COURSE SLO REPORT

COURSE SLO STATEMENTS - INDUSTRY AND TECHNOLOGY DIVISION

Course ID	Course Name	Course SLO Title	Course SLO Statement
ACR 20	Solar Energy Applications-Photovoltaics and Solar Thermal	SLO #1 Parts of Solar Thermal Units	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories by naming the parts of a Solar Thermal unit in correct sequence and know how a Solar Thermal unit converts solar energy into hot water. Naming the parts of a Photovoltaic (PV) unit in correct sequence and know how a PV unit converts solar energy into electrical energy.
		SLO #2 Solar Energy Application	Students completing this course will apply their knowledge to the proper application of solar energy and solar thermal systems.
		SLO #3 Solar System Operation & Installation	After completing this course student will gain the basic skills necessary to evaluate solar systems operation and installation requirements.
ACR 21	Air Conditioning Fundamentals	SLO #1 Window Air Conditioning Manifold Gauges	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories placing refrigeration manifold gauges on a window air conditioning unit and check for correct charge of an operating system based on the type of refrigerant used in the system.
		SLO #2 Component Brazing	After completion of this course, students will acquire the skills necessary to successfully braze refrigeration components to meet basic industry standards.
		SLO #3 Basic HVACR Service	After completion of this course, students will have the knowledge necessary to perform basic HVACR service in a safe manner.
ACR 22	Basic Refrigeration	SLO #1Refrigeration Manifold Gauges	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories placing refrigeration manifold gauges on a refrigerator and check for the correct charge of an operating refrigerator based on the type of refrigerant used in the system.
		SLO #2 Soldering & Brazing	After completion of this course, students will apply their knowledge to soldering and brazing to copper to copper and copper to steel components within the refrigeration system.
		SLO #3 Tools of the Trade	Students completing this course will apply their knowledge to the proper use of tools of the HVACR trade.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACR 23	Commercial Refrigeration Applications	SLO #1 Proper Freezer Temperatures	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to an operating low temperature walk-in freezer. Students will check proper freezer temperatures, amperage draw on the operating compressor, subcooling and superheat temperatures.
		SLO #2 Special System Components	Students completing this course will apply their knowledge to the application, service and testing of special refrigeration system components.
		SLO #3 Troubleshooting with Diagrams & Schematics	Students completing this course will apply their knowledge to service and troubleshooting using electrical diagrams and schematics specific to commercial refrigeration.
ACR 25	Energy Efficient Residential, Commercial and Industrial Air Conditioning	SLO #1Taking Readings and Applying Data	Taking Readings and Applying Data After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to an operating 2 ton 13 SEER Air Conditioning Package Unit. Students will take air temperature readings, compressor amperage draw, subcooling and superheat readings and apply the data to the appropriate lab exercise.
		SLO #2 Human Senses Function Test	After reading the textbook and participating in classroom discussions, students will apply their knowledge of how to check an A/C unit by using their senses to see if it operating close to what it should be. Instruments and tools will determine if the A/C units are operating correctly. These are quick checks to see if a unit is not operating.
		SLO #3 Charging an A/C Unit	After reading the textbook and participating in classroom discussions, students will apply their knowledge of how to properly charge an A/C unit.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACR 27	Heating Technologies	SLO #1 High Efficiency Gas Furnaces	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to an operating High Efficiency Gas Furnace. Students will take gas pressure readings with a manometer and record the readings with the appropriate lab assignment and compare the reading with manufacturer's specifications.
		SLO #2 Strip-Heating System Ladder Diagram	After reading the textbook and participating in classroom discussions, students will apply their knowledge of electric strip-heating system. Students will draw a ladder diagram of an electric strip-heating system. They will collect and analyze data, and present the sequence of operations of the system.
		SLO #3 HVAC Charging Checklist	After reading the textbook and participating in classroom discussions, students will apply their knowledge of air source heat pump systems to collect data on the unit using a HVAC charging checklist.
ACR 30	Electric Controls	SLO #1 Control Boards	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to an operating Air Conditioning Control Board. Students will check an A/C wire schematic for proper wiring of the board and energize the board taking electrical readings at each control device.
		SLO #2 Electrical Board Ladder Diagram, VOM Check	After reading the textbook and participating in classroom discussions, students will apply their knowledge to draw a ladder diagram from an electrical board that simulates an air conditioning system, know the parts of the air conditioning system and use a VOM to check each part.
		SLO #3 Electrical Board Troubleshooting	After reading the textbook and participating in classroom discussions, students will apply their knowledge of a ladder diagram to diagnose and troubleshoot the wiring and operation of an electrical board.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACR 32	Fundamentals of Pneumatic Controls	SLO #1 Calibrating Thermostats	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories to a pneumatic thermostat. Student will calibrate the thermostat to the manufacturer's specification and check the proper operation of thermostat and the pneumatic actuator.
		SLO #2 Hot Water Heating System	After reading the textbook and participating in classroom discussions, students will apply their knowledge of pneumatics to gather data and analyze a pneumatic controlled hot water heating system and know the sequence of operations of the heating system.
		SLO #3 Electric-Pneumatic Systems	After reading the textbook and participating in classroom discussions, students will apply their knowledge of electric-pneumatic systems to collect data and analyze data from a schematic diagram and present the sequence of opertions of the system.
ACR 34	HVAC Customer Service	SLO #1 Irate Customer	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate communication skills to calm down an irate customer who is complaining that it took too long for the technician to arrive and it is very hot due to an air conditioning system not cooling
		SLO #2 Air Conditioning Estimate	After participating in classroom discussions, students will apply their knowledge of appropriate communicating skills to estimate an air conditioning job with labor, parts, and taxes including an explanation of all costs to the customer.
		SLO #3 Selling a PM Plan	After participating in classroom discussions, students will apply their knowledge of appropriate communicating to sell a PM plan to a customer with all the positives of a PM. Students must know the difference in plans for the different seasons.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACR 5	Electrical Applications	SLO#1 Troubleshooting Units	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories by troubleshooting a faulty air conditioning unit with the use of a wiring schematic and voltmeter. After finding the problem they will run the unit and make sure it is operating at the manufacturer's specifications.
		SLO#2 Simple Wiring Diagrams	After completion of this course students will have the basic skills necessary to read and interpret simple wiring diagrams in order to effectively troubleshoot and repair simple HVACR control and power related problems.
		SLO#3 HVACR Systems and Components	Upon completion of this course, students will apply knowledge gained on diagrams and component operation to identify HVACR systems and components sequencing and operating conditions.
ACR 6	Refrigeration and Air Conditioning Control Systems	SLO #1 Electrical Control Relays	After reading the textbook and participating in class discussions, students will apply their knowledge of appropriate lab practices, concepts and theories by observing and testing the proper operation of an air conditioning electrical control relay.
		SLO #2 Microprocessor Controls	Students completing this course will gain the knowledge necessary to perform basic testing of HVACR system microprocessor controls.
		SLO #3 Ladder & Schematic Diagrams	Upon completion of this course students will apply the basic knowledge and skills learned to service and troubleshoot microprocessor controls using ladder and schematic diagrams.
ACRP 1A	Introduction to Automotive Collision Repair	SLO #1 OSHA Regulations	Given an in-class writing task based upon assigned readings and classroom discussions, students will be able to identify the correct respirator for a hypothetical proposed situation, and define and explain the related OSHA regulations that apply to the situation. (SLOs revised).
ACRP 1B	Collision Repair Equipment and Welding Techniques	SLO #1 MIG Welder	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, spot, reinforced butt) on automotive gauge steel according to I-CAR standards.
		SLO #2 Panel Misalignment	Students will be able to identify panel misalignment due to improper installation, prior damage, and/or improper repair and choose the proper repair steps to correct the misalignment.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACRP 1C	Major Collision Analysis and Repair	SLO #1 Measuring Vehicle Damage	Students will be able to identity, differentiate between, and measure direct and indirect vehicle damage. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
		SLO #2 Types of Frame Damage	Given access to a damaged vehicle, students will be able to recognize one or more of the five types of frame damage and will be able to create a written repair strategy to fix the damage.
ACRP 1D	Automotive Component Systems Analysis and Repair	SLO#1 Plastic Part's Type Codes	Students will be able to locate a plastic part's type code and choose the appropriate repair method, tools, and materials. Students will then be able to apply the method and perform the repair
		SLO #2 Suspension Components	Students will be able to identify damage to suspension components by measuring and visual inspection of a damaged vehicle. Students will be able to use proper nomenclature to write an informal estimate of what vehicle parts will need to be repaired and what parts need to be replaced.
ACRP 20	Automotive Collision Investigation	SLO #1 Restraint Systems	Students will be able to recognize, name, and diagnose damage to multiple types of occupant restraint systems including active restraints (seat belts) and passive restraints (automated seat belts, airbags).
ACRP 22	Automotive Repair Fraud	SLO #2 Impact Hypothesis	Students will be able to analyze an accident-damaged vehicle and formulate an impact hypothesis.
		SLO#1 Examining Accident Scenes	Students will be able to examine an accident scene (in person or via video/digital media) and formulate conclusions as to the details of the accident based on proper detection and investigation procedures and collection of evidence.
ACRP 24	Automotive Collision Analysis	SLO #1 Point of Impact and Secondary Damage	Students will be able to analyze an accident-damaged vehicle and from the collision deformation and damage to crush zones determine the point of impact and identify secondary damage.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ACRP 26	Automotive Accident Reconstruction	SLO #1 Occupant Dynamics	Students will be able to predict and evaluate vehicle occupant dynamics in given collision scenarios.
		SLO #2 Photography or Computer Modeling	Students will be able to properly document vehicle damage using photography and/or computer modeling software for analysis of accident dynamics.
ACRP 2A	Basic Automotive Painting - Refinishing	Refinishing SLO #1 Mixing Primer	Students will be able to mix a given quantity of primer using the correct ratio and will be able to adjust, operate, and clean an HVLP primer gun.
		Refinishing SLO #2 Differentiating Repairs	Students will be able to differentiate between full panel repairs, spot repairs, and blend panels and be able to prepare each for refinishing using the correct tools and procedures.
ACRP 2B	Automotive Refinishing Materials and Equipment	SLO #1 Chemicals and Additives	Students will be able to analyze a given repair job and choose the correct chemicals and additives needed for the job based on weather conditions, job scope, job budget, and job deadline.
		SLO#2 Spray Booth Operation	Students will be able to set up, operate, and shut down a spray booth according to outside temperature and humidity, and the vehicle job and chemicals being sprayed.
ACRP 2C	Automotive Refinishing Applications	SLO #1 Color Matching and Spot Blends	Students will be able to choose the proper color for color match and perform a spot blend on a repaired sample panel.
		SLO #2 Two-Tone Plastic Bumpers	Students will be able to prepare and refinish a flexible two-tone plastic bumper using the correct chemicals and production shop procedures.
ACRP 6	Automotive Collision Repair Applications	SLO #1 Setting Up and Using MIG Welder	Students will be able to set up and use a MIG welder properly and safely to perform three welds (lap, spot, reinforced butt) according to I-CAR standards
		SLO #2 Repair Plan	Students will be able to examine a damaged panel and formulate a repair plan that includes choosing the correct tools and abrasive grits for each step of the process from initial metalwork to preparing the panel for primer and refinish
AJ 100	Intro to Admin of Justice	SLO #1 Components of the Criminal Justice System	By the end of this course, students will understand the concept of the criminal justice system and be able to identify its various components.
		SLO #2 Structure of the Police Agency	By the end of the course, student will be able to describe the basic structure of a policing agency and explain its component functions such as patrol, criminal investigation and administrative support functions.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
AJ 103	Criminal Law I	SLO #1 Corpus Delecti	After having received instruction in the development, construction and application of criminal law, completion of textbook readings, participation in classroom discussions, successful students in AJ 103 will be able to search, find and explain the elements of any criminal statute and describe the necessary "corpus delecti" as part of said statute.
AJ 106	Criminal Justice Recruit/Slctn	SLO #2 Oral Interviews	Successful students, following instruction and practice, will participate in an oral interview and communicate in a clear and organized manner, answering hypothetical problems using logic and correct legal standards.
AJ 107	Intro to Corrections	SLO #1 Role of Corrections	After receiving instruction, reading materials and participating in class discussions, successful students in AJ 107, Introduction to Corrections will be able explain the role that corrections has within the criminal justice system and identify the specific functions within that role and explain how those functions operate.
AJ 109	Intro Police Patrl Procdr	SLO #1 Patrol Functions	Given instructions provided and concepts demonstrated, successful students will be able to list, describe and demonstrate the following patrol functions: Preparing a patrol shift; investigating and documenting complaint investigation, conducting and document field interviews, including recognizing and properly utilizing reasonable suspicion and/or probable cause standards as articulated by the 4th amendment of the US constitution, explain the essential constitutional rules governing searches and seizures, and describing ethical considerations as they relate to the performance of field police work.
AJ 111	Criminal Investigation	SLO # 2 Legal Concepts	Successful students will also be able to explain and apply the legal concepts of corpus delecti, modus operandi, legal rules of evidence, such as probable cause, reasonable suspicion, hearsay evidence and apply them to a hypothetical fact situation. Successful students will also be able to narrate the elements and facts of a criminal investigation as if they were testifying to the investigation in a criminal trial.
AJ 115	Community/Human Relations	SLO #1 Power Groups	Given instruction and participation in discussions on the concepts of formal and informal power groups, students will successfully compare and contrast these concepts and correctly identify the similarities and differences.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
AJ 126	Juv Delinq/Legal Procdrs	SLO #1 Components of Juvenile System	Given classroom instruction, review of text and materials and classroom discussions, students in AJ 126 will explain how the components of the juvenile justice system function.
AJ 130	Criminal Procedures	SLO #1 Arrest to Verdict	Given instruction and participation in discussions on the criminal justice process from point of arrest to jury verdict, students will be able to list and explain each step of this process. Furthermore, students will be able to demonstrate how the fundamental American legal principles of burden of proof and standard of proof apply in a criminal trial.
AJ 131	Criminal Evidence	SLO #1 Rules of Evidence	Given an in-class writing task based on assigned readings and classroom discussions, students will be able to locate and identify a rule of evidence in a hypothetical fact situation, define and explain that rule, and correctly apply that rule to that fact situation.
AJ 132	Crime Scene Investigation	SLO #1 Evidence Items	Given a set of instructions, facilitated discussions, classroom lectures, presentations and scenario training on the role of the crime scene investigator, in a hypothetical situation, students will be able to recognize evidence items and with no factual errors and using the correct techniques prepare a documentation of that of the crime scene and the scene investigation.
		SLO #2 Crime Scenes	Following instruction, review of written handouts, demonstration and practice, students in AJ 132, Crime Scene Investigation will be able to accomplish the following: 1. Describe how to recognize, identify, protect and manage a crime scene. 2. Describe proper techniques in searching, locating, collecting and packaging evidence in a crime scene. 3. Documenting crime scene evidence using court acceptable language and specificity with respect to describing the item, location found and collection methods. 4. Describe automated data bases available to search for offenders using evidence such as fingerprints or evidence with DNA materials on them. 5. Explain crime lab techniques used to match evidence with submitted samples/exemplars.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
AJ 133	Fingrprnt Class/Invstgtn	SLO #1 Fingerprint Fundamentals	Given instruction, demonstration and practice, students enrolled in AJ 133 will: Demonstrate an understanding of basic fingerprint fundamentals and terminology for classification of fingerprint cards for use of AFIS inquiries and searches, Henry Classification, NCIC classification and NCF classification. Compare and identify fingerprint to fingerprint identifications on fingerprint cards. Demonstrate and explain crime scene processing using latent print development powders; students will also explain which items should be processed in the field using powders and which items should be processed in a lab environment using latent print processing chemicals. Students will clearly document completed fingerprint tasks in such a way as to be acceptable as court submitted evidence.
AJ 134	Intro to Crime Analysis	SLO #1 Process of Crime Analysis	Given an in-class writing task based upon classroom discussions and assigned readings and classroom discussions, students will be able to explain and illustrate the process by which crime analysis is tested, evaluated and then disseminated to the personnel within the police organization who can best utilize it.
AJ 135	Report Writing	SLO #1 Recording Facts	Given a set of instructions on criminal justice report writing structure, style, format and content requirements, and given instruction on basic sentence structure, and after viewing a simulated crime fact situation, students will be able to accurately record facts from that scenario and write a grammatically correct report with no factual errors using the correct format and filling out appropriate forms completely.
AJ 15	Intro Vice/Narcotics Investgtn	SLO #1 Punishments for Drug Use and Trafficking	Using current statues in the California Health & Safety Code, Business & Professions Code, Penal Code, and the Drug Recognition Expert (DRE) program as a foundation, the student will learn definitions, criminal statues and punishments for illicit drug use and trafficking, the seven categories of drugs, and the objective symptoms of being under the influence of those drugs
AJ 170	Laws Arrest, Srch/Seizure	SLO #1 The 4th Amendment	During a course of study in AJ 170, students will be able to explain the 4th amendment including its essential elements of probable cause and search warrants requirements, and be able to apply the 4th amendment correctly and lawfully in a factual situation.
AJ 190	Law Enforcmnt Explorer Academy	SLO #1 Passing the Explorer Exam	Students in AJ-190, after receiving instruction, reading text material, observing demonstrations of various law enforcement tactics, and practicing those tactics, will successfully pass the final exam and be qualified to be a police explorer.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
AJ 49	Laws of Arrest/Firearms	SLO #1 Penal Code	Students completing a course of study in administration of justice will successfully earn a certificate/graduate/transfer to 4 year universities and will successfully compete for jobs in which they can apply legal, investigative and communicative skills acquired in the administration of justice program.
ARCH 100	An Orientation to Architecture	SLO #1Urban and Social Environment	Given lecture information, worksheet examples and in-class discussion, students will be able to demonstrate how architecture shapes the urban and social environment on global and local scales.
		SLO #2 Becoming an Architect	Given lecture information, worksheet examples and in-class discussion, students will be able to demonstrate knowledge of the education necessary, internship and licensing procedures to become a professional architect
ARCH 104	History of Western Architecture	SLO #1 Historical Periods	Given lecture information, syllabus and in-class discussion, students will be able to demonstrate the knowledge of important buildings and theories that came from the various historical periods, (ie. Gothic, Renaissance, etc.)
ARCH 119	Computer Aided Architectural Drafting	SLO #1 Commands for Producing Drawings	Given lecture information, worksheet examples, in-class discussion, and hands-on experience, students will be able to know the commands necessary to produce a set of construction drawings for a small house, using AutoCAD Architectural computer software.
		SLO #2 Graphic Techniques	Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD system; will use proper graphic techniques to complete
ARCH 121	Three-Dimensional Architectural Computer Aided Design	SLO #1 Construction Documents	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the knowledge of a parametric based computer Aided Design software enough to be able to model a building and be able to analyze it structurally and environmentally as well as create Construction Documents of the building.
ARCH 125	Advanced Three-Dimensional Architectural Computer Aided Design	SLO #1 Animating a Design	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the knowledge of a parametric based computer Aided Design software enough to be able to animate a “fly-around” and “walk-through” animated sequence of the proposed building design. BIM (Building Information Modeling) analyzing components of the software will be taught to reinforce the various structural, material and environmental conscious aspects of the design.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ARCH 150A	Architectural Drafting I	SLO #1 Lines and Lettering	Upon completion of a beginning course of study in architecture drawing, a student will develop an architectural drawing technique of Lines and Lettering to create a series of drawings.
		SLO #2 Graphic Instructions	Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD System; will use proper graphic techniques to complete instructions.
		SLO #3 Spatial Organization	Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.
		SLO #4 Graphic Technique	Given lecture explanation and graphic examples of architectural drawing line values and line types, students will correctly apply that graphic technique to their project drawings.
ARCH 150B	Architectural Drafting II	SLO #1 Two-Story House	Upon completion of this advanced course, the student will be able to draw all of the construction documents for a two story house on AutoCAD software.
ARCH 158	Structures Analysis-Timber	SLO #1 Beams and Lateral Bracing	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the knowledge of the function of structural components in residential buildings. Students will be able to calculate the size of beams, columns and lateral bracing systems of light framed wood structures.
		SLO#2 Graphic Techniques	Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD system; will use proper graphic techniques to complete
		SLO#3 Spatial Organization	Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.
ARCH 170	Architectural Graphics Techniques	SLO #1 Graphic Tools	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the ability to delineate the entourage necessary to illustrate an architectural presentation drawing. The student will be knowledgeable in the use of various graphic tools that architects use in their office to delineate presentation drawings.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ARCH 171	Architectural Three-Dimensional Illustration	SLO #1 Three Dimensional Drawings	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the ability to draw and delineate numerous three dimensional drawings such as Isometrics, Axonometrics, Obliques, One, Two and Three Point Perspectives.
		SLO#2 Graphic Techniques	Successful students, completing the Architecture Program, following instructions, supervised classroom practice using CADD system; will use proper graphic techniques to complete
		SLO#3 Spatial Organization	Successful students tracking for graduation transfer, and or employment in the architecture field, will create design drawings and design models to show spatial organization.
ARCH 172	Architectural Color Rendering Techniques	SLO #1 Color Theory and Schemes	Given lecture information, handouts and in-class discussion, students will be able to demonstrate the ability to draw and delineate architectural presentation drawings using various color mediums. The student will demonstrate knowledge of color theory and color schemes, (monochromatic, complimentary, etc.) that architectural illustrators use in various circumstances.
ARCH 179	Design or Build Studio	SLO #1 Designing and Collaborating	Upon completing the course work, students will demonstrate the ability to design a simple house and then successfully collaborate within a team to build the structure in the Lab
ARCH 199	Architecture Design Studio	SLO #1 Drawings and Written Reports	Given instruction in architectural design and concept development, students will execute in class, over five weeks, a series of drawings anda written report for a project.
ATEC 1	Intro to Auto Service	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations, the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Under Hood Inspection	The student will perform a vehicle under hood inspection and complete a Vehicle Under Hood Inspection lab sheet.
		SLO #3 Under Vehicle Inspection	The student will perform an under vehicle inspection and complete and Under Vehicle Inspection lab sheet.
ATEC 11	Brk, Suspn/Four Whl Align	SLO #1 Safety Exam	SLO #1 Safety Exam Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Brake System Inspection	The student will perform a brake system inspection on a vehicle and complete a Vehicle Brake Inspection lab worksheet.
		SLO #3 Suspension Inspection	The student will perform a front and rear suspension inspection on a vehicle and complete a Vehicle Suspension Inspection lab sheet.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ATEC 14	Brakes	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Brake Inspection	The student will perform a brake system inspection on a vehicle and complete a Vehicle Brake Inspection lab sheet.
		SLO #3 Drum Brake Service & Adjustment	The student will perform a drum brake system service and adjustment and complete a Vehicle Brake Service lab sheet.
ATEC 16	Suspension/Four Whl Align	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Suspension Inspection	The student will perform a front and rear suspension inspection on a vehicle and complete a Vehicle Suspension Inspection lab sheet.
		SLO #3 Four Wheel Alignment	The student will perform a four-wheel alignment on a vehicle and complete a 4-Wheel Alignment Data lab sheet.
ATEC 21	Intro to Engine Tune-Up	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Engine Analysis	The student will perform and analysis of an engine using the Automotive Compression/ Cylinder Leakage Test /Vacuum Testing lab worksheet to manufacturer specifications.
		SLO #3 Battery System Test	The student will be able to test the performance of the automotive battery charging and starting systems using the Automotive Battery/ Charging/Starting Systems Testing lab worksheet and manufacturer specifications.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ATEC 22A	Tune-Up/Elect/Fuel System	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Engine Analysis	The student will perform an analysis of an engine using the Automotive Compression/ Cylinder Leakage Test/ Vacuum Testing lab worksheet to manufacturer specifications.
		SLO #3 Engine Condition & Performance	The student will test and evaluate engine condition and performance using an Engine Analyzer/ Scanner lab worksheet to manufacturer specifications.
		SLO #4 Fuel System	Test The student will be able to test the performance of an automotive fuel system using the Fuel System Performance Testing lab worksheet and manufacturer specifications.
ATEC 22B	Tune-Up, Elect/Fuel Syst	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Battery System Test	The student will be able to test the performance of the automotive battery charging and starting systems using the Automotive Battery/ Charging/ Starting Systems Testing lab worksheet and manufacturer specifications.
		SLO #3 Powertrain Control Module	The student will be able to test the performance of the automotive computer controlled system using the Automotive Powertrain Control Module Data lab worksheet and manufacturer specifications.
ATEC 23	Maj Tune-Up/Emissn Contrl	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Engine Analysis	The student will perform an analysis of an engine using the Automotive Compression/ Cylinder Leakage Test/ Vacuum Testing lab worksheet to manufacturer specifications.
		SLO #3 Engine Condition & Performance	The student will test and evaluate engine condition and performance using an Engine Analyzer / Scanner lab worksheet to manufacturer specifications.

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ATEC 24	Fuel Systems/Emissions	#2 Engine Condition & Performance	The student will test and evaluate engine condition and performance using an Engine Analyzer / Scanner lab worksheet to manufacturer specifications.
		SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #3 Fuel System Test	The student will be able to test the performance of an automotive fuel system using the Fuel System Performance Testing lab worksheet and manufacturer specifications.
ATEC 25	Auto Electrical Systems	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Battery System Test	The student will be able to test the performance of the automotive battery charging and starting systems using the Automotive Battery/ Charging/ Starting Systems Testing lab worksheet and manufacturer specifications.
		SLO #3 Engine Condition & Performance	The student will test and evaluate engine condition and performance using an Engine Analyzer / Scanner lab worksheet to manufacturer specifications.
ATEC 26	Auto Testing/Diagnosis	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy
		SLO #2 Powertrain Control Module	The student will be able to test the performance of the automotive computer controlled system using the Automotive Powertrain Control Module Data lab worksheet and manufacturer specifications.
		SLO #3 Engine Condition & Performance	The student will test and evaluate engine condition and performance using an Engine Analyzer / Scanner lab worksheet to manufacturer specifications.

COURSE SLO REPORT

COURSE SLO STATEMENTS - INDUSTRY AND TECHNOLOGY DIVISION

Course ID	Course Name	Course SLO Title	Course SLO Statement
ATEC 33	Trans, Drive Train/Axles	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Automatic Transmission Inspection	The student will inspect, test and evaluate operation of an automatic transmission using manufacturer testing procedures and specifications.
		SLO #3 Manual Transmission Inspection	The student will inspect, test and evaluate operation of a manual transmission using manufacturer testing procedures and specifications.
		SLO #4 Manual Transmission Performance	The student will disassemble, inspect, measure and evaluate the parts of a manual transmission, then reassemble and test the transmission using manufacturer procedures and specifications.
		SLO #5 Automatic Transmission Performance	The student will disassemble, inspect, measure and evaluate the parts of an automatic transmission, then reassemble and test the automatic transmission using manufacturer procedures and specifications.
ATEC 34	Automatic Transmissions	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Automatic Transmission Inspection	The student will inspect, test and evaluate operation of an automatic transmission using manufacturer testing procedures and specifications.
		SLO #3 Automatic Transmission Performance	The student will disassemble, inspect, measure and evaluate the parts of an automatic transmission, then reassemble and test the automatic transmission using manufacturer procedures and specifications.
ATEC 35	Man Trans, Dr Train/Axles	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations, the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Manual Transmission Inspection	The student will inspect, test and evaluate operation of a manual transmission using manufacturer testing procedures and specifications.
		SLO #3 Manual Transmission Performance	The student will disassemble, inspect, measure and evaluate the parts of a manual transmission, then reassemble and test the transmission using manufacturer procedures and specifications.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ATEC 41	Engine Rebuilding	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations, the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Cylinder Head Recondition	The student will recondition an automotive cylinder head using manufacturer procedures and specifications, then complete a lab sheet.
		SLO #3 Engine Inspection & Test	The student will disassemble, inspect, measure and evaluate the parts of an automotive engine, then reassemble and test the engine using manufacturer procedures and specifications.
ATEC 42	Engine Repair	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations, the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Engine Analysis	The student will perform an analysis of an engine to manufacturer specifications and complete Automotive Compression/ Cylinder Leakage Test/ Vacuum and Oil Pressure lab worksheets.
		SLO #3 Cooling System Analysis	The student will test and analyze an automotive engine cooling system using manufacturer procedures and specifications, then complete a lab sheet.
ATEC 43	Intro to Engine Repair	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Engine Analysis	The student will perform an analysis of an engine to manufacturer specifications and complete Automotive Compression/ Cylinder Leakage Test/ Vacuum and Oil Pressure lab worksheets.
		SLO #3 Cooling System Analysis	The student will test and analyze an automotive engine cooling system using manufacturer procedures and specifications, then complete a lab sheet.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ATEC 45	Automotive Machining	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 Cylinder Head Recondition	The student will recondition an automotive cylinder head using manufacturer procedures and specifications, then complete a lab sheet.
		SLO #3 Machining Engine Components	The student will measure, inspect and analyze automotive components with precision instruments, perform varied machine work as required to recondition the components using manufacturer procedures and specifications, and complete a lab sheet.
ATEC 80	Calif Clean Air Car Course	Course SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy
ATEC 81	Automotive Air Conditning	SLO #1 Safety Exam	Given an in class exam, based on readings, classroom discussions and demonstrations , the student will be able to work in the Automotive Shop safely and pass the Automotive Safety Exam with 100% accuracy.
		SLO #2 A/C System Analysis	The student will perform an analysis of automotive system using an air conditioning gauge set to manufacturer specifications and complete a lab sheet.
		SLO #3 Evacuation & Recharge	The student will perform an evacuation and recharge of the refrigerant from the automotive air conditioning system according to industry standards and complete a lab sheet.
CADD 28	Parametric Solid Modeling and Assemblies	SL0 #1 Multi-view Drawing - 3D Solid Model	Given a fully dimensioned multi-view engineering drawing of a machined part, the student will be able to utilize the appropriate functions within the Inventor software to construct a 3Dsolid model of the part.
		SL0 #2 3D Solid Model - Multi-view Drawing	Given a 3D solid model of a simple machined part, the student will be able to utilize the appropriate functions within the Inventor software to create a fully dimensioned multi-view engineering drawing of the part.
		SL0 #3 Animating Assemblies	Given a 3D solid model of a simple mechanism, the student will be able to utilize the appropriate functions within the Inventor software an animated simulation of the mechanism's function.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
CADD 31	Orientation to CATIA	SL0 #1 Creating CATIA V5 Simple 3D Solid Models:	Given a fully dimensioned multi-view engineering drawing of a machined part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a 3D solid model of the part.
		SL0 #2 Creating CATIA V5 Simple Engineering Drawings	Given a 3D solid model of a simple machined part, the student will be able to utilize the appropriate functions within the CATIA software to create a fully dimensioned multi-view engineering drawing of the part.
		SL0 #3 Creating CATIA V5 Simple Assembly Models	Given a set of 3D solid model s of the component parts of a simple assembly, the student will be able to utilize the appropriate functions within the CATIA software to create a fully constrained assembly model.
CADD 32	Product Modeling with CATIA	SL0 #1 3D Model and Engineering Drawing	Given a fully dimensioned multi-view engineering drawing of a complex machined part, utilize the appropriate functions within the CATIA V5 software to construct a 3D solid model of the part, and engineering drawing of the product containing this component.
		SL0 #2 Creating CATIA V5 Complex Engineering Drawings:	Given a 3D solid model of a complex machined part, the student will be able to utilize the appropriate functions within the CATIA software to create a fully dimensioned multi-view engineering drawing of the part.
		SL0 #3 Creating CATIA V5 Complex Assembly Models	Given a set of 3D solid model s of the component parts of a complex assembly, the student will be able to utilize the appropriate functions within the CATIA software to create a fully constrained assembly model.
CADD 33	Analyses and Simulations with CATIA	SL0 #1 Knowledgeware and Generative Sheet Metal Functions :	Given sufficient product definition information, the student will be able to create tabulated models and flat pattern models utilizing the Knowledgeware and Generative Sheet Metal functions within the CATIA V5 software. Generative Sheet Metal functions within the CATIA V5 software.
		SL0 #2 Kinematic Simulations	Given a CATIA Product model of a simple mechanism, the student will be able to create kinematic simulations utilizing the Kinematics Simulation function within the CATIA V5 software.
		SL0 #3 Stress Analysis	Given a CATIA Product model of a simple mechanism, the student will be able to perform stress analyses utilizing Stress Analysis functions within the CATIA V5 software.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
CADD 37	Advanced CATIA Functions	Functions SL0 #1 3D Wireframe Modeling:	Given a fully dimensioned multi-view engineering drawing of a machined part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a 3D wireframe model of the part.
		SL0 #2 Utilizing Surfacing Functions	Given a fully dimensioned multi-view engineering drawing of a complex molded part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a 3D surface model of the part.
		SL0 #3 Joining Surfaces	Given a 3D surface model of two separate surfaces of a complex molded part, the student will be able to utilize the appropriate functions within the CATIA V5 software to construct a third surface blending the original two. The new surface will be tangent continuous with both of the original surfaces.
CADD 43	Design Process and Concepts	SL0 #1 Design Team	Given sufficient design requirement definition, the student shall be able to plan, sketch and create complete engineering drawing packages of sample products work individually as well as functioning effectively as a member of a design team.
		SL0 #2 Product Definition Packages	SL0 #2 Product Definition Packages: Given sufficient design requirement definition, the student will be able to plan, sketch and create complete two dimensional engineering drawing packages of sample products.
		SL0 #3 Design Team	Given sufficient task definition, the student will be able to function as a member of a design team charged with planning and creating a complete two dimensional engineering drawing package of a simple product.
CADD 45	Geometric Dimensioning and Tolerancing	SL0 #1 Detecting Errors and Ommissions	Given sample engineering drawing whose dimensioning and tolerancing is done with Geometric Dimensioning and Tolerancing, the student will be able to point out errors and omissions in the application of dimensions and tolerances.
		SL0 #2 Revising Incomplete Drawings:	Given an incomplete sample engineering drawing, the student will be able to revise the drawing to completely specify desired geometry and permissible variation of geometric characteristics utilizing appropriate symbology per the ASME Y14.5 Standard.
		SL0 #3 Applying Geometric Controls	Given a sample engineering drawing of a machined part without dimensioning and tolerancing and a description of the part's function, the student will be able to correctly apply dimensions, tolerances and datum identifiers.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
CADD 5	Introduction to Mechanical Drafting	SL0 #1 Creating Dimensioned Orthographic Drawings:	Given sufficient product definition information of a simple machined part, the student will be able to utilize the AutoCad software to produce a dimensioned orthographic drawing of the item.
		SL0 #2 Creating Missing Orthographic Views:	Given an incomplete engineering drawing of a simple machined part, the student will be able to utilize the AutoCAD software to produce the missing views in standard 3rd angle orthographic projection.
		SL0 #3 Working From Isometric Views:	Given an isometric drawing of a simple machined part, the student will be able to utilize the AutoCAD software to produce front, top and right side views in standard 3rd angle orthographic projection.
CADD 7	Wireframe with Surfaces, Solid Modeling and Assemblies	SL0 #1 Creating Simple Machined Part-3D Solid Model	Given sufficient product definition information of a simple machined part, the student will be able to utilize the AutoCad software to produce a 3D solid model of the item.
		SL0 #2 Modifying Simple Machined Part-3D Solid Model	Given a 3D solid model of a simple machined part and a dimensioned drawing defining necessary changes, the student will be able to utilize the AutoCad software to modify the 3D solid model to conform to the new requirements.
		SL0 #3 Creating Assembly Models	Given sufficient product definition information of a mechanical assembly and its components, the student will be able to utilize the AutoCad software to create 3D solid models of the individual components and bring them together into an assembly model.

COURSE SLO REPORT

COURSE SLO STATEMENTS - INDUSTRY AND TECHNOLOGY DIVISION

Course ID	Course Name	Course SLO Title	Course SLO Statement
COSM 1	Intro - Cosmetology Procedures	SLO #1 Permanent Wave with Chemicals	The student will complete a permanent wave on a manikin using actual permanent wave chemicals. They will read and follow the manufacturer's instructions. Set up their work area and equipment following the guidelines presented in the lesson. All methods and performance are to the criteria set forth by the state board of barbering and cosmetology.
		SLO #2 Predisposition Test	After appropriate theory and practical demonstration and student practice with simulated product the student will perform a predisposition (PD) test procedure using hair color products e.g. tint and peroxide. Fill out a record card and record the result. All methods and performance are to the criteria set forth by the State Board of Barbering and Cosmetology.
		SLO #3 Finger Waving	After study, instruction, practice and completion of this level the student will be able to show understanding of the types of finger waving lotion and the application procedure by giving a brief overview of the two types of lotion and by demonstrating the procedure for applying finger wave lotion.
COSM 10	Intro to Cosmetology I	SLO #2 Client Services Record	Students will maintain records of a client service by specifying details (e.g. products, processing time) of the services performed. Students will fill out a client card.
		SLO #2 Predisposition Test	SLO: Students will be able to perform a Predisposition Test (skin Patch, allergy test) Procedureusing simulated hair products, such as, tint and peroxide.
		SLO #3 Sanitation	Students will sanitize equipment in preparation for cosmetology service using the State Board of Barbering Cosmetology techniques. Students will create a list of the seven steps required.
COSM 103	Intro to Manicuring Arts	SLO #2 Manicuring	After reading the textbook, participating in classroom discussions, and practicing application procedures, students will be able to demonstrate the principles of manicuring, artificial nails, nail wraps, and nails repairs, spa treatment, and reflexology. Learn theoretically about rules and regulations related to the practices of manicuring, chemical composition for the purpose of nail care preparation, health and safety laws, disinfection and sanitation procedures, ergonomics, and communicable diseases.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
COSM 11	Intro to Cosmetology II	SLO #1 Scissor and Razor Use	Given demonstration, instruction in procedures, lab practice in haircutting, students will be able to define angles, elevations, and guidelines. Demonstrate the safe and proper use of the scissor and razor, mastery of blunt-cut, graduated uniform-layered cut, long-layered cut, and men's basic clipper cut.
		SLO #2 Discarding Products and Disposable Supplies	After chemical service, students will be able to organize discarded products and disposable of supplies by following the State Board of Barbering and Cosmetology regulations and procedures. Students will be able to analyze and list the steps used.
		SLO #3 Scalp and Hair	Students will analyze the condition of a client's hair and scalp to determine whether color service can be performed on the client. Students will be able to fill out a client record card.
COSM 12	Intermediate Cosmetology	SLO #1 "S" Pattern	Given an in-class exam based on reading, classroom discussions and demonstrations, the students will be able to perform skillfully and competently the shaping and directing the hair into a "s" pattern through the use of the fingers, combs, and waving lotion
		SLO #2 Hair Treatment	Students will choose the correct treatment and apply the (conditioner, reconstructor) to the client's hair to assist in restoring the condition of the hair. Students will be able to distinguish the difference between reconstructor and conditioner in written form.
		SLO #3 Performing Tinting Service	Students will perform tinting service on a client by selecting the State Board of Barbering and Cosmetology approved techniques. Students will be able to complete client record card.
COSM 13	Advanced Cosmetology I	SLO #1 Disinfecting Tools	After reading the textbook, participating in classroom discussions, and practicing step-by-step disinfection procedures, students will be able to safely and skillfully disinfect their tools and equipment , and know universal precautions , principles of infections and principles of
		SLO #2 Soft Permanent Wave	Students will perform a soft permanent wave service on a client prepare supplies and tools used during the process following the State Board of Barbering and Cosmetology approved techniques. Students will complete the soft wave perm client record card.
		SLO #3 Facial Products	Students will select facial products according analysis of the client's skin. Students will list the steps and assemble products to be used in the treatment and place products in the proper order during treatment.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
COSM 14ABCD	Advanced Cosmetology II	SLO #1 Pedicuring	Students will be able to demonstrate the proper use of implements, cosmetics and materials used in pedicuring. Demonstrate the massage techniques used when giving a pedicure. Demonstrate the proper procedures of safety and sanitation procedures.
		SLO #2 Bleach and Toner Services	Students will perform bleach/toner service on client by using the State Board of Barbering and Cosmetology approved techniques. Students will estimate the amount product used for the length of the client's hair and follow manufacturer's instructors.
		SLO #3 Haircutting	Students will perform haircutting techniques by using implements(scissors, razors, and clippers) to cut the hair according to the client's needs.
COSM 16ABCD	Cosmetology Applications	SLO #1 Shampooingn	Given demonstration, instruction in procedures, lab practice, in shampooing, rinsing and conditioning, students will be able to explain the importance of ph and surfactants in shampoos. Perform proper draping, scalp manipulations, and demonstrate proper shampoo and conditioning procedures
		SLO #2 Chemical Products	Students will identify potential chemical hazards in products used for cosmetology service used to protect client and cosmetologist. Students will compare and contrast the chemical hazards and list them.
		SLO #3 Acrylic Nails	Students will apply acrylic product to a client's nails following manufacturer's directions. Students will perform techniques approved by the State Board of Barbering and Cosmetology and will list the techniques used in the nail service.
COSM 2ABCD	Adv Cosmetology Procedures	SLO #1 Permanent Wave with Solutions	The students will perform a permanent wave on a manikin using actual permanent wave solutions. They will read and follow the manufacturer's instructions on the box; set up their work area and equipment following the guidelines presented in class. Students are to follow the criteria set forth by the state board of barbering and cosmetology.
		SLO #2 Pin Curls	Student will be able to differentiate between a no-stem curl, half-stem curl and full-stem curl; and be able to define, characterize and demonstrate the three pin curls' construction sufficiently to meet State Board requirement.
		SLO #3 Pin Curl Patterns	Students will be able to demonstrate C-shaping (at least 2 rows), ridge curls, skip waves, vertical alternating pin curls, stand-up and semi-stand-up pin curls by carving out triangular, rectangular, and square bases for curl pattern placements.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
COSM 3	Adv Cosmetology Applicatn	Advanced Cosmetology Applications	Students will be able to demonstrate the four curl patterns accordingly to the performance criteria required by the State Board of Cosmetology.
		SLO #1 Curl Patterns	Given demonstration, instruction in procedures, and lab practice in thermal styling, students will be able to demonstrate on-base, off-base, half-off base, and over-directed curl patterns and choose the type of base curl according to the desired volume.
		SLO #3 Anatomy of Muscles	In this class the student will name and identify the parts of the muscular system and know the functions of the different muscles.
COSM 4	Cosmetology Practicum	SLO #1 Practicing Techniques	Students who have completed the daytime and evening cosmetology course series and lacks hours for the State Board of Cosmetology examination will be able to practice wet styling, disinfection and sanitation, facials, haircutting, thermal styling, chemical services, hair coloring, nails, makeup and eyebrow arching which are advanced practical operations that is required by the State Board of Cosmetology.
		SLO #2 Designing a Hairstyle with Pin Curls	Students should be able to apply the principles of pin curls by demonstrating an understanding in the application of designing a hair style with pin curls.
		SLO #3 Roller Base Placements	Students will be able to demonstrate roller on base, roller off base, roller half-off base, rollers in crown section or side with same bases, and roller indentation pattern with the ability to define and explain the distinguishing features of each roller placement base.
CTEC 100	Building Fundamentals	SLO #1 Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 105	Residential Light Steel Framing	SLO #1 Steel Framing Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 110	Additions and Remodeling	SLO #1 Residential Construction Materials	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 121	Concrete and Formwork	SLO #1 Concrete and Formwork Materials	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction
CTEC 122	Rough Framing	SLO #1 Rough Framing Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 131	Roof Framing	SLO #1 Roof Framing Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
CTEC 132	Stair Framing	SLO #1 Stair Framing Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 141	Interior Subcrafts	SLO #1 Interior Subcrafts Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 142	Exterior Subcrafts	SLO #1 Extrerior Subcrafts	Materials and Methods Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 150	Contract Estimating	SLO #1 Residential Construction Estimating	Students will be able to demonstrate a basic knowledge of residential construction estimating.
CTEC 160	Business and Legal Aspects of Contracting	SLO #1 Legal Aspects	Students will be able to demonstrate a basic knowledge of the California Contractor License Law.
CTEC 172	Residential Electrical Wiring	SLO #1 Electrical Wiring Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
CTEC 180	Residential Plumbing	SLO #1 Plumbing Materials and Methods	Students will be able to demonstrate a basic application of materials and methods commonly used in residential construction.
ECHT 11	Introduction to Electronics	SL0#1 Measuring Voltages and Currents	Measuring Voltage and Current The student will make basic “in-circuit” measurements: Alternating Current/Direct Current (AC/DC), Voltages and Currents, and Resistance, using both a Bench and Portable Digital Multimeter (DMM)
		SLO #2 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations
		SLO #3 Circuit Analysis Calculations	The students will be able to use various circuit analysis calculations to predict a basic circuits operation

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ECHT 110	Introduction to Direct and Alternating Current Circuits	#2 Direct & Alternating Currents	The student will use an Electronic Simulation Software Package similar to Multi-SIM or "P" Spice to supplement both the understanding and analysis of Direct and Alternating Current Circuits.
		SLO #1 Measuring Voltage, Current & Resistance	The student will make advanced "in- circuit" measurements : Alternating Current/Direct Current (AC/DC), Voltages, Currents, and Resistance, using both a Bench and Portable Digital Multimeter (DMM).
		SLO #3 Circuit Analysis Calculations	The student will be able to use various circuit analysis calculations to predict basic circuit operation.
ECHT 120	Semiconductor Circuits I	SLO #1 In-Circuit Measurements	The student will make basic "in-circuit" measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter on Solid-State Systems.
		SLO #2 Circuit Analysis Calculations	The student will be able to use various circuit analysis calculations to predict basic circuit operation.
		SLO #3 Amplifier Operation	The student will be able to explain the operation of : clippers, clampers, Amplifier Biasing, Input/Output Impedances, Classes of different types of Bipolar Transistor Amplifiers.
ECHT 122	Semiconductor Circuits II	SLO #1 Advanced In-Circuit Measurements	The student will make advanced "in-circuit" measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter on Solid-State-Systems
		SLO #2 Field Effect Amplifier	Given a schematic diagram of a basic Field Effect Amplifier, the students will be able to assemble, test and measure the circuit for its operational parameters.
		SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either "paper" or "paperless" environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ECHT 124	Operational Amplifiers and Linear Integrated Circuits	ECHT 124 SLO #2 Advanced In-Circuit Measurements	The student will make advanced "in-circuit" measurements using Bench and Portable Digital Multimeter (DMM), Oscilloscope, and Voltage Ohm (VOM), Milliamp Meter, on Advanced Solid-State-Systems.
		SLO #1 Operational Amplifier	Given a schematic diagram of a basic Operational Amplifier (Op) with negative feedback, the students will be able to assemble, test and measure the circuit for its operational parameters
		SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either "paper" or "paperless" environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.
ECHT 130	Digital Systems and Computer Logic I	SLO #1 DeMorgan's Theorem	The student will use DeMorgan's Theorem to reduce a Boolean Statement in its simplest terms.
		SLO #2 Seven Basic Function Gates	The student will use discrete NOR and NAND Gates to construct all seven basic function gates (NOT, OR, NOR, AND, NAND, EXOR, and EXNOR)
		SLO #3 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either "paper" or "paperless" environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations
ECHT 140AB	Computer Systems and Hardware Technology I	SLO #1 Course Notebook Students	The students will assemble and maintain a five-section course notebook.
		SLO #2 Component Handling Techniques	The student will be able to demonstrate their knowledge in proper component handling techniques, especially regarding (ESD), Electrostatic Discharge.
		SLO #3 Computer Estimate and Configuration	The student will be able to demonstrate their ability to cost out and configure either a Business or "Gaming" Computer per customer specifications.
ECHT 142AB	Computer Systems and Hardware Technologies II	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.
		SLO #2 Troubleshooting Techniques	The student will be able to demonstrate advanced skill levels in their knowledge of repairing computer systems using system troubleshooting techniques introduced within the scope of the
		SLO #3 OEM Specifications	The student will be able to demonstrate their knowledge in using commercially available diagnostic tools to verify a system meets original equipment manufacturer (OEM) specifications.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ECHT 144AB	CompTIA A+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.
		SLO #2 CompTIA Industry Certification	The student will acquire a knowledge base to prepare to take the A+ Certification Exam through CompTIA, an industry recognized certification.
		SLO #3 Electricity & Electronics	The student will acquire a knowledge in safety and the basics of electricity and electronics, micro-computer hardware and components.
ECHT 146	CompTIA Network+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.
		SLO #2 CompTIA Network+ Certification	Exam Students will develop the skills and knowledge required for passing the CompTIA Network+ Certification exam. Topics include set up configuration and troubleshooting of networking hardware devices. Other areas explored include networking topology, cabling, wireless devices, network standards, protocols and security.
		SLO #3 Open Systems Interconnection	Students will demonstrate their knowledge of Open Systems Interconnection (OSI), the seven layers of the OSI model, protocol and data packets, and the standard network model.
ECHT 148	CompTIA Security+ Certification Preparation for Computer Hardware Systems	SLO #1 Course Notebook	The students will assemble and maintain a five-section course notebook.
		SLO #2 Information Security	Students will demonstrate their knowledge of information security, system threats and risks, protecting systems, network vulnerabilities, network defenses, wireless network security, security audits and policies, cryptographic methods, and the basics of computer forensics
		SLO #3 Cybersecurity	Students will demonstrate their knowledge of “Chain of Custody” handling procedures of physical evidence in matters of cybersecurity.

COURSE SLO REPORT

COURSE SLO STATEMENTS - INDUSTRY AND TECHNOLOGY DIVISION

Course ID	Course Name	Course SLO Title	Course SLO Statement
ECHT 191AB	Introduction to Microprocessors and Interfacing	SLO #1 Machine Assembly Language	Students will demonstrate their knowledge of fundamentals of machine assembly language
		SLO #2 Digital & Analog Interfacing	Students will demonstrate their use of software to simulate hardware and digital and analog interfacing.
		SLO #3 Microprocessors and Microcontrollers	Students will demonstrate their knowledge of microprocessors and microcontrollers as they relate to industrial and consumer equipment.
ECHT 192	Robotics and Machine Control	SLO #1 Testing, Operating and Debugging	After completing structured assignments that introduce basic concepts and applications, and of a Microcontroller/Microprocessor, the student use the information learned to successfully test, operate, program, and debug a Microcontroller/Microprocessor.
ECHT 22	Basic Electronic Fabrication	SLO #1 Tools &Test Equipment	Upon successful completion of this course, students will be able to identify and safely operate/manipulate various types of electronic hand tools and test equipment.
		SLO #2 Experimental Data and Analysis Reporting	The students will be able to incorporate experimental data and analysis reporting protocols, using either “paper” or “paperless” environments, similar to data reporting and analysis used by many Electronics Manufacturers and Service Organizations.
		SLO #3 Low Voltage Power Supply	Upon successful completion of this course, students will be able to produce a functional low voltage, direct current (DC) power supply project sample that meets predetermined specifications and which could be potentially mass produced.
ECHT 62	Introduction to the Electric Power Industry	SLO #1 Electrical Theory	Students will demonstrate a basic knowledge of power generation, transmission, and basic electrical theory.
ECHT 64	Electric Power Industry Safety	SLO #1 OSHA Safety Exam	Students will be able to successfully pass the examination for the OSHA (30 Hour) safety-training certificate.
ETEC 10	Princples Engineerng Technolgy	SLO #1 Careers	Students will research engineering and engineering technology careers and create a report as directed in activity 1.3A
ETEC 10A	Princples Engineerng Tech I	SLO #1 Careers	Students will research engineering and engineering technology careers and create a report as directed in activity 1.3A.
ETEC 10B	Princples Engineerng Tech II	SLO #1 Marble Sorter	Students will build an automated marble sorter as directed by activity 4.5K

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ETEC 12	Intro to Engineering Design	SLO #1 Two and Three-Dimensional Models	Given a simple set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional models.
ETEC 12A	Intro to Engineering Design I	SLO #1 Two and Three-Dimensional Models	Given a simple set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional
ETEC 12B	Intro to Engineering Design II	SLO #1 Two and Three-Dimensional Models	Given a simple design problem statement and set of design constraints, the student shall be able utilize AutoCad Inventor software to produce a design package including two-dimensional drawings and three-dimensional models
ETEC 14	Electronics - Engineerng Techs	SLO #1 Logic Equivalencies	Students will be able to use NAND and NOR Gates to configure and test logic equivalencies of: NOT, AND, OR, Exculsive OR and Exclusive NOR logic functions.
		SLO #2 Logic Circuit	Using discrete TTL or CMOS Logic Gates to design, construct, and demonstrate a logic circuit which displays the students Birth Date using three toggle switches, various logic gates, and a single seven segment common anode LED display
ETEC 14A	Electroncs-Engineerng Techs I	SLO #1 Logic Equivalencies	Students will be able to use NAND and NOR Gates to configure and test logic equivalencies of: NOT, AND, OR,Exculsive OR and Exclusive NOR logic functions.
ETEC 14B	Electroncs-Engineerng Techs II	SLO #1 Logic Circuits	Using discrete TTL or CMOS Logic Gates to design, construct, and demonstrate a logic circuit which displays the students Birth Date using three toggle switches, various logic gates, and a single seven segment common anode LED display
ETEC 16	Cpmptr Integrated Manufact	SLO #1 Solid Modeling	Students will measure and solid model a provided assembly.
ETEC 16A	Cpmptr Integrated Manufact I	SLO #1 Solid Modeling	Students will measure and solid model a provided assembly.
ETEC 16B	Cpmptr Integrated Manufact II	SLO #1 Robot Arm	Students will program a robot arm to palletize parts.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
ETEC 18A	Engineering Design/Develop I	SLO #1 Engineering Notebook	Students will develop and maintain an engineering notebook. This legal document contains all the information that is relevant to its purpose of original design. It includes contact information, correspondence, telephone logs, sketches and drawings, reference citations, collected data, and a chronological listing of the events dates and time, connected to the journal's purpose. Documentation is a vital part of engineering. In the case of liability suits, good documentation has kept many engineering firms out of court because it proved there was no wrong doing on their part.
		SLO #2 New Engineering Concept	The student will work as part of an engineering group to develop an engineering concept that is new in nature, safe, cost effective, reliable, and could be mass produced.
ETEC 18B	Engineering Design/Develop II	SLO #1 New Engineering Concept	The student will work as part of an engineering group to develop an engineering concept that is new in nature, safe, cost effective, reliable, and could be mass produced.
FASH 1	Career Opportunities in Fashion	SLO #1 Career Paths	Given previous class instruction and activities, the student will be able to describe a career path in fashion design or fashion marketing with 70% accuracy as demonstrated in a student oral report using PowerPoint or a presentation board.
		SLO #2 Entry Level Positions	Opportunities in Fashion) the student will be able to identify entry level positions and related duties in the fashion industry.
FASH 10	Clothing Construction I	SLO #1 Basic Sewing Techniques	Upon successful completion of Fashion 10ab, given a sketch, the student will be able to identify basic sewing techniques.
FASH 11	Clothing Construction	SLO #1 Sewing Elements	Students will demonstrate knowledge of techniques for basic sewing elements, including zippers, bound button holes, and blind stitch hems.
FASH 14	Pattern Grading	SLO #1 Grading a Dress Block	Given a semester of instruction, demonstrations and classroom activities, the student will grade a 5 piece basic woman's dress block with 70% accuracy.
FASH 15	Fashion Sketching	SLO #1 Contemporary Group	The assignment is to research and execute, in class, an illustrated apparel group presentation. The student will select a specific design element from their research and prepare a contemporary group based upon that element. The presentation must have at least 10 drawn design croqui's adapting a specific design detail from the research. The presentation is to be illustrated and fabricated into a 10 piece cohesive and professionally prepared apparel group presentation of the students choosing. The presentation must include at least three fashion illustrations, selected from and included with 10 detailed technical flats, a color story, and fabric selection.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
FASH 16	Fashion Illustrating	SLO #1 Apparel Group Collections	Each student, after receiving lecture and work critique, demonstration, and laboratory work will be able to: research, design, fabricate, colorize and illustrate at least 2 seasonal apparel group collections for specific target markets, using a mix of fashion illustration renderings or the "Rack and Stack" technique, croqui's and flat trade drawings. They will also forecast specific target market trends as related to this project.
FASH 17	Decorative Textiles	SLO #1 Decorative Tile Techniques	Given a semester of instruction, demonstrations and practice of decorative textile techniques, students will submit a class notebook containing sample fabric swatches which demonstrate techniques with overall 75% accuracy based on a rubric which measures technique skill and
FASH 2	Presentation Techniques for Fashion	SLO #1 Portfolio	Given a semester of instruction, demonstrations and classroom activities, the student will develop a portfolio showing their best work which will be assessed by its readiness to submit to an employer for evaluation. Readiness is at the 75% , C+ level.
FASH 20	Textiles	SLO #1 Content Structure, Dye and Printing	As a result of taking the course, each student will be able to: identify fiber content, fabric structures, and dye, printing, and finishing methods of fabric.
FASH 23	Fitting and Alterations	SLO #1 Restyling a Garment	Given textbook readings and classroom demonstrations the student will be able to redesign a ready to wear garment, restyling it to look completely different than the original garment and will do with 75% accuracy based on sewing construction skills, creativity and uniqueness.
FASH 24	Tailoring	SLO #1 Tailored Jacket	Given textbook readings and classroom demonstrations the student will be able to choose fabric and notions and construct a tailored jacket that is evaluated in terms of quality of construction, fit and creativity which rates at 75% or better.
FASH 26A	Basic Design and Patternmaking	SLO #1 Developing a Pattern	Upon successful completion of the course, the student will be able to develop a pattern from a sketch given to them by the instructor with 75% or better accuracy.
FASH 26B	Basic Dress Design through Draping Process	SLO #1 Developing a Pattern	Given lectures, demonstrations and textbook readings, the student will be able to draft a pattern from a sketch given to them from the instructor with 75% accuracy or better.
		SLO #2 Draping	Upon successful completion of this course, the student will be able to: •Develop draping skills. •Demonstrate the ability to develop a draped garment from a sketch to a finished garment. •Explore how to change style lines to accomplish the desired design. •Understand dart variations.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
FASH 27	Fashion Merchandising	SLO #1 Psychographic	Group Given the information gained from the class (context), students will develop a realistic mock retail store for a demographic and psychographic group along with product merchandising based on learned retail principles. This project will be displayed on a presentation board and assessed by the instructor whether or not the presentation information could actually be used in to
FASH 28	Visual Merchandising	SLO #1 Window Display	Given class lectures and demonstrations, the student will be able to work with group members to design and set up a window display advertising the school's annual fashion show with 75% accuracy in terms of appeal, craft and visual display principles.
		SLO #2 Industry Standard Pattern	At the end of this course, given a garment sketch, a student will be able to use computer aided design software for patternmaking, markers and grading to make an industry standard pattern from the sketch which includes grading the pattern and marking the pattern with 75% accuracy.
		SLO #3 Store Layout	As a result of taking the course and given a designated space/area and budget, the student (with at least 75% accuracy) will be able to create a store layout including information for fixtures and furniture choices within budget.
FASH 29	Computer Pattern Design or Patternmaking	SLO #1 Sketching an Apparel Group Presentation	Upon successful completion of the courses in the fashion department, the student will be able to create a professionally sketched complete apparel group presentation using color, texture and technical flats
FASH 31	History of Costume	SLO #1 Evolution of Fashion	Given course lectures and class activities, students will be able to prepare a (board or PowerPoint) presentation showing the evolution of one fashion item with 75% accuracy.
FASH 35	Applied Color Theory	SLO #1 Personal Clothing Choices	Based on lectures and class exercises, the student will be able to demonstrate the principles learned in the classroom and how they relate to their own clothing choices
FASH 36	Advanced Apparel Pattern Making and Draping Design	SLO #1 Adapting Pattern Blocks	Given class lectures and demonstrations, the student will be able to adapt their pattern block to a production pattern based their own original design with 75% accuracy of industry standards.
FASH 4	Computer Fashion Illustration	SLO #1 Graphic Computer Software	Given a semester of instruction, demonstrations and classroom activities, the student will develop a business card using graphic computer software with 80% accuracy in terms of neatness, creativity and content..

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Course ID	Course Name	Course SLO Title	Course SLO Statement
FASH 41	Fashion Analysis and Selection	SLO #1 Corporate Wardrobe	Given lectures and textbook readings, the student will be able to create a 5 day personal corporate wardrobe based on what they learned about their bodies and flattering outfits. They will include appropriate design lines, color, texture, silhouettes that correspond to their body type with 75% accuracy or better.
FASH 44	Fashion Show Production and Promotions	SLO #1 Promotions	Compare and contrast the effectiveness and application of fashion promotions.
		SLO# 2 Producing and Evaluating Fashion Shows	Coordinate, produce, direct and evaluate live and videotaped fashion shows
		SLO #3 Marketing Strategies	Develop marketing strategies for fashion promotions.
		SLO #4 Planned Events	Evaluate a planned event.
FTEC 1	Fire Protect Organization	SLO #1 Career Opportunities	The Student will be able to identify a minimum of three fire protection career opportunities and the skills and training needed.
FTEC 10	Hazardous Materials	SLO #1 First Responder	After the course of instruction the student will be able to describe the role of the First Responder.
FTEC 11	Arson Detection/Control	SLO #1 Investigating a Fire	The Student will be able to identify legal search methods and procedures to follow when investigating a fire.
FTEC 128	Paramedic Preparation Course	SLO #1 Evaluating a Patient's Blood Pressure	Given a simulated medical emergency patient, the student will be able to correctly evaluate the reasons for the patient's widening blood pressures.
FTEC 130	Basc Prehosptl Care Princ	SLO #1 Upper and Lower Airway	Students will be able to compare and contrast the major components and functions of the upper and lower airway.
FTEC 131	Field Assessing/Reporting	SLO #1 Primary Patient Survey	Given a simulated medical emergency patient, the student will be able to successfully evaluate the components in a primary patient survey.
FTEC 132	Prehospital Care Pharm	SLO #1 Routes for Selected Drugs	Students completing this course will be able to successfully choose the routes by which selected drugs can be administrated.
FTEC 133	Basic/Adv Life Support	SLO #1 Obstructed Airways	Students completing this course will evaluate the most common reasons for an obstructed airway, and will describe the appropriate action(s) to clear the airway
FTEC 134	Medical Emergencies	SLO #1 Altered Consciousness	Students completing this course will be able to successfully choose the appropriate field treatment for a patient with an altered level of consciousness.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
FTEC 135	Traumatic Emergencies	SLO #1 Impaled Objects	Students successfully completing this course will be able to select the appropriate field treatment for an impaled object.
FTEC 136	Special Patient Emergnces	SLO #1 Stages of Labor	Students completing this course will be able to successfully differentiate among the three stages of labor.
FTEC 137	Ems/Legal Aspects/Documnt	SLO #1 Paramedic Field Reports	Students successfully completing this course will categorize the information that should be included on all paramedic field reports, and will complete a field report for a medical emergency.
FTEC 138	Paramedic Clinical Intern	SLO #1 Proper Lung Auscultation	SLO #1 Proper Luc Auscultation Students successfully completing this course will be able to compare the proper lung auscultation methods, and will demonstrate this skill. The student will then correctly interpret the findings.
FTEC 139	Paramedic Field Intern	SLO #1 Collecting and Transmitting Medical Data	Students successfully completing this course will collect, analyze, and transmit emergency medical data using a radio system. The student will then demonstrate this ability at a simulated emergency medical incident.
FTEC 140	Emerg Medical Tech	SLO #1 Course Completion Certificate	Given a total of seven multi-chapter exams and a cumulative final exam, the student must obtain an 80% overall average to receive a Course Completion Certificate. Students scoring lower than 80% receive a grade, but would have to retake the course to earn a certificate.
FTEC 141	Emergncy Medical Tech Lab	SLO #1 Practical Skills	This lab portion of the EMT-Basic course is combined with the lecture section, the student must obtain an 80% overall average in both lecture and lab to receive a Course Completion Certificate. Students scoring lower than 80% receive a grade, but would have to retake the course to earn a certificate. In this lab, the student learns, and show proficiency in a series of practical skills which
FTEC 142ABCD	Basic Emt Recertification	SLO #1 Hours and Skills Testing	Course is intended for those with current, or recently expired Emergency Medical Technician-Basic certification to obtain the hours and skills testing required to recertify as an EMT-B through the local EMS agency. Also may be taken by those attempting to review material in order to retake the National Registry Examination.
FTEC 15	Fire Academy	SLO #1 Fire Department Organization and Culture	Students will define fire department organization and culture, and the expectations of entry-level fire department personnel.
FTEC 150	Firefighter In-Service Trng	SLO #1 Master Steam Appliance	Student will place a master stream appliance in service. The student will choose the correct length of hose; select the required equipment; and calculate the appropriate nozzle size.
FTEC 19	Fire Servce Entrance Prep	SLO #1 Entrance Exams	The Student will be able to identify a minimum of three types of entrance exams.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
FTEC 2	Fire Prevention Technolgy	SLO #1 Historical Fire Problems	The Student will be able to define the historical fire problem and progress of fire prevention in the United States.
FTEC 20	Fire Protection Equip/Sys	SLO #1 Sprinkler Systems	The Student will be able to identify a minimum of four types of sprinkler systems.
FTEC 3	Fundamentals of Personal Fire Safety and Survival	SLO #1 Line of Duty Deaths	Identify the major causes of Firefighter's Line of Duty Deaths and injuries in the United States.
FTEC 4	Fire Co Organzation/Mngmt	SLO #1 Types of Leadership	The student will be able to identify 3 styles of Leadership.
FTEC 5	Fire Behavior/Combustion	SLO #1 Fire Behavior and Chemistry	After the course of instruction the student will be able to recognize the terms and concepts related to fire behavior and chemistry.
FTEC 6	Bldg Constrct-Fire Protct	SLO #2 Physical States of Matter	The Student will be able to identify the 3 physical states of matter and their physical properties.
FTEC 60A	Hazardous Materials	SLO #1 Calculating Atomic Weight	Students enrolled in this course will be able to calculate the atomic weight of a given element.
FTEC 60B	Hazardous Materials, Applied Chemistry	SLO #1 Analyzing Unknown Solid Material	Students enrolled in this course will formulate a plan to analyze an unknown solid material.
FTEC 60C	Hazardous Materials, Incident Organizatn	SLO #1 Incident Action Plans	Given data from a simulated hazardous materials incident, the student will create an Incident Action Plan.
FTEC 60D	Hazardous Materials, Tact Field Operatns	SLO #1 Decontamination	Plan Given a simulated hazardous materials emergency, students will assess the type of emergency (solid, liquid, or gas), and design a decontamination plan.
FTEC 60F	Spec Hazmt Mitgatn Technq	SLO #1 Railroad Tank Car Leak	Given a simulated liquid leak in a railroad tank car, students will compare and contrast the methods used for stopping the leak.
FTEC 60G	Hazmat Fleld Operations	SLO #1 HAZMAT Emergency Operational Guidelines	Given a simulated hazardous materials emergency, students will select the appropriate operational guidelines.
FTEC 9	Fire Apparatus/Equipment	SLO #1 Types of Aerial Apparatus	The Student will be able to identify and describe the four major types of aerial apparatus in terms of their operational characteristics.
MTEC 70	Basic Robotics	SLO #1 Four-Block Flow Chart	Students correctly draw a 4 block flowchart of a computer/robot including: input, processor, memory, and output.
MTEC 75	Integrtd Robotic/Automtd Techs	SLO #1 Programming a Robot	Students will correctly program a robot to travel 5 feet turn 180 degrees and return to the start point.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
MTEC 75A	Intgrtd Robtic/Automtd Tech I	SLO #1 Programming a Robot	Students will correctly program a robot to travel 5 feet turn 180 degrees and return to the start point.
MTEC 75B	Intgrtd Robtic/Automtd Tech II	SLO #1 Programming a Robot	Students will correctly program a robot to travel a total of 10 feet. Within the travel the robot will reach maximum velocity by smoothly accelerating and deaccelerating.
MTT 101	Introduction to Conventional and CNC Machining	SLO #1 Measuring and Recording Dimensions	Given a ground steel block of known and verified dimensions, measure and record the three dimensions of the block using a micrometer to a precision of .001 inches.
MTT 103	Conventional and CNC Turning	SLO #2 Blue Prints	Given a Blue Print student will use all manufacturing equipment available to manufacture the project on the Blue Print to noted specifications.
MTT 105	Conventional and CNC Milling	SLO #1 Squaring the Block	Given a rough-cut aluminum block, square the block using a milling machine, cutters and measurement tools.
MTT 107	Advanced Manufacturing Processes	SLO #1 Pros and Cons of Cuttings	Record the benefits and downsides of the following processes: Waterjet cutting, EDM wire cutting, Plasma cutting and Laser cutting.
MTT 10A	Introduction to CAD/CAM	SLO #1 High Speed Steel End Mill	Student will calculate the correct rotations per minute (RPM) for a high speed steel end mill using the correct cutting speed and end mill diameter.
MTT 10B	Computer Numerical Control Programming	SLO #1 Inputting a Program	Student will input a program in to a Computer Numerical Control (CNC) machine.
MTT 10J	Numerical Control Graphics Programming	SLO #1 Geometric Elements	Student will create geometric elements such as points, lines, and circles.
MTT 10K	3D Numerical Control Graphics Programming	SLO #1 Creating a 3D Solid Model	Student will correctly create a 3D solid model in CAD software and practice roughing the 3D surface using CAM software.
MTT 16	General Metals	SLO #1 HSS Cutting Speed and Mill Diameter	Student will calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter.
MTT 40	Machine Shop Calculations	SLO #1 HSS Setting the Speed	Student will calculate the correct feed per minute for a high speed steel (HSS) end mill using the correct feed per tooth (CL), rotations per minute (RPM), and number of teeth. There is no MTT 40 in the catalog
MTT 46	Basic Machine Tool Operation	SLO #1 HSS Setting the Milling Machine	Student will calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter. Then the student will demonstrate setting the speed of the milling machine.

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Course ID	Course Name	Course SLO Title	Course SLO Statement
MTT 47	NIMS Level I Credential Preparation	SLO #1 HSS Setting the Milling Machine	Student will calculate the correct rotations per minute (rpm) for a high speed steel end mill using the correct cutting speed and end mill diameter. Then the student will demonstrate setting the speed of the milling machine.
NFOO 11	Nutrition	SLO #1 Nutrient Content	Evaluate, in writing, the nutrient content of a three-day diet using dietary analysis software.
NFOO 15	Nutr Infant/Young Childrn	SLO #1 Menus for Children	Following textbook study, direct instruction, and examination and analysis of typical preschool menus, students will create a one-week menu for children attending a preschool or day care program. This menu will be built with appropriate portions of nutrient-dense foods and varied selections, including vegetarian and culturally unique foods. A shopping list, including pack sizes, prices, and total cost projections will be included.
WELD 15	Basic Weldng for Allied Fields	SLO #1 Welding Concepts	Students will be able to demonstrate basic knowledge of welding concepts.
WELD 21	Basic Shielded Metal Arc Welding (SMAW)	SLO #1 Safety	Students will be able to demonstrate the safe set up and operation of welding equipment using all applicable personal protective equipment.
WELD 23	Advanced Arc Welding Specialty Lab	SLO #1 3G and 4G Positions	Welding students will produce quality weld in the 3G And 4G positions
WELD 28	American Welding Society (AWS) D1.1 Certification Test Preparation	SLO #1 Preparing for Exams	Students will be able to locate and use charts, index and table of contents to answer open book questions to prepare for the exam.
WELD 40	Gas Tungsten Arc Welding (GTAW), Gas Metal Arc Welding (GMAW)	SLO #1 TIG Weld Concepts	Students will be able to demonstrate basic knowledge of TIG welding concepts.
WELD 45	Structural Fabrication	SLO #1 Welding and Metal Fabrication Set Up and Operation	Students will be able to demonstrate the safe set up and operation of welding and metal fabrication.
WELD 5	Basic Welding Technology	SLO #1 Quality Welds	Welding students will produce quality welds utilizing various welding techniques.