a physically educated person. 70 percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key.

Students will demonstrate gradual improvement in strength, flexibility and cardiovascular endurance. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 010B Intermediate Fitness Walking

Students will demonstrate gradual improvement in strength, flexibility and and cardiovascular endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Eighty percent of students will demonstrate at least a five percent improvement in specified physical activities.

Students will demonstrate understanding of disciplinary concepts related to fitness walking and how they apply to the development of a physically educated person. 80 percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key.

PEACTIV 010C Advanced Fitness Walking

Students will demonstrate gradual improvement in strength, flexibility and cardiovascular endurance. This will be evaluated using a progress measurement that monitors the students physical activity. Ninety percent of students will demonstrate at least a five percent improvement in specified physical activities.

Students will demonstrate understanding of disciplinary concepts related to Fitness walking and how they apply to the development of a physically educated person. Ninety percent of students will score at a satisfactory level (70 percent) on an exit examination. This will be evaluated with an answer key.
Course Learning Outcomes Report

PEACTIV 014A Weight Training I

Students will demonstrate a basic understanding of disciplinary concepts related to weight training and how they apply to the development of a physically educated person. Seventy percent of students will score at a satisfactory level (70 percent) on an exit examination.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.

Students will demonstrate safe and appropriate use of weight training equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

PEACTIV 014B Weight Training II

Students will demonstrate a profecient understanding of disciplinary concepts related to weight training and how they apply to the development of a physically educated person. Eighty percent of students will score at a satisfactory level (70 percent) on an exit examination. Using an answer key.

Students will demonstrate safe and appropriate use of weight training equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Eighty percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 014C Weight Training III

Students will demonstrate an understanding of disciplinary concepts related to weight training and how they apply to the development of a physically educated person. Ninety percent of students will score at a satisfactory level (70 percent) on an exit examination.

Students will demonstrate safe and appropriate use of weight training equipment. Students will perform these safety activities. This will be evaluated through a department generated performance measure. Ninety five percent of students will score a pass on this activity.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Ninety percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 015 Selected Topics: Physical Education

 Will vary by topic course developed.

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.
Course Learning Outcomes Report

PEACTIV 01J Aquatic Conditioning

The student will swim a 400 yard swim within the following time period; Men-4:30, Women-4:55. This will be evaluated by a department-devised rubric and timed tests. 90% of students will achieve this outcome.

The student will tread water with a 10 pound brick for 8 minutes without break. This will be evaluated by a department-devised rubric and timed tests. 90% of students will achieve this outcome.

PEACTIV 022 Tennis

Students will demonstrate a basic understanding of game strategies during a simulated competition setting. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at a proficient level on this rubric.

Students will demonstrate a basic understanding of the fundamental skills of tennis through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score at the proficient level of this rubric.

PEACTIV 024 Power Volleyball

Upon successful completion of this course, the student will Know and apply the rules of volleyball in game situations.

Upon successful completion of this course, the student will demonstrate and perform the proper warm-up exercise which includes the basic skills of the game: forearm pass, overhead pass and serve.

3. The students will be able to analyze his/her own performance and that of others and then apply the results of analysis to improve performance and compare and contrast the play of others.

PEACTIV 025 Basketball

Students will demonstrate a basic understanding of the game strategies of basketball during a simulated competition setting. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at a proficient level on this rubric.

Students will demonstrate a basic understanding of the fundamental skills of basketball through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score at the proficient level of this rubric.

PEACTIV 026 Soccer

In a series of games the student will demonstrate an understanding of the fundamentals of the game, the rules of the game and positional play. Acceptable level of performance is the advanced level per the department designed rubric.

PEACTIV 027 Baseball

Students will demonstrate a basic understanding of the fundamental skills of baseball through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score at the proficient level of this rubric.

Students will demonstrate a basic understanding of game strategies during a simulated competition setting. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at a proficient level on this rubric.
Course Learning Outcomes Report

PEACTIV 028 Softball

Students will demonstrate a basic understanding of game strategies of softball during a simulated competition setting. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at a proficient level on this rubric.

Students will demonstrate a basic understanding of the fundamental skills of softball through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score at the proficient level of this rubric.

PEACTIV 029 Football

Students will demonstrate a basic understanding of the fundamental skills of football through a simulated performance. This will be evaluated using a department developed skill evaluation rubric. Seventy percent of students will score at the proficient level of this rubric.

PEACTIV 031A Beginning Bowling

Students will demonstrate an understanding of the basic fundamentals of bowling during a simulated competition. This will be evaluated using a department developed rubric. Seventy percent of students will score at the proficient level on the rubric.

PEACTIV 031B Intermediate Bowling

Students will demonstrate an understanding of the intermediate fundamentals of bowling during a simulated competition. This will be evaluated using a department developed rubric. Eighty percent of students will score at the proficient level on the rubric.

PEACTIV 031C Advanced Bowling

Students will demonstrate an understanding of the advanced fundamentals of bowling during a simulated competition. This will be evaluated using a department developed rubric. Ninety percent of students will score at the proficient level on the rubric.

PEACTIV 032 Golf

Students will demonstrate a basic understanding of game strategies during a simulated competition event. This will be evaluated with the use of a department developed game strategy rubric. Seventy percent of students will score at the proficient level of this rubric.

Students will demonstrate an understanding of the basic fundamentals of golf during a simulated event. This will be evaluated using a department developed fundamental skills rubric. Seventy percent of students will score at the proficient level on the rubric.
Course Learning Outcomes Report

PEACTIV 039E Adapted Swimming

The student will perform basic rhythmic and hypoxic aquatic skills non-stop for 10 seconds without assistance evaluated by a skills check list and a time test. 90% of students will achieve this outcome.

The student will swim freestyle non-stop for 25 yards in 2 minute or less on a time test. 90% of students will achieve this outcome.

The student will perform basic prone and supine floating non-stop for 10 seconds without assistance on a time test. 90% of students will achieve this outcome.

PEACTIV 039F Adapted Conditioning

The student will demonstrate the correct techniques for Sit-ups & push-ups evaluated by a department-devised rubric and timed tests. Each of these will be for one minute. 90% of students will achieve this outcome.

The student will throw a ball 12 yards on 10 consecutive attempts, with a 25% accuracy. 90% of students will achieve this outcome.

The student will perform aerobic conditioning for 12 minutes. This will be evaluated by a department-devised rubric and timed tests. 90% of students will achieve this outcome.

PEACTIV 101 Adapted Physical Education

Students will demonstrate understanding of disciplinary concepts related to adaptative physical education and how they apply to themselves. This will done through the demonstration of each individuals work - out.

Students will demonstrate gradual improvement in strength, flexibility and endurance in selected physical activities. This will be evaluated using a progress measurement that monitors the students physical activity. Seventy percent of students will demonstrate at least a five percent improvement in specified physical activities.

PEACTIV 112 Active Seniors

1. Each student will improve their cardio vascular condition. 2. Each student will improve their flexibility.

PETHEORY 040 Introduction to Physical Education and Exercise Science

Upon completion of this the course the student will be able to demonstrate an understanding of historical, philosophical, sociological, psychological and biomechanical aspects within the field of Kinesiology. Students will have five questions from each aspect on their final exam for a total of 25 questions. Students are expected to achieve a 70% or higher, and 70% of the students are expected to achieve this.

Upon completion of this the course the student will be able to assess and appraise career opportunities within the field of Kinesiology. Each student will interview a person in the profession and write a 3-5 page paper on the findings. A department rubric will be used to evaluate the paper. A grade of a C or better is expected of 70% of the students.

Upon completion of this course students will be able to analyze and evaluate the application of kinesiology principles in the profession. Each student will do a 3-5 page research paper on one of these principles. A department developed rubric will be used to evaluate the paper. 70% of the students will be expected to achieve a C or better.
Course Learning Outcomes Report

PETHEORY 042A Beginning Theory of Basketball

The student will demonstrate applications of Fundamental offensive and defensive concepts in game situations. This will be evaluated by a department developed rubric. 80 percent of students will score at the proficient level on the rubric.

Students will demonstrate basic fundamental skill sets in relation to the game of basketball. This will be evaluated using a performance rubric. 95% of the students will perform at a proficient level.

PETHEORY 042J Theory of Track and Field

The student will demonstrate his/her ability to organize and run a track meet including the following events: a. Sprints b. Middle distance c. Hurdles d. Relays e. Throwing events f. Jumping events at 70% accuracy of the coaching rubric. 70% of students will achieve this outcome.

The student will be evaluated on his/her develop of a personalized philosophy on coaching techniques as it is related to behavioral and learning concepts at a 70% accuracy of the effective coaching rubric. 70% of students will achieve this outcome.

Demonstrate and instruct proper mechanics of throwing a shot put, discus, hammer and javelin based on 70% accuracy of the effective technique rubric. 70% of students will achieve this outcome.

PETHEORY 042K Theory of Baseball Offense

After successful completion of this course the student will be able to: 1. Identify the various mental game techniques and how to apply them to improve performance. 2. Compare and contrast the various theories on hitting and differentiate the advantages and disadvantages of each. 3. Demonstrate the proper mechanics of hitting, bunting and base running. 4. Demonstrate the various hitting, bunting and base running drills and choose which are appropriate to correct certain mechanical flaws.

Outcome: The student will identify the various mental game techniques to developing confidence. Students will take 10 chapter quizzes covering the mental techniques. There will also be 25 questions on the final exam covering the mental game. Students are expected to score of 70% or higher on the quizzes and final exam. 70% of the students are expected to achieve this outcome.

Outcome: Each student will write a 3-5 research paper comparing and contrasting the theories of hitting and differentiating the advantages and disadvantages of each. This will be evaluated using a department developed rubric. There will also be 10 questions on the final exam covering the theories of hitting. 70% of students will correctly answer 7 out of the 10 exam question on the theories of hitting and achieve a score of 70% or higher on the research paper.

Outcome: The student will give an oral presentation covering the mechanics and drills of one of these areas: hitting, bunting, or base running. This presentation will be evaluated by a department developed rubric. In addition there will be 10 questions on the final exam from each of these areas. Students are expected to achieve a 70% or higher on the oral presentation and final exam. 70% of the students are expected to achieve this.

PETHEORY 042L Theory of Baseball Defense

Each student will compare and contrast the various team defensive strategies and identify when it is appropriate to use them. There will 5 questions on the final from each strategy on the final exam. Students are expected to score of 70% or higher on the quizzes and final exam. 70% of the students are expected to achieve this outcome.

Outcome: The student will identify the various mental game techniques to developing confidence. Students will take 10 chapter quizzes covering the mental techniques. There will also be 25 questions on the final exam covering the mental game. Students are expected to score of 70% or higher on the quizzes and final exam. 70% of the students are expected to achieve this outcome.

Outcome: The student will give an oral presentation covering the mechanics and drills of one of these areas: pitching, catching, infield play, outfield play. This presentation will be evaluated by a department developed rubric. In addition there will be 10 questions on the final exam from each of these areas. Students are expected to achieve a 70% or higher on the oral presentation and final exam. 70% of the students are expected to achieve this.

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Outcome: Each student will write a 3-5 research paper comparing and contrasting the theories of pitching and differentiating the advantages and disadvantages of each. This will be evaluated using a department developed rubric. There will also be 10 questions on the final exam covering the theories of pitching. 70% of students will correctly answer 7 out of the 10 exam question on the theories of pitching and achieve a score of 70% or higher on the research paper.

PETHEORY 042M Beginning Theory of Offensive Football

Students will describe the relationships and responsibilities between the offensive and the defensive positions. These relationships will be covered in department developed quizzes over each position and questions on the department developed final exam. 70% of the students are expected to score a 70% or higher on these quizzes and exams. Students will utilize basic football concepts to create an offensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will be able to successfully evaluate practice and game film and identify and summarize the key components for successful play. A department rubric will be used to evaluate the summary. 70% of the students are expected to score a 70% or higher.

PETHEORY 042N Advanced Theory of Offensive Football

Students will utilize advanced football concepts to create an offensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will be able to successfully evaluate practice and game film and identify and summarize the key components for successful play. A department rubric will be used to evaluate the summary. 70% of the students are expected to score a 70% or higher.

Students will describe the relationships and responsibilities between the offense and the defense. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher.

PETHEORY 042O Beginning Theory of Defensive Football

Students will be able to successfully evaluate practice and game film and identify and summarize the key components for successful play. A department rubric will be used to evaluate the summary. 70% of the students are expected to score a 70% or higher.

Students will utilize basic football concepts to create a defensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will describe the relationships and responsibilities between the offense and the defense. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher.

PETHEORY 042P Advanced Theory of Defensive Football

Students will describe the relationships and responsibilities between the offensive and the defensive positions. These relationships will be covered in a quiz over each position and questions on the final exam developed by the department. 70% of the students are expected to score a 70% or higher on these quizzes and exams. Students will be able to successfully evaluate practice and game film and identify and summarize the key components for successful play. A department rubric will be used to evaluate the summary. 70% of the students are expected to score a 70% or higher.

Students will utilize advanced football concepts to create a defensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.
Course Learning Outcomes Report

PETHEORY 042Q Beginning Coaching of Offensive Football

Students will utilize basic football concepts to create an offensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will develop a season of practice plans based on the content from lectures and information in the book. These plans will be evaluated based on a department developed practice plan rubric.

Students will be able to implement specific positional techniques and drills based on information provided in lectures and text. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher.

PETHEORY 042R Intermediate Coaching of Offensive Football

Students will utilize advanced football concepts to create an offensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will develop a season practice plans based on the content from lectures and information in the book. These plans will be evaluated based on a department developed practice plan rubric.

Students will be able to implement specific positional techniques and drills based on information provided in lectures and text. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher.

PETHEORY 042T Beginning Coaching of Defensive Football

Students will develop a season practice plans based on the content from lectures and information in the book. These plans will be evaluated based on a department developed practice plan rubric.

Students will utilize basic football concepts to create a defensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will be able to implement specific positional techniques and drills based on information provided in lectures and text. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher on these department developed quizzes and exam.

PETHEORY 042U Intermediate Coaching of Defensive Football

Students will be able to implement specific positional techniques and drills based on information provided in lectures and text. These relationships will be covered in a quiz over each position and questions on the final exam. 70% of the students are expected to score a 70% or higher.

Students will utilize basic football concepts to create an advanced defensive playbook. The playbook will be evaluated by a department developed rubric. 70% of the students are expected to score a 70% or higher.

Students will develop advanced season practice plans based on the content from lectures and information in the book. These plans will be evaluated based on a department developed practice plan rubric.
PETHEORY 042V Theory and Application of Weight Training

Students will demonstrate their knowledge of resistance and weight training and the mechanics of the exercises applied in a fitness program by designing and demonstrating their own personal workout. 70% of the students will pass with a C or better as evaluated by a department rubric.

Students will apply the fundamental concepts and techniques of weight training in a lab environment by doing a oral/visual demonstration of each exercise. 70% of the students are expected to receive a C or better based on department developed rubric.

Students will demonstrate knowledge of current terminology in resistance/weight training related to the exercise sciences by taking quizzes and final exam containing all of the relevant terms. 70% of the students should score a 70% or better on these quizzes and exams.

PETHEORY 043 Introduction to Athletic Training

Upon completion of this course students will be able to critically assess common athletic injuries and evaluate extent of soft tissue damage through the viewing of actual patients or pictures. Students are expected to achieve a 70% or better and 70% of the students should be able to achieve this outcome with a 70% score or better.

Upon completion of this class students will be required to assess, diagnose and provide treatments and therapy for a variety of athletic injuries through written assessment. 70% of the students are expected to pass this at a 70% or better.

PETHEORY 045 Special Projects: Physical Education

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

PETHEORY 048 Physiology of Sport and Exercise

After completion of the course each student will have an understanding of the physiology of muscle contraction and movement.

After completion of the course each student will have an understanding of the basic energy systems of the body and understand how they impact training and performance.

PETHEORY 049 Psychology of Sports

The student will be evaluated using a department devised rubric measuring their knowledge base, as it pertains to a learning curve for student athletes in their performance of sports at 70% accuracy. 70% of students will achieve this outcome.

The student will demonstrate in an organized writing format their philosophy of different coaching styles based on the selected coaching styles presented in class and at 70% accuracy of the coaching style rubric. 70% of students will achieve this outcome.

The student will identify effective leadership practices that are theoretically grounded and empirically tested at 70% accuracy of the effective leadership rubric. 70% of students will achieve this outcome.
Course Learning Outcomes Report

PETHEORY 050 Nutrition for Fitness and Sport

Upon successful completion of this class each student will have an understanding of their dietary needs. Each student will complete a project that calculates their RMR and activity ratio to determine their caloric needs. A department developed rubric will be used to evaluate each student project. 70% of the students are expected to achieve a 70% or higher on this project.

Upon successful completion of this course students will be able to successfully track their caloric intake and apply the information to their physical activity needs. Students will complete a three week caloric intake journal. A department developed rubric will be used to evaluate the journal. Students are expected to achieve a 70% or higher, and 70% of the students are expected to achieve this.

Upon successful completion of this course students will be able to identify the known nutrients, their functions and food sources, and apply this knowledge to individual needs for optimum fitness and performance. A department developed rubric and answer key will be developed for essay and definition matching questions on quizzes and the final exam to evaluate. 70% of the students are expected to achieve a 70% or higher on the quizzes and final exam.

PETHEORY 051 Fitness Assessment and Exercise Prescription

Each student will integrate results from health screening, fitness assessment, and goals into a safe and effective training plan for various case study clients. 70% of the students are expected to score a 70% or higher using a department developed rubric.

Each student will implement, analyze, and modify training plans to accommodate changes in progression, goals, and client results. 70% of the students are expected to score a 70% or higher using a department developed rubric.

Students will write a 3-5 page research paper defining the components and purposes of physical fitness, physical fitness testing, exercise prescription, and exercise adherence. 70% of the students are expected to score a 70% or higher using a department developed rubric.

Each student will analyze physical activity, health, and hypokinetic diseases by answering various test and quiz questions. 70% of the students are expected to score a 70% or higher.

PHILO 006 Introduction to Philosophy

Student will identify important figures throughout the history of both Western and Eastern philosophy, and articulate and explain positions and theses advocated by these figures on quizzes and exams.

Student will explain and evaluate arguments intended to prove some thesis pertaining to debates involving rationalism, empiricism, mysticism, skepticism, determinism and free will, the existence of God, the mind/body problem, the problem of personal identity, and varying accounts of "the good life" in a term paper in which an argument concerning one of the aforementioned topics is presented, explained, and critically evaluated.

PHILO 030 Introductory Logic

Given an argument, the student critically evaluates the argument to demonstrate competence in logic (on test items, essays, a research paper, a project, or an oral presentation). Competence is indicated by a minimum of 60% correct identification of conclusions as opposed to premises, inductive as opposed to deductive argumentation, validity/invalidity, soundness/unsoundness, strength/weakness, cogency/uncogency, presence or absence of fallacies, proper construction of truth tables and derivations, and correct application and explanation of probability calculations.
Course Learning Outcomes Report

PHILO 040 Ethics

Given an argument regarding a particular ethical issue (e.g. abortion, capital punishment, etc.), the student explains and critically evaluates the argument to demonstrate understanding of the debate in question and appreciation of competing perspectives regarding the issue. Competence is demonstrated by correctly explaining and evaluating a minimum of 60% of the competing perspectives, the main argument, and two objections against it. Essays are graded with respect to both content and grammatical/stylistic correctness.

PHILO 045 Philosophy of Religion

Upon successful completion of this course, the student will be able to (1) Demonstrate a basic understanding of the core issues and themes (70% proficiency), (2) Analysis of arguments pertaining to the philosophy of religion (70% proficiency), for example: the nature of religion, ultimate reality, religious experiences, religious diversity, the nature of the relationship between self and God, the sacred and the profane, faith and reason, science and religion, etc.

Analyze and critically evaluate the arguments involved in the debates about faith and reason, and science and religion with 70% proficiency.

Analyze and critically evaluate the standard theistic arguments for God’s existence, as well as the traditional challenges to the arguments for God’s existence with 70% proficiency.

PHILO 050 Asian Philosophy

explain points of similarity and areas of divergence between the Asian philosophical schools, as well as points of similarity and areas of divergence between the Eastern and Western philosophical traditions with 70% proficiency.

analyze and critically evaluate arguments in a philosophical text on a variety of issues with 70% proficiency.

Upon successful completion of this course, the student will be able to demonstrate an understanding of the fundamental tenets of the Hindu, Buddhist, Daoist, Confucian, Korean, and Japanese philosophical schools with 70% proficiency.

PHILO 050H Special Studies: Philosophy

The student and the supervising instructor will develop a course of studies that is not offered in the usual curriculum, but that will advance the student’s abilities and knowledge.

PHOTO 001A Introduction to Photography

Students will demonstrate knowledge of proper black and white photographic film exposure and film processing techniques by developing several rolls of film.

Outcome: Students will demonstrate an understanding of the basic principles and concepts of composition and design to communicate visually using black and white photographs by 1. Making photographic images based on a student generated proposal that outlines a particular concept. 2. Proposing a particular presentation method based on a cohesive project idea.

Students will demonstrate an understanding of basic black and white photographic printing techniques by making their own prints and passing a quiz.
Course Learning Outcomes Report

PHOTO 001B Intermediate Photography

Students will demonstrate the ability to complete a portfolio of images that are properly printed on fiber paper and they will formally present the images during a final critique. The portfolio will be presented with an artist statement that outlines their conceptual ideas.

Students will demonstrate the ability to complete an assignment that teaches them to bracket and use equivalent exposure to exposed their negatives properly.

Students will demonstrate the ability research and write a two page Artist Paper that explores a photographer, of their choosing, who has a published monograph.

PHOTO 003A Introduction to Digital Photography

Students will be able to produce a portfolio and identify the critical components of a photographic portfolio by presenting an oral critique of their work.

Students will demonstrate their knowledge of the manual functions of the digital camera by an in class demonstration.

Students will make and evaluate a properly printed digital print using two criteria (color and density).

PHOTO 015 Selected Topics: Photography

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for this course.

Will vary by topic course developed.

PHOTO 034 Workshop Projects

Using a faculty-devised checklist students will demonstrate an ability to research and develop a personal photographic style in the context of contemporary photography.

Students will demonstrate an understanding of advanced black and white photographic printing techniques by making their own prints.

PHOTO 050H Special Studies: Photography

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student’s abilities and knowledge.

PHOTO 101 Photography for the Older Adult

Students will demonstrate understanding by exposing, developing, and printing using traditional photographic materials.

PHSCI 001 Matter and Energy

A student should be able to solve simple problems.

A student should memorize and recollect fundamental scientific terminology, which spans the physical sciences (physics, chemistry, geology, meteorology, astronomy).

A student should be able to explain and differentiate in writing scientific concepts and phenomena.
Course Learning Outcomes Report

**PHYSC 002A General Physics**

The student will use data to predict subsequent behavior of mechanical and oscillating systems.
The student will solve mechanical and wave problems associated with the physical world.
The student will utilize measuring devices to obtain data to investigate physical laws in mechanics and waves.
The student will see relationships between observations of specific experiments in the laboratory and other, similar, physical systems.

**PHYSC 002B General Physics**

The student will utilize measuring devices to obtain data to investigate electromagnetic and optical laws.
The student will see relationships between observations of specific experiments in the laboratory and other, similar, physical systems.
The student will solve problems associated with electromagnetism and optics in the physical world.
The student will use data to predict subsequent behavior of electromagnetic and optical systems.

**PHYSC 004A Principles of Physics: Mechanics**

The student will solve mechanics problems associated with the physical world.
The student will see relationships between observations of specific experiments in the laboratory and other, similar, physical systems.
The student will use data to predict subsequent behavior of mechanical systems.
The student will utilize measuring devices to obtain data to investigate physical laws of mechanics.

**PHYSC 004B Principles of Physics: Waves, Sound, and Thermodynamics**

The student will use data to predict subsequent behavior of oscillatory or thermodynamical system.
The student will see relationships between observations of specific experiments in the laboratory and other, similar, physical systems.
The student will solve wave- and thermodynamics problems associated with the physical world.
The student will utilize measuring devices to obtain data to investigate laws of waves and thermodynamics.

**PHYSC 004C Principles of Physics: Electricity and Magnetism**

The student will use data to predict subsequent behavior of electromagnetic system.
The student will utilize measuring devices to obtain data to investigate laws of electricity and magnetism.
The student will see relationships between observations of specific experiments in the laboratory and other, similar, physical systems.
The student will solve electromagnetics problems associated with the physical world.
**Course Learning Outcomes Report**

**PHYSC 010 Introduction to Physics**

Students will demonstrate their knowledge of vector and scalar quantities by solving problems.

Students will demonstrate the ability to write a formal lab report.

Students will demonstrate the ability to think critically to solve problems in various topics covered in the course. Such topics include Newton's laws of motion, Fluids, Heat and Thermodynamics, Electricity and Magnetism, and Optics.

**PLANT 010 Principles of Plant Science**

The student will demonstrate knowledge and understanding of basic plant metabolism.

**PLANT 010L Principles of Plant Science Laboratory**

The student will demonstrate the appropriate techniques used to benchgraft grape vines.

**PLANT 014 Soil Science**

Estimate the basic physical, chemical and biological characteristics of soil, including texture, color, structure, density, organic matter content and microbial activity.

Measure soil pH, electroconductivity, and salinity.

Conduct a field trial growing vegetables.

**PLANT 050H Special Studies: Plant Science**

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

**PLANT 075 Selected Topics: Plant Science**

Will vary by topic course developed.

**PLANT 096V Work Experience: Plant Science**

The student/work experience employee will show the relationship of the work experience to the discipline area supervising instructor by submitting a written report, a weekly log of activities, or a portfolio of exemplary tasks.

**POLSC 001 American Government and Institutions**

Students will be able to identify the ideas and institutions that makeup the American political system.

**POLSC 002 Introduction to Comparative Politics**

Students will demonstrate their analytical, writing, organizational and citation skills when they write a research paper on a topic related to the course such as on democratization or environmental policies in a country other than the United States.

Students will demonstrate their knowledge of key concepts of comparative politics, as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.

Students will demonstrate their research skills by correctly researching and recording political information about a country other than the United States as a homework assignment.

Students will demonstrate an increased interest and participation in politics, as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.

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POLSC 003 Introduction to Political Theory

Students will demonstrate their knowledge of key concepts of political theory, as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.

POLSC 005 International Relations

Students will write a policy paper to the president on a pressing foreign policy issue affecting the United States. They will summarize the issue, present relevant background information, alternative actions and a proposed solution.

Students will write a research paper on a topic related to international relations such as on a human rights issue or an environmental concern.

Students will identify the foreign policy positions of the incumbent president as reflecting a realist or liberal perspective.

Students will apply theoretical perspectives (e.g., realism and liberalism) to explain world events (e.g., the outbreak of a war or collaboration within the United Nations).

POLSC 009 Politics and History of the Constitution

describe the tension between executive powers and legislative powers in the U.S. Constitution's system of separate powers and checks and balances

identify and explain key constitutional provisions or amendments

describe the power of judicial review and its relevance to a modern constitutional controversy

POLSC 015 Selected Topics: Political Science

Will vary by topic course developed.

POLSC 015T United States Constitution Symposium

The students will be able to describe the tensions that are reflected in the constitutional provisions regarding the power to wage war.

POLSC 051H Government Internship

Students will achieve work-related objectives as specified by the employer.

Students will demonstrate their analytical, writing, organizational and citation skills when they write a research paper on a political topic related to the internship.

PSYCH 001 Introduction to Psychology

Students will demonstrate their knowledge of the major concepts and theoretical perspectives in psychology, as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.


Course Learning Outcomes Report

PSYCH 002 Statistical Methods For Psychology & Social Science

The student will demonstrate their knowledge of the differences between various inferential statistics, along with their appropriate uses by scoring 70% or higher on test questions related to inferential statistics. Test items will consist of true-false questions, multiple-choice questions, fill-in-the-blank questions, and situation/example questions. 75% of the class should meet this goal.

The student will demonstrate the "real life" use of various inferential statistics (i.e., correlation, t-test, Chi-square, and analysis of variance) by conducting research projects and scoring 70% or higher when evaluated by the instructor's assessment rubric. 75% of the class should meet this goal.

The student will demonstrate their knowledge of the differences between various descriptive statistics, along with their appropriate uses by scoring 70% or higher on test questions related to descriptive statistics. Test items will consist of true-false questions, multiple-choice questions, fill-in-the-blank questions, and situation/example questions. 75% of the class should meet this goal.

The student will demonstrate their knowledge of the interpretation of various statistical analyses by scoring 70% or higher on test questions related to the interpretation of statistical analyses. Test items will consist of true-false questions, multiple-choice questions, fill-in-the-blank questions, and situation/example questions. 75% of the class should meet this goal.

PSYCH 003 Personal and Social Psychology

Students will demonstrate their knowledge of the key concepts involved in emotional well-being, personal growth, and psychosocial adjustment as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.

PSYCH 004 Introduction to Experimental Psychology

The student will demonstrate their knowledge of APA-style writing by scoring 70% or higher on each section (e.g., Introduction, Method, Results) of a research manuscript when evaluated by the instructor's assessment rubric. 70% of the class should meet this goal.

The student will demonstrate their understanding of various statistical tests (e.g., Pearson r, t-tests, Chi-square and analysis of variance) by conducting various research projects and scoring 70% or higher on each one when evaluated by the instructor's assessment rubric. 75% of the class should meet this goal.

The student will demonstrate their understanding of the basic terminology of research by scoring 70% or higher on test questions related to terminology. Test items will consist of true-false questions, multiple-choice questions and situation/example questions. 75% of the class should meet this goal.

PSYCH 006 Lifespan Psychology

Students will demonstrate their knowledge of the major physical and psychological changes that occur throughout the human lifespan., as measured by a faculty-designed, multiple choice pre-and a post test upon the beginning and completion of the course.
Course Learning Outcomes Report

PSYCH 007 Abnormal Psychology

Generate the five axes of the DSM and explain what each of them is about.

PSYCH 008 Drug and Alcohol: Community Overview, Awareness & Prevention Strategies

The student will be able to define the issues surrounding recovery. Student will be able to identify the 10 steps as outline by the state licensing board.
Student will distinguish and show an understanding of the progression of the disease of addiction from abuse to dependency
Student will be able to identify educational, treatment and prevention programs at a micro, macro and meso level.
The student will be able to describe and identify the various modalities used in the treatment of addiction at an individual, family, community, state, and national level.

PSYCH 009 Psychology: Issues of Diversity

Students will be able to synthesize knowledge of social and cultural psychology as it relates to the counseling fields
Students will be able to identify and explain the strengths and limitations of explanations of cultural behavior of each perspective

PSYCH 010 Communicable Disease Awareness in Counseling

students will be able to define and employ the necessary terminology to facilitate communication with members of allied professions and the public regarding communicable diseases.
students will be able to describe the symptoms, preventative strategies, appropriate care and counseling techniques for at least five diseases presented in class discussions and topics.
Students will be able to understand strategies for diagnosis, prevention and control of infectious agents as it relates to the counseling fields and apply these strategies to everyday situations.
Students will be able to understand health factors that impact individuals and know how to access and work with families and local and community health and mental health resources to support these clients’ needs.
The student will be able to identify the role of law in public health, review the history and current status of the public health infrastructure as it relates to protecting us from and responding to infectious disease, identify the nature and causes of emerging infectious diseases and how they apply to at risk populations.
In the counseling field student will demonstrate adequate methods of self-protection from communicable and infectious diseases.

PSYCH 011 Assessment for Treatment Planning

1) The student will role play with classmates the administration of the basic parts and tools of the ASI. 2) The student will score results 3) The student will present a written assess report with assessment finds and recommendation for treatment planning
1) The student will identify in the form on an exam the major sections of the DSM-IV by describing the uses of each section in practical terms. 2) The student will use the DSM-IV-TR to correctly diagnose fictional clients described in case summaries
The student will write a report which includes an analysis of assessment data and a viable treatment plan.

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PSYCH 013 Professional Ethics in Counseling

Using text-based and/or instructor’s supplemental materials the student will successfully recognize ethical dilemmas and appropriately apply the ethical decision making steps.

1) Using the professional code of ethics, student will analyze case scenarios and distinguish between ethical and unethical response within the scenarios. 2) Additionally the student should be able to refer to one or more ethical standards and provide a rational for the interpretation.

PSYCH 015 Selected Topics: Psychology

The student will satisfactorily demonstrate the required skills to meet the variable outcomes developed for the course. Will vary by topic course developed.

PSYCH 024 Psychology of Aging

1. Identify common physical, psychological, and sociological changes and needs of the geriatric population. 2. Analyze and evaluate contemporary issues related to housing, medical care, and other concerns of the aging population.

PSYCH 030 Human Sexuality

The student can examine popular information about human sexuality and evaluate its accuracy through comparison with current research information.

PSYCH 038 Counseling Skills

Student will know and display the roles and skills needed to work in the counseling profession.

PSYCH 039 Client Interview, Evaluation, and Referral

Student will be able to conduct an intake interview and mental status exam.
Student will be able to identify local resources and referral trends
Student will be familiar with evaluation procedures and assessment interpretation as it relates to the counseling field.

PSYCH 040 Case Management and Treatment Planning

Become familiar with referral sources in the community
2. Formulate case plans related to outcome goals.

PSYCH 045A Beginning Field Practicum

Students will show knowledge of how to establish clear expectations for establishing professional ethics and boundaries when working with clients
Students will be able to identify the biological, sociological and psychological factors related to counseling issues.
Student will be able to identify community resources and services for clients.

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**PSYCH 045B Intermediate Field Practicum**

Student will have enhanced ability to assess, diagnose, and provide appropriate diagnosis, treatment and recovery interventions

Students will show knowledge of how to establish clear expectations for establishing professional ethics and boundaries when working with clients

Student will apply and enhance counseling skills.

**PSYCH 046 Individual Counseling**

The student will be able demonstrate how transference and countertransference are often a part of the helping process

Students will learn and apply basic counseling and communication skills in relationship to the counseling process.

Students will describe what specific strategies, techniques, and interventions are associated with individual counseling theories

**PSYCH 047 Group Counseling**

Student will demonstrate knowledge of the stages of a group.

Student will be able to choose proper ethical and legal guidelines and apply them to group settings.

**PSYCH 048 Family Counseling**

Student will be able to create and interpret a Genogram

Students will know list of common characteristics of dysfunctional families.

**PSYCH 050H Special Studies: Psychology**

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

**PSYCH 052 Introduction to Substance Abuse Counseling**

Describe the impact of the "hidden faces" of chemical dependency among diverse populations

Identify and properly use the basic terminology used in substance abuse treatment.

**PSYCH 053 Drugs and Society**

Student will be able to apply skills and knowledge regarding drugs and substance abuse to a case study/role playing situation.

Student should know the drugs of abuse by category: stimulants, depressants, hallucinogens, alcohol, marijuana, etc.
PSYCH 056 Assisting Sexual Assault Victims

Student should be knowledgeable about victim resources available in the community.
Student should know the different types of rape along with the reasons rapes are committed.
Student should know the process of the criminal justice system as it relates to perpetrators and victims regarding sexual assault.
Student should know the symptoms of the Rape Trauma Syndrome.

RAD 010 Introduction to Radiography

The student will demonstrate an understanding of evaluation of radiographs for technical quality based on discipline standards. Student will achieve the basic level on a technical skills test based on a department designed rubric.
The student will demonstrate proper quality control using test tools. Student will achieve the basic level on a technical skills test based on a department designed rubric.
The student will demonstrate understanding of shielding requirements for a general radiographic room by achieving at least 70% on a written exam based on a department designed rubric.

RAD 010A Beginning Clinical Laboratory

The student will maintain appropriate, professional behavior when assisting clients in the radiology area.
The student will demonstrate proper care of equipment in the radiology department.
The student will properly maintain supplies needed to perform x-ray examinations 90% of the time, including films, jackets, and essential paperwork.

RAD 010B Intermediate Clinical Laboratory

The student will demonstrate proper positioning for examinations of the alimentary, biliary, and urinary tracts.
The student will accurately perform quality control on equipment daily.
Student will perform radiographic examinations of the chest of adequate quality 80% of the time.

RAD 011 Radiographic Positioning and Terminology

The student will position for projections of the axial skeleton, periperal skeleton, and internal organs with 80% accuracy.
The student will identify pathological conditions, congenital anomalies, and injuries on written examination with 85% accuracy.
The student will demonstrate use of aseptic technique at all times while administering contrast media.

RAD 012 Radiographic Anatomy

The student will demonstrate the ability to identify structures in reference to topical land marks with 90% accuracy.
Demonstrate critical thinking skills in classroom discussion of common pathologies and relevant radiographic findings during each classroom session.
The student will be able to describe the general, common functions of each major body system with 100% accuracy.
Course Learning Outcomes Report

**RAD 013 Principles of Radiographic Technique**

The student will demonstrate appropriate measures to control exposure to scattered radiation at all times.

The student will perform mathematical calculations based on standard formulas utilized in radiographic imaging with 90% accuracy.

The student will consistently select the appropriate technique charts.

**RAD 014 Imaging Processing**

Student will convert Fahrenheit to Celsius and vice versa with 100% accuracy.

Student will successfully list the steps of hand development of x-ray film in proper order.

Student will demonstrate an understanding of the construction of a dark room and the purpose of each component, including flooring, wall construction, colors used, required equipment, and location within the Radiology Department.

**RAD 020 Advanced Radiographic Positioning and Terminology**

Student will successfully perform examinations of the thorax, cranium, skull, and facial bones using correct positioning and shielding techniques 80% of the time.

The student will select appropriate contrast media in use for examinations of organ systems, joints, and endocrine glands.

Identify landmarks and structures on diagnostic imaging of the chest, head, and organ systems correctly at least 80% of the time.

**RAD 020A Advanced Clinical Laboratory**

All instruments for radiologic examinations will be properly cleansed and sterilized after each use.

The student will properly position the client for biliary examinations at least 90% of the time.

Student will perform activities in proper sequence: Prepare tray, position client, and sequence films 90% of time.

**RAD 021 Advanced Radiographic Anatomy**

The student will explain the interdependencies of each body system.

The student will identify structures of the skull and facial bones as seen on radiographs, drawings, and actual human skulls.

The student will be able to identify sources of circulation for each body system with 80% accuracy as viewed on radiographs and drawings.

**RAD 022 Fundamentals of X-Ray and Radium Physics**

The student will be able to identify AC and DC circuits and explain types of resistance associated with current.

The student will be able to describe the process of ionization.

The student will be able to perform computations utilizing Ohm's law with 80% or better accuracy.

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RAD 023 Positioning and Technical Laboratory

Construct a chart describing appropriate shielding techniques for each of the examinations to be performed in the clinical area.
Evalue radiographs as to level of quality and accuracy of placement.
Create a portfolio of radiographs of acceptable quality for each examination performed in this clinical experience.

RAD 030 Intermediate Positioning and Technical Laboratory

The student will be able to evaluate films for technical quality, proper positioning and identification.
The student will be able to accurately complete a written report of examination findings.
The student will follow proper shielding techniques to protect themselves, patients, and other people from unnecessary exposure to ionization.

RAD 030A Senior Clinical Laboratory

The student will show empathy and caring behaviors at all times during their interactions with patients.
The student will follow proper shielding techniques to protect themselves, patients, and other people from unnecessary exposure to ionization.

RAD 030B Advanced Senior Clinical Laboratory

Accurately calculate the proper amount of exposure needed to produce optimal examinations 80% of the time.
Evaluate radiographs for technical quality, proper positioning and identification for advanced examinations.
Provide proper protection from unnecessary radiation exposure for self, assistants, and clients while performing advanced examinations.

RAD 031 Advanced Positioning and Technical Laboratory

The student will describe appropriate shielding procedures for a general radiographic room with 100% accuracy.
The student will provide usable results of fluoroscopy procedures for quality.
Students will accurately rate radiographs for technical quality 80% of the time.

RAD 032 Sectional Anatomy

The student will be able to recognize relationships between body systems with 80% accuracy.
The student will perform 3 usable examinations using ultrasonography.
The student will perform 3 usable examinations using magnetic resonance imaging.

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The student will position clients properly while obtaining usable images using Computed Tomography and Magnetic Resonance Imaging.

The student will prepare an accurate and concise resume with cover letter for seeking employment as a radiologic technologist.

The student will be able to explain how Computed Tomography and Magnetic Resonance Imaging examinations are obtained.

RAD 040A Radiographic Laboratory

Student will position clients properly and obtain diagnostic images using computed tomography correctly for 19 of 20 examinations.

The student will correctly explain the differences between x-rays and gamma rays.

The student will complete competency requirements for all routine examinations, meeting requirements to be eligible to take the American Registry of Radiologic Technologists exam.

RAD 041 Radiographic Pathology and Film Critique

The student will be able to identify appropriate examinations for clients with suspected pathologies with 80% or better accuracy.

The student will detect pathologic findings on radiographs with 80% accuracy.

The student will select the appropriate exposure factor to identify destructive or additive pathologys with 80% accuracy.

READING 069V Internship: Reading

The student/intern will relate the internship experiences to the specific occupation by presenting one of the following at the culmination of the internship: a written report comparing and contrasting the intern experience with the employee's experiences; a weekly log of tasks performed during the internship with reflections on the relevance for the workplace; a portfolio of activities demonstrating the tasks competencies gained during the experience; or other methods of reporting deemed appropriate by the supervising instructor.

READING 090A Reading about Careers

Student will demonstrate ability to apply knowledge of career options to college and life planning.

Students will be able to determine the meaning of unfamiliar words using the following strategies: context clues, structural analysis, and dictionary skills.

Students will apply word attack strategies to pronounce new words.

Students will apply various comprehension strategies to articles written below the eighth grade level.

Students will read and respond to expository text using the shared inquiry technique, which includes interpretive reading, writing, and discussion.
READING 090B Reading: Career Pathways

Students will apply word attack strategies to pronounce new words.
Students will be able to determine the meaning of unfamiliar words using the following strategies: context clues, structural analysis, and dictionary skills.
Students will apply various comprehension strategies to articles written below the eighth grade level.
Students will read and respond to expository text using the shared inquiry technique, which includes interpretive reading, writing, and discussion.
Students will demonstrate an understanding of the college system needed to stay in college.

READING 091 Reading Skills in Academic Content Areas

Students will annotate, summarize, and respond to a leveled article of expository text.
Students will determine the meaning of words with multiple, specialized, or technical meanings using various comprehension strategies, such as context clues, structural analysis, and dictionary skills.
Students will annotate, summarize, and respond to a given article concerning issues in a vocational area.
Students will determine the meaning of words with multiple, specialized, or technical meanings using various comprehension strategies, such as context clues, structural analysis, and dictionary skills.

READING 091A Contextualized Reading

Students will apply word attack strategies to pronounce new words.
Students will apply various comprehension strategies to articles written below the eighth grade level.
Students will be able to determine the meaning of unfamiliar words using the following strategies: context clues, structural analysis, and dictionary skills.

READING 091B Contextualized Reading

Students will determine the meaning of words with multiple, specialized, or technical meanings using various comprehension strategies, such as context clues, structural analysis, and dictionary skills.
Students will annotate, summarize, and respond to a leveled article of expository text.

READING 091C Contextualized Reading

Students will determine the meaning of words with multiple, specialized, or technical meanings using various comprehension strategies, such as context clues, structural analysis, and dictionary skills.
Students will annotate, summarize, and respond to a leveled article concerning issues in a vocational or academic area.

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READING 091D Reading in World Geography and Culture

Students will read and discuss references made to historical events and people in articles from current periodicals.
Students will determine the meaning of terminology essential to a geography course using various strategies such as context clues, structural analysis, and dictionary skills.
Students will annotate, summarize, and respond to articles concerning issues in geography.
Students will select and apply reading strategies such as annotating, summary writing, mapping, and Survey, Question, Read, Recite, Review (SQ3R) to identify and understand key concepts in content area material in geography.

READING 091E Reading in History

Students will annotate, summarize, and respond to articles concerning issues in history.
Students will select and apply reading strategies such as annotating, summary writing, mapping, and Survey, Question, Read, Recite, Review (SQ3R) to identify and understand key concepts in content area material in history.
Students will determine the meaning of terminology essential to a history course using various strategies such as context clues, structural analysis, and dictionary skills.
Students will read and discuss references made to historical events and people in articles from current periodicals.

READING 091F Reading in Children's Literature

Students will analyze and evaluate various genres of children's books: picture books, chapter books, poetry collections, and informational texts.
Students will ascertain the meaning of words essential to the study of literature using various strategies such as context clues, structural analysis, and dictionary skills.
Students will read, discuss, and analyze children's books and short stories using the shared inquiry method.
Students will annotate, summarize, and respond to articles concerning children's books and folklore.

READING 092 Reading and Writing for Personal Growth and Career Success

Upon successful completion of this course, the student will create a map of a sample textbook chapter, showing main ideas, and major details.
Upon successful completion of this course, the student will write an on-demand multiple-paragraph response essay based on a classroom reading.
Upon successful completion of this course, the student will write a summary of a short essay, including main idea, author, title, and major supporting details.

READING 094 Critical Reading for College

Students will respond to a college-level article that they have read and analyzed. The response will show the ability to critically process and respond to the author's premise.
Students will analyze a college-level article or essay using logical reasoning skills and write a passing summary. The student will identify and restate the article/essay's thesis and supporting points in their own words.
READING 094A Critical Reading for College English

Students will determine the meaning of words with multiple, specialized, or technical meanings using various comprehension strategies such as context clues, structural analysis, and dictionary skills.
Students will select and adapt a reading comprehension strategy such as mapping, annotating, or summarizing for a college-level article or essay.
Students will research a specified topic using library and electronic sources.
Students will evaluate and analyze an article or essay using logical reasoning skills.

READING 096 Individualized Reading Skills for College Courses

Students will research a selected topic then analyze and evaluate the information to produce a documented paper supporting the student's thesis.
Students will independently read, annotate, summarize, and interpret a leveled article or textbook passage.

READING 098 Individualized Reading Skills

Students will independently read, annotate, summarize, and interpret a leveled article or textbook passage.

RELGN 014A Great Religions of the Eastern World

Upon successful completion of this course the student will be able to: identify and explain the main differences between the academic study of religion and the insider's approach to the study of religion.
the student will be able to identify and evaluate the assumptions underlying his or her own religious beliefs and practices.
the student will be able to discuss, compare, and contrast the history, basic beliefs, myths, symbols, and practices of the major religious traditions of the Eastern World

RELGN 014B Great Religions of the Western World

Upon successful completion of this course the student will be able to: identify and explain the main differences between the academic study of religion and the insider's approach to the study of religion.
the student will be able to identify and evaluate the assumptions underlying his or her own religious beliefs and practices.
the student will be able to discuss, compare, and contrast the history, basic beliefs, doctrines, myths, symbols, and practices of the major religious traditions of the Western World.

RTV 001 Introduction to Broadcasting

Students will be able to successfully analyze the role of broadcasting in contemporary life. This matter and related topics, will be assessed during class discussion, quizzes and exams.
Students will successfully demonstrate knowledge of broadcasting history and how the past relates to the future of electronic communications in class discussions, quizzes, and exams.
Course Learning Outcomes Report

RTV 005 Selected Topics: Radio/Television

Demonstrate knowledge in a specialized subject area.

RTV 005A Digital Video Editing

Demonstrate entry-level skills in the technical aspects of non-linear editing.

RTV 005B Digital Film Production I

Demonstrate entry-level skills in the technical and production aspects of digital film production.

RTV 011 Fundamentals of Audio Production

The student will successfully demonstrate the correct principles behind a variety of shared audio data storage solutions through a project based activity and examination question.

The student will successfully demonstrate the ability to record, mix, and export a short audio project by utilizing an audio editing program, microphone, console, and other essential audio accessories.

RTV 012 Techniques of Audio Production

Utilizing traditional audio production equipment and software, students will successfully demonstrate proper digital audio production techniques by producing an original song, a selection of sound effects, or a radio air-check audio project.

The student will successfully demonstrate proper digital audio recording and editing techniques through a project based activity.

RTV 013 Audio Production Workshop

The student will successfully demonstrate various production technique accomplishments by producing a broadcast-quality "air check? or produce a studio-quality "audio production sample."

Students will successfully demonstrate knowledge of audio production terminology in class quizzes and exams.

RTV 021 Fundamentals of Video Production

The student will successfully demonstrate the ability to shoot and download a short video project by utilizing a digital video camera with audio accessories and appropriate audio/video cabling.

Students will successfully demonstrate and apply an understanding of the three basic phases of production (1. Preproduction 2. Production 3. Post-Production) through a project based activity and examination question.

RTV 022 Techniques of Video Production

Utilizing traditional video production equipment and software, students will successfully demonstrate proper digital video production techniques by producing a narrative short feature video project.

Students will successfully demonstrate proper basic skills in the technical aspects of non-linear editing through a project based activity and examination question.

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RTV 023 Video Production Workshop

The student will successfully demonstrate advanced components of television producing and directing, including planning, scripting, storyboarding, floor plans with placement of cameras through a project based activity and examination question.

Students will successfully demonstrate knowledge of video production terminology in class quizzes and exams.

RTV 027 Digital Video Editing

Demonstrate entry-level skills in the technical aspects of non-linear editing.

RTV 031 Media Performance

Students will successfully demonstrate different styles and types of radio and television announcing. This will be done through announcing assignments (including news, sports, and weather forecasting).

Students will demonstrate command of subject, organization of thoughts, and other essential interpersonal communication skills while presenting an interview session in front of an audience.

RTV 050H Special Studies: Radio/Television

The outcomes will vary depending on the special studies shown.

RTV 069V Internship: Radio and Television

Upon completion of this course, the student will satisfactorily demonstrate knowledge and technical skills utilized in professional radio, television, and/or multimedia.

Upon completion of this course, the student will satisfactorily demonstrate methods to establish and develop professional contacts in a potential field of interest.

The student will satisfactorily demonstrate the required professional media skills to meet the variable outcomes developed for this course.

RTV 098V Work Experience: Radio and Television

Upon completion of this course, the student will satisfactorily demonstrate methods to establish and develop professional contacts in a potential field of interest.

The student will satisfactorily demonstrate the required professional media skills to meet the variable outcomes developed for this course.

Upon completion of this course, the student will satisfactorily demonstrate knowledge and technical skills utilized in professional radio, television, and/or multimedia.
RUSS 075 Selected Topics: Russian

Will vary.

SL 001 Elementary American Sign Language

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

SL 002 Elementary American Sign Language

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

SL 003 Intermediate American Sign Language

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

SL 004 Intermediate American Sign Language

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

SL 071 Elementary American Sign Language Laboratory

On the comprehensive conversation/interview assessment students will demonstrate introductory skills on the American Sign Language Conversation Rubric. After analyzing information, collective course performance shall be discussed.

SL 072 Elementary American Sign Language Laboratory

On the comprehensive conversation/interview assessment students will demonstrate elementary skills on the American Sign Language Conversation Rubric. After analyzing information, collective course performance shall be discussed.

SL 073 Intermediate American Sign Language Laboratory

On the comprehensive conversation/interview assessment students will demonstrate advanced elementary skills on the American Sign Language Conversation Rubric. After analyzing information, collective course performance shall be discussed.

SL 074 Intermediate American Sign Language Laboratory

On the comprehensive conversation/interview assessment students will demonstrate intermediate skills on the American Sign Language Conversation Rubric. After analyzing information, collective course performance shall be discussed.

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Course Learning Outcomes Report

SM ENG 066 Compact Diesel Engines

Student will properly time the fuel injection pump to the crankshaft.
Student will determine if a crankshaft is reusable

SOCIO 001A Introduction to Sociology

Students will compare developed and underdeveloped countries (their different social structures) and will apply world systems theory to explain the differences between these two types of countries/structures.
Students will be able to identify the processes of social change such as globalization and McDonaldization.
Students will be able to apply two of the main theoretical views in sociology--functionalism and conflict theories--to understanding current social issues.

SOCIO 001B Problems of a Changing Society

Student will be able to distinguish between individual and structural causes of social problems.
Student will be able to write a letter to an elected official about a social problem they are concerned about.

SOCIO 005 Sociology of the Family

Students will demonstrate how family structures are determined by economic and cultural factors.
Students will demonstrate knowledge of how race, class, and gender affect families.
Students demonstrate knowledge of the social construction of the family.

SOCIO 015 Selected Topics: Sociology

Will vary by topic course developed.

SOCIO 020 American Immigrant Experience

Students will write an assignment based on an interview with an immigrant and apply theoretical concepts such as prejudice, discrimination and culture shock
Students will write a policy paper to the president on an immigration issue affecting the United States. They will summarize the issue, present relevant background information, alternative actions and a proposed solution.

SOCIO 027 Gender in Contemporary Society

Students will be able to identify the causes and goals of gender-related social movements (the first two "waves" of the Women's Movement, for example).
Students will be able to apply two of the main theoretical views in sociology--structural functionalism and conflict theories--to understanding problems related to traditional gender roles in our society.

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SOCIO 033 Social Inequality in the United States

Students will be able to define racial, ethnic, and class stratification by identifying their key characteristics with regard to membership (achieved vs. ascribed), mobility, and social justifications.

Students will be able to identify how gender roles and sexism are connected to economic factors. They will be able to understand how gender and gender inequality varies historically and cross-culturally as related to economic forces.

Students will explain Marx's ideas on class conflict, dialectical materialism, false consciousness, and class consciousness.

SOCIO 045A Beginning Field Practicum

Students will show knowledge of how to establish clear expectations for establishing professional ethics and boundaries when working with clients.

Students will be able to identify the biological, sociological and psychological factors related to counseling issues.

Student will be able to identify community resources and services for clients.

SOCIO 045B Intermediate Field Practicum

Student will apply and enhance counseling skills.

Student will have enhanced ability to assess, diagnose, and provide appropriate diagnosis, treatment and recovery interventions.

Students will show knowledge of how to establish clear expectations for establishing professional ethics and boundaries when working with clients.

SOCIO 050H Special Studies: Sociology

The student and the supervising instructor will develop a course of studies not offered in the usual curriculum but will advance the student's abilities and knowledge.

SP ED 015 Selected Topics: Special Education

Varies by topic.

SP ED 071 Fundamental Number Sense

Given a specific counting task, the student will correctly and efficiently perform that task.

Given a money task, student will efficiently and correctly perform the task.

SP ED 075 Assisting the Student With Disabilities

Through demonstration the student will be able to lead the visually impaired student around the campus in a safe and appropriate manner. Through demonstration the student will be able to perform proper techniques with students with disabilities in adapted physical education courses.
Course Learning Outcomes Report

SP ED 076 Special Topics in Special Education
Will vary by topic course developed.

SP ED 076C Strategies for College Success
The student applies an appropriate study skill and/or memory technique for a given situation.
Given a scenario involving campus academic policy and/or Student Code of Conduct, the student identifies correct and appropriate behaviors.
The student will be given a scenario for maneuvering the Delta College experience in which the student is required to register online, as well as add/drop a class; to make an online appointment with a DSPS or guidance counselor; to use My Delta Portal to read/send email.

SP ED 082 Computer Access Evaluation for the Student with Disabilities
The student will discuss their learning problems.
The student will discuss their learning goals.
Identification of assistive technology that may support the student's learning goals and purpose of using a computer.
The student will discuss his/her reasons for wanting to use a computer.
The identification of steps to learn how to use and integrate an assistive technology into his/her learning style.

SP ED 087A Screen Reader Application
The student will be able to identify and utilize the basic functions of a screen reader to access electronic text.
The student will have improved reading intelligibility and comprehension.
The student will be able to edit written text in a word processor, while using a screen reader.
The student will be able to identify screen reader characteristics that support learnability.
The student will be able to read electronic text prepared novels, textbooks, and articles.
The student's speed of reading will get faster and begin to reach levels of fluency.
The student will show improved affect toward synthesized speech used in a screen reader.

SP ED 087B Screen Reader Application -Section B
Read materials that are based on diverse cultural, political, or other content.
Create audio files of text materials that can be played on an MP3 or CD player.
Create electronic text from printed text, find and order electronic text on the Internet, and check out electronic text books from an online library
Complete a multiple choice and/or essay test using a screen reader.
Identify and read electronic text materials on Web pages using a screen reader.
Use a screen reader with a word processor to complete assignments.
Use a screen reader to read textbook reading assignments.
Compare competitive screen reader products according to their features, cost, and learnability.
Course Learning Outcomes Report

SP ED 122 Sign Language for Students With Special Needs

Given a specific phrase, the student will correctly and efficiently perform the correct gestural language.
Given a sign language internet website, the student will perform the exact gesture with precise facial expression and body movement.

SP ED 131 Reading Skills for Persons With Disabilities

Given level 10, of the series "Reading Milestones", the student will qualify for an additional reading series and novel of choice.

SP ED 132 Survival Mathematics Skills for Persons With Disabilities

Students understand and can accurately complete 75% of the basic mathematical problems required for successful independent and semi-independent living skills.
The student will insert a daily calendar note and math tip in their Delta planner.

SP ED 133 Money Management for Persons with Disabilities

Students will effectively use a given amount of money for a simulated daily living skill planner.
The student will be able to create a budget to monitor their monthly finances.

SP ED 144 Janitorial Technology Training

Students will acquire the skills necessary to perform successfully in a janitorial position.

SP ED 146 Office Technology

Student will acquire the skills necessary to perform the tasks needed in an office setting.

SP ED 151 Employment Readiness Training

Students will be able to demonstrate basic interview skills and have acquired the ability to answer typical interview questionnaires.

SP ED 159 Health Education for Persons With Disabilities

Student will create and critique a meal plan for themselves and a friend.
Student will create a three ring notebook with dividers specifying support resources for personal health management.

SPAN 001 Elementary Spanish

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.
Students will demonstrate clear and precise oral expression in the target language through a conversation/ interview in the target language with appropriate grammatical accuracy and cultural awareness at the novice level.

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SPAN 001A Spanish for Fluent Speakers

Cultural understanding. Students will demonstrate cultural understanding by comparing different cultures and language dialects of the Spanish-speaking world. Students will show awareness of varieties of Spanish spoken in the United States.

Communicative range/ expansion of registers. By being exposed to a variety of types of texts and contexts for using Spanish, students will expand their communicative range to include different registers: formal, informal, literary, academic, journalistic, etc.

Language awareness. Students will differentiate between standard and non-standard varieties of Spanish, and understand that the use of the different varieties depends on the social and cultural context. Students will reflect on their own experience as Spanish-speakers.

Grammar and spelling. The students will use grammar and spelling for accurate communication. This includes improving spelling in Spanish, as well as showing mastery of verb forms and other grammar topics.

Speaking. Students will build their speaking skills in Spanish through oral presentations, group activities or interviews.

Reading. By reading a variety of media sources in Spanish, students will develop literacy skills in Spanish, including expanding their vocabulary.

Writing. The student will develop skills in writing standard Spanish, and will produce writing in a variety of genres which may include: analytical essays, personal essays, summaries, reviews, short stories, poems, interviews, letters, articles or other types of writing.

SPAN 002 Elementary Spanish

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the elementary level.

SPAN 002A Spanish for Fluent Speakers

Through oral presentations or interviews, students will demonstrate accurate speaking in standard Spanish, with minimal interference from English.

The student will demonstrate advanced skills in writing standard Spanish, and will produce writing in a variety of genres which may include: analytical essays, personal essays, summaries, reviews, short stories, poems, interviews, letters, articles or other types of writing.

Students will identify different varieties, dialects and registers of Spanish (formal & informal registers, regional varieties and dialects), and show understanding of the relationship between culture and language.

Grammar: The students will use grammar and spelling for accurate communication. This includes improving spelling in Spanish, as well as showing mastery of advanced verb forms and other grammar topics, including the subjunctive.
Course Learning Outcomes Report

SPAN 003 Intermediate Spanish

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/ interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-low level.

SPAN 004 Intermediate Spanish

Students will demonstrate clear and precise oral expression in the target language through a conversation/ interview in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the intermediate-high level.

SPAN 005 Advanced Spanish Introduction to Literature

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the advanced level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the advanced level.

SPAN 006 Advanced Spanish Introduction to Literature

Students will demonstrate clear and precise written expression in the target language with appropriate grammatical accuracy and cultural awareness at the superior level.

Students will demonstrate clear and precise oral expression in the target language through a conversation/interview in the target language with appropriate grammatical accuracy and cultural awareness at the superior level.

SPAN 036A Introductory Spanish Conversation

Students will demonstrate the ability to make short statements that can be understood by native speakers accustomed to dealing with non-native speakers.

Students will demonstrate the ability to ask a number of basic, appropriate questions as well as answer them.

Students will converse in the present tense on topics related to self and family, routine activities, personal preferences and immediate needs, such as ordering food and making simple purchases.

Students will be able to engage in basic and culturally appropriate conversations in Spanish in straightforward social situations.

Students will demonstrate the ability to use communicative strategies such as circumlocution and asking for clarification to overcome lexical gaps.
Course Learning Outcomes Report

SPAN 036B Beginning Spanish Conversation

Students will demonstrate the ability to use communicative strategies such as circumlocution and asking for clarification to overcome lexical gaps.

Students will be able to converse on a range of topics such as work, school, home, family, friends, leisure activities, and to a lesser degree, events of current, public or personal interest.

Students’ speech can be understood by native speakers unaccustomed to dealing with non-native speakers.

Students’ speech will demonstrate paragraph-length discourse.

Students will develop linguistic awareness that will help them avoid using false cognates and literal translation.

Students will demonstrate ability to narrate in major time frames: past (using preterit and imperfect), present and future (using the periphrastic future with the verb ?ir?).

SPAN 038A Special Assignment: Listening

Students will be able to understand the spoken target language in different oral forms, genres and levels of narration.

SPAN 038B Special Assignment: Pronunciation

Students will be able to recognize and (re)produce the phonemes, intonation, stress, pitch, and juncture patterns of the target language.

SPAN 038C Special Assignment: Reading

Outcome: Students will be able to engage in basic and culturally appropriate conversations in Spanish. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

SPAN 038D Special Assignment: Writing

Outcome: Students will be able to write in basic and culturally appropriate sentences in Spanish. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

SPAN 050H Special Studies: Spanish

The student will demonstrate advanced skills with the language, beyond the intermediate level.

The student will develop and demonstrate research skills appropriate to the topic selected.

The student will analyze and examine the selected topic in depth, showing critical thinking skills.

SPAN 071 Spanish in the Workplace

Students will be able to speak, hear, read and write simple phrases and sentences in Spanish.

Students will demonstrate an understanding of the diversity of the Spanish-speaking world.

Students will show communicative competence with skills such as knowing how to speak in both formal and informal contexts, knowing how to make polite requests and show courtesy, and understanding lexical variations among Spanish-speaking cultures.

Students will acquire and use vocabulary relevant to their workplace.

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SPAN 075 Selected Topics: Spanish

Students will demonstrate linguistic skills and/or cultural understanding related to the Spanish language and cultures of Spanish-speakers.

TAG 038A Special Assignment: Listening

Outcome: Students will be able to listen basic and culturally appropriate sentences in Tagalog. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 038B Special Assignment: Pronunciation

Outcome: Students will be able to write in basic and culturally appropriate sentences in Tagalog. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 038C Special Assignment: Reading

Outcome: Students will be able to read and write in basic and culturally appropriate sentences in Tagalog. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 038D Special Assignment: Writing

Outcome: Students will be able to write in basic and culturally appropriate sentences in Tagalog. They will successfully introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 051 Elementary Tagalog

Students will be able to engage in basic and culturally appropriate conversations in Tagalog. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 052 Elementary Tagalog

Students will be able to engage in basic and culturally appropriate conversations in Tagalog. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

TAG 053 Elementary Tagalog

Students will be able to engage in basic and culturally appropriate conversations in Tagalog. They will be able to successfully introduce themselves, talk about their interests, hobbies, health, customs and traditions, etc. in a culturally appropriate way.
Course Learning Outcomes Report

TAG 054 Elementary Tagalog

Students will be able to engage in basic and culturally appropriate conversations in Tagalog. They will be able to successfully introduce themselves, talk about their interests, hobbies, health, customs and traditions, etc. in a culturally appropriate way.

TAG 075 Selected Topics: Tagalog

Will vary by topic course developed.

VIET 051 Elementary Vietnamese

Students will be able to listen to authentic audio materials in Vietnamese at the novice level and show a basic understanding of them.

Students will be able to read simple texts in Vietnamese at the elementary level and show a basic understanding of them.

Students will demonstrate the ability to use the writing system in Vietnamese, including the alphabet and tone marks, at a novice level.

Students will be able to engage in basic and culturally appropriate conversations in Vietnamese. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

Students will show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which Vietnamese is spoken.

VIET 052 Elementary Vietnamese

Students will demonstrate the ability to use the writing system in Vietnamese, including the alphabet and tone marks, at a novice-mid level.

Students will be able to read simple texts in Vietnamese at the elementary level and show a basic understanding of them.

Students will be able to listen to authentic audio materials in Vietnamese at the novice level and show a basic understanding of them.

Students will show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which Vietnamese is spoken.

Students will be able to engage in basic and culturally appropriate conversations in Vietnamese. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

VIET 053 Elementary Vietnamese

Students will show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which Vietnamese is spoken.

Students will be able to listen to authentic audio materials in Vietnamese at the novice-mid level and show a basic understanding of them.

Students will be able to read simple texts in Vietnamese at the elementary level and show a basic understanding of them.

Students will demonstrate the ability to use the writing system in Vietnamese, including the alphabet and tone marks, at a novice-mid level.

Students will be able to engage in basic and culturally appropriate conversations in Vietnamese. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.
Course Learning Outcomes Report

VIET 054 Elementary Vietnamese

Students will be able to engage in basic and culturally appropriate conversations in Vietnamese. They will be able to introduce themselves, talk about their academic and everyday life (classes, interests, family, typical activities) and ask questions on these topics in a culturally appropriate way.

Students will be able to read simple texts in Vietnamese at the elementary level and show a basic understanding of them.

Students will demonstrate the ability to use the writing system in Vietnamese, including the alphabet and tone marks, at a novice-high level.

Students will be able to listen to authentic audio materials in Vietnamese at the novice-high level and show a basic understanding of them.

Students will show cultural awareness, including an understanding of the regional, national and ethnic diversity of the areas in which Vietnamese is spoken.

VIET 075 Selected Topics: Vietnamese

Students will demonstrate linguistic skills and/or cultural understanding related to the Vietnamese language and the cultures of Vietnamese-speakers.

VOC NUR 001 Foundations of Nursing

After describing and discussing the basic concepts of the nursing process in lecture, the student will: Identify and define each component from various examples provided; Write one actual and one potential nursing diagnosis with expected outcomes from various case scenarios used. List two nursing interventions with rationales for the actual and potential nursing diagnoses developed. Develop one individualized nursing diagnosis with expected outcomes and two nursing interventions with rationales on their assigned patient/client in the clinical laboratory. According to the following standard: identifying unusual findings during the basic health assessment; clustering data in order to reveal common themes among the unusual findings; Prioritize data from most urgent to least urgent if required.

VOC NUR 002 Introduction to Medical and Surgical Nursing

After viewing the video on Medication Administration, describing and discussing the principles of safe medication administration, the student will: 1) Recall and recite the seven (7) rights of administration; 2) list the three steps when pouring a medication; 4) Calculate a dosage from a sample problem using Dimensional Analysis; 4) Document administration according to text guidelines in the a Medication Administration (MAR) form.

VOC NUR 003 Obstetrical Nursing

By the end of the course, the VN student will: 1. Successfully passing exams with a 72% or higher. 2. Attending all clinical requirements; 3. Submitting a postpartum nursing care plan study.

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VOC NUR 004 Pediatric Nursing
By the end of the course, the student will be able to provide wholistic nursing care using all the components of the nursing process.

VOC NUR 005 Intermediate Medical/Surgical Nursing
At the completion of the nine week session, the student will develop a nursing care plan on an assigned client/patient.

VOC NUR 006 Advanced Medical/Surgical Nursing
At the end of the course, the student will demonstrate knowledge by:
1. Successful passing of mid-term and final exam;
2. Successful passing of Comprehensive ATI;
3. Submitting a written Teaching Project with self-evaluation of performance;
4. Oral presentation of Teaching Project.

VOC NUR 101 Review of Foundations of Nursing
After describing and discussing the basic concepts of the nursing process in lecture, the student will:
Identify and define each component from various examples provided;
Write one actual and one potential nursing diagnosis with expected outcomes from various case scenarios used.
List two nursing interventions with rationales for the actual and potential nursing diagnoses developed.
Develop one individualized nursing diagnosis with expected outcomes and two nursing interventions with rationales on their assigned patient/client in the clinical laboratory.
According to the following standard: identifying unusual findings during the basic health assessment; clustering data in order to reveal common themes among the unusual findings; Prioritize data from most urgent to least urgent if required.

VOC NUR 102 Review of Beginning Medical-Surgical Nursing
At the end of the session, the student will be able to:
1) Recite the six (6) Rights of Medication Administration.
2) Calculate medication dosage using Dimensional Analysis with 100% accuracy.
3) Administer the medication to their assigned client in the Skills Laboratory.

VOC NUR 103 Review of Obstetrical Nursing
Upon successful completion of the course, the student will be able to demonstrate knowledge by:
1. Successfully passing exams with a 72% or higher.
2. Attending all clinical requirements;
3. Submitting a postpartum nursing care plan study.

VOC NUR 104 Review of Pediatric Nursing
By the end of the course, the VN student will have demonstrated knowledge by:
1. Successfully passing exams with a 72% or higher.
2. Attending all clinical requirements;
3. Submitting a postpartum nursing care plan study.
VOC NUR 105 Review of Intermediate Medical Surgical Nursing

Outcome: At the completion of the nine week session, the student will develop a nursing care plan on an assigned client/patient.

VOC NUR 106 Review of Advanced Medical Surgical Nursing

At the end of the course, the student will demonstrate knowledge by: 1. Successful passing of mid-term and final exam; 2. Successful passing of Comprehensive ATI; 3. Submitting a written Teaching Project with self-evaluation of performance; 4. Oral presentation of Teaching Project.

WELDING 010 Basic Welding for the Trades

The student will demonstrate proper tip size and pressure settings for oxy-acetylene welding and brazing on mild steel thicknesses of 1/16 to 1/2 inches. This will be evaluated using a five-point checklist devised from standards as outlined by the American Welding Society. 50% of students will score at the acceptable level of the standards.

The student will demonstrate safe operation of welding equipment in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will complete this exercise at the acceptable level of the standards.

The student will demonstrate safe welding and cutting practices using oxy-acetylene and shielded metal arc welding in a practical lab exercise. This will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this exercise at the introductory level of the checklist.

WELDING 088A Introductory Trade Welding

The student will demonstrate introductory blueprint reading knowledge through lab exercises using symbols in accordance with American Welding Society publication 2.4 "Standard Symbols for Welding, Brazing, and Non-Destructive Examinations". This will be evaluated using a checklist derived from this standard and the Blueprint Reading text. 80% of the students will complete this outcome with 90% accuracy.

The student will demonstrate welding practices using oxy-acetylene and shielded metal arc welding in a practical lab exercise. This will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this exercise at the introductory level of the checklist.

The student will demonstrate proper tip size and pressure settings for oxy-acetylene welding, cutting and brazing on a practical lab exercise. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this outcome at the acceptable level of the checklist.

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will completed this outcome with 100% accuracy.

WELDING 088B Beginning Trade Welding

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will completed this outcome with 100% accuracy.

The student will demonstrate welding and cutting practices using oxy-acetylene and shielded metal arc welding in a practical lab exercise. This will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this exercise at the introductory level of the checklist.

The student will demonstrate beginning blueprint reading knowledge through lab exercises using symbols in accordance with American Welding Society publication 2.4 "Standard Symbols for Welding, Brazing, and Non-Destructive Examinations". This will be evaluated using a checklist derived from this standard and the Blueprint Reading text. 80% of the students will complete this outcome with 90% accuracy.

The student will demonstrate proper set up procedures for E-6011, E-6013 and E-7018 welding electrodes on a practical lab exercise. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will completed this outcome at the beginning level of the checklist.

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WELDING 088C Intermediate Trade Welding

The student will demonstrate proper set up procedures for ER4045 filler on 1/8” aluminum plate lap weld on a practical exercise. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this outcome at the intermediate level of the checklist.

The student will demonstrate intermediate blueprint reading knowledge through lab exercises using symbols in accordance with American Welding Society publication 2.4 "Standard Symbols for Welding, Brazing, and Non-Destructive Examinations". This will be evaluated using a checklist derived from this standard and the Blueprint Reading text. 80% of the students will complete this outcome with 90% accuracy.

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will complete this outcome with 100% accuracy.

The student will demonstrate welding practices using gas metal arc welding in a practical lab exercise. This will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this exercise at the intermediate level of the checklist.

WELDING 088D Advanced Trade Welding

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will complete this outcome with 100% accuracy.

The student will demonstrate proper set up procedures for ER4045 filler on 1/8” aluminum plate lap weld on a practical lab exercise. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this outcome at the advanced level of the checklist.

The student will demonstrate advanced blueprint reading knowledge through lab exercises using symbols in accordance with American Welding Society publication 2.4 "Standard Symbols for Welding, Brazing, and Non-Destructive Examinations". This will be evaluated using a checklist derived from this standard and the Blueprint Reading text. 80% of the students will complete this outcome with 90% accuracy.

The student will demonstrate welding practices using gas tungsten arc welding in a practical lab exercise. This will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this exercise at the advanced level of the checklist.

WELDING 089A Shielded Metal Arc Welding/Stick (SMAW)

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will complete this outcome with 100% accuracy.

The student will demonstrate safe welding practices using shielded metal arc welding. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will complete this outcome at the acceptable level of the checklist.
WELDING 089B Gas Metal Arc Welding (MIG)

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will completed this outcome with 100% accuracy.

The student will demonstrate safe welding practices using gas metal arc welding. This will be evaluated by using a checklist based on American Welding Society (AWS) standards. 50% of students will completed this outcome at the advanced level of the checklist.

WELDING 089C Gas Tungsten Arc Welding (GTAW) Welding

The student will demonstrate proper set up procedures for ER4045 filler on 1/8” aluminum plate lap weld. The student will be evaluated using a checklist based on American Welding Society (AWS) standards. 50% of students will completed this outcome at the advanced level of the checklist.

The student will demonstrate safe welding practices using tungsten arc welding. This will be evaluated using a checklist of AWS standards. 90% of students will completed this outcome with 100% accuracy.

The student will demonstrate safety requirements for welding processes in a practical lab exercise in accordance with American Welding Society (AWS) standards. This will be evaluated using a checklist of AWS standards. 90% of students will completed this outcome with 100% accuracy.