

Applied Technologies
APRN - Auto. Apprenticeship
AAT_Associate in Arts in Communication Studies 2.0 for Transfer <ul style="list-style-type: none">• Design, express, interpret, and relate verbal and nonverbal messages clearly and confidently to diverse audiences• Apply a range of speaking, listening, and collaboration skills in interpersonal, professional, and group settings• Utilize appropriate resources and technologies to identify, engage, and critically evaluate various forms of information and discourse across various contexts• Develop culturally responsive communication skills necessary to participate as an informed member of a global, multicultural society
ATMG - Automotive Technology Management
PSLO No PSLOs
AUTO - Automotive Technology
AS_Advanced Engine Performance Technology <ul style="list-style-type: none">• Identify the basic electrical circuits and diagnose automotive electrical systems• Apply the basic principles of physics as they work in the automotive industry• Interpret and analyze automotive ignition, fuel and ignition systems• Utilize appropriate diagnostic equipment, documentation and troubleshooting principles on various automotive systems
AS_Automotive Chassis and Powertrain <ul style="list-style-type: none">• Perform undercar inspections and repair suspension, steering, hydraulic and active braking systems• Demonstrate overall operation of an automotive transmission and differential as it relates to service, diagnosis and repair• Identify basic electrical circuits and diagnose automotive electrical circuit systems• Apply the basic principles of physics as they work in the automotive industry• Use written and oral communication skills to write repair orders and speak with customers
AS_Automotive Chassis Technology <ul style="list-style-type: none">• Perform undercar inspections and repair suspension, hydraulic and active braking systems• Diagnose vehicle alignment concerns• Identify the basic electrical circuits and diagnose automotive electrical systems• Apply the basic principles of physics as they work in the automotive industry
AS_Automotive Engine Performance <ul style="list-style-type: none">• Diagnose basic electrical, engine performance and emissions systems• Identify basic electrical circuits and diagnose automotive electrical circuit systems• Apply the basic principles of physics as they work in the automotive industry
AS_Automotive Machining and Engine Repair <ul style="list-style-type: none">• Demonstrate an application of four-stroke engine theory, basic safe machining practices, estimates and repair orders and engine assembly• Identify basic electrical circuits and diagnose automotive electrical circuit systems• Apply the basic principles of physics as they work in the automotive industry• Demonstrate knowledge of the job procurement process and hazardous materials handling in the automotive industry
AS_Automotive Machining and Engine Repair Technology <ul style="list-style-type: none">• Demonstrate an understanding of four-stroke engine theory, basic safe machining practices, estimates and repair orders, and engine

assembly

- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

AS_Automotive Powertrain Technology

- Demonstrate knowledge of the overall operation of an automotive transmission and differential
- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COAA_Advanced Engine Performance Technology

- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry
- Interpret and analyze automotive ignition, fuel and ignition systems
- Utilize appropriate diagnostic equipment, documentation and troubleshooting principles on various automotive systems

COAA_Automotive Chassis and Powertrain

- Perform undercar inspections and repair suspension, steering, hydraulic and active braking systems
- Demonstrate overall operation of an automotive transmission and differential as it relates to service, diagnosis and repair
- Identify basic electrical circuits and diagnose automotive electrical circuit systems
- Apply the basic principles of physics as they work in the automotive industry
- Use written and oral communication skills to write repair orders and speak with customers

COAA_Automotive Chassis Technology

- Perform undercar inspections and repair suspension, hydraulic and active braking systems
- Diagnose vehicle alignment concerns
- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COAA_Automotive Engine Performance

- Diagnose basic electrical, engine performance and emissions systems
- Identify basic electrical circuits and diagnose automotive electrical circuit systems
- Apply the basic principles of physics as they work in the automotive industry

COAA_Automotive Machining and Engine Repair

- Demonstrate an application of four-stroke engine theory, basic safe machining practices, estimates and repair orders and engine assembly
- Identify basic electrical circuits and diagnose automotive electrical circuit systems
- Apply the basic principles of physics as they work in the automotive industry
- Demonstrate knowledge of the job procurement process and hazardous materials handling in the automotive industry

COAA_Automotive Machining and Engine Repair Technology

- Demonstrate an understanding of four-stroke engine theory, basic safe machining practices, estimates and repair orders, and engine assembly
- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COAA_Automotive Powertrain Technology

- Demonstrate knowledge of the overall operation of an automotive transmission and differential
- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COAA_Autonomous and Electric Vehicle Technician (Level 1)

- Utilize the appropriate diagnostic equipment, documentation and troubleshooting principles of various electric vehicle systems

COAA_Autonomous and Electric Vehicle Technology (Level 1)

- Utilize the appropriate diagnostic equipment, documentation and troubleshooting principles of various electric vehicle systems

COA_Advanced Automotive Technology

- Demonstrate understanding of general advanced automotive electrical/environmental concepts as they relate to automotive service, diagnosis and repair

COA_Advanced Engine Performance Technology

- Utilize the appropriate diagnostic equipment, documentation and troubleshoot principles on various automotive systems

COA_Automotive Chassis Technology

- Perform undercar inspections and repair suspension, steering, hydraulic and active braking systems

COA_Automotive General Service Technician

- Perform basic engine service, cooling system maintenance and battery testing
- Perform tire service including balancing, disc and drum brake service, and basic front and rear suspension service

COA_Automotive Machining and Engine Repair Technology

- Demonstrate an understanding of four-stroke engine theory, basic safe machining practices and engine assembly

COA_Automotive Powertrain Technology

- Demonstrate knowledge of the overall operation of an automotive transmission and differential

COA_Autonomous and Electric Vehicle Technician (Level 2)

- Utilize the appropriate diagnostic equipment, documentation and troubleshooting principles of various electric vehicle systems

COA_Basic Engine Performance Technology

- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COA_Intermediate Engine Performance Technology

- Interpret and analyze automotive ignition, fuel and ignition systems

COA_Smog Technician

- Perform a complete California state smog inspection

COCL_Advanced Engine Performance Technology

- Utilize the appropriate diagnostic equipment, documentation and troubleshoot principles on various automotive systems

COCL_Alternative Fuels Technology

- Understand and diagnose body-electrical systems, including electrical accessories

COCL_Automotive Body Electrical

- Understand and diagnose alternative fuels systems such as hybrid, EV, diesel and CNG

COCL_Automotive Chassis Technology

- Perform undercar inspections and repair suspension, steering, hydraulic and active braking systems

COCL_Automotive Machining and Engine Repair Technology

- Demonstrate an understanding of four-stroke engine theory, basic safe machining practices and engine assembly

COCL_Automotive Powertrain Technology

- Demonstrate knowledge of the overall operation of an automotive transmission and differential

COCL_Autonomous and Electric Vehicle Technician (Level 1)

- Utilize the appropriate diagnostic equipment, documentation and troubleshooting principles of various electric vehicle systems

COCL_Autonomous and Electric Vehicle Technician (Level 2)

- Utilize the appropriate diagnostic equipment, documentation and troubleshooting principles of various electric vehicle systems

COCL_Basic Engine Performance Technology

- Identify the basic electrical circuits and diagnose automotive electrical systems
- Apply the basic principles of physics as they work in the automotive industry

COCL_EV and Fuel Vehicle Safety

- Understand safety related to EV vehicles and gaseous fuel vehicles

COCL_General Service Technician

- Perform basic engine service, cooling system maintenance and battery testing
- Perform tire service including balancing, disc and drum brake service, and basic front and rear suspension service

COCL_Intermediate Engine Performance Technology

- Interpret and analyze automotive ignition, fuel and ignition systems

COCL_Smog Technician

- Perform a complete California state smog inspection

DMT - Design and Mfg. Tech.

AS_Advanced Manufacturing and Prototyping Technician

- Construct and inspect machined projects using conventional and CNC equipment that uses word address programs
- Create and manipulate designs for three-dimensional prototypes and models using CAD/CAM software.
- Design and construct three-dimensional objects
- Differentiate and analyze the materials and processes used in subtractive and additive manufacturing.
- Create part geometry using SolidWorks or Creo/Pro Engineer CAD software
- Utilize CAD software to produce and optimize design drawings for 3D printing/additive manufacturing, factoring geometric dimensioning and tolerancing (GD&T) considerations.
- Differentiate and analyze the materials and processes used in manufacturing
- Produce prototypes and models using 3D printing/additive manufacturing processes and materials as per ANSI/ISO Standards.
- Create tool paths for CNC machining using constructed and imported geometry in Mastercam.
- Produce tool paths with constructed and imported geometry using Mastercam
- Construct machined projects using conventional and CNC equipment employing word address programming (G & M code).
- Inspect and test finished prototypes and parts.
- Recommend design and production modifications as necessary

AS_CNC Machinist

- Construct and inspect machined projects using CNC equipment with word address programs
- Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine
- Differentiate and analyze the materials and processes used in manufacturing
- Produce tool paths with constructed and imported geometry using Mastercam
- Apply advanced machining skills by independently contracting projects

AS_CNC Research and Development Machinist

- Construct and inspect machined projects using conventional and CNC equipment using word address programs
- Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine
- Differentiate and analyze the materials and processes used in manufacturing
- Analyze, construct and inspect diagrams to repair physical and electrical components
- Produce tool paths with constructed and imported geometry using Mastercam

COAA_Advanced Manufacturing and Prototyping Technician

- Construct and inspect machined projects using conventional and CNC equipment that uses word address programs
- Create and manipulate designs for three-dimensional prototypes and models using CAD/CAM software
- Design and construct three-dimensional objects

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COAA_CNC Machinist

- Construct and inspect machined projects using CNC equipment with word address programs
- Apply geometric dimensioning and tolerance standards to inspect drawings and inspect parts using a coordinate measuring machine
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- Produce tool paths with constructed and imported geometry using Mastercam
- Apply advanced machining skills by independently contracting projects

COAA_CNC Research and Development Machinist

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COA_Additive Manufacturing Technology: 3D Design and Production

- Apply knowledge of additive manufacturing (AM)/3D printing to analyze, compare, and utilize multiple 3D printing processes and materials to design, prototype, and fabricate components and products for industry
- Analyze AM/3D printing design and production considerations to evaluate and determine the optimal processes and materials to meet industry standards and client specifications
- Demonstrate the skills required for each of the different roles within an AM product development and production facility: CAD designer, AM technician, applications engineer, and quality control
- Produce prototypes and components for fabrication utilizing Design for Additive Manufacturing (DfAM) concepts based on current industry standards and practices

COA_CNC Machinist

- Setup and operate conventional and CNC machines safely
- Construct and inspect machined projects using conventional and CNC equipment
- Construct word address programs to machine projects

COA_CNC Programming - CAD/CAM

- Design and construct 2D, 3D, lathe, horizontal and multi-axis part geometry
- Select tools and produce tool paths with constructed and imported geometry
- Verify tool paths and create word address programs for CNC machines

COA_Computer Aided Design - Mechanical

- Solve basic and complex drafting and design application problems using industry standard two-dimensional and three-dimensional software and feature-based parametric design software
- Apply the fundamentals of computer-aided drafting and design to disciplines such as architectural, mechanical and industrial design and engineering
- Utilize industry standard microcomputer CAD software and the hardware, operating systems and peripherals used to facilitate it

- Create engineering notes and scaled drawings using ASME or International Standards Organization (ISO) specifications
- Satisfy a prospective employer with quality technical expertise in the use of two CAD tools (SolidWorks and Creo) at a level commensurate with entry- to mid-level usage in industry design and engineering

COA_Quality Control Technician

- Analyze, construct and inspect assigned machined projects using the introductory principles of machining
- Demonstrate the ability to interpret multi-view drawings and prints
- Demonstrate the ability to utilize common gauges, measurement instruments and calibration tools
- Apply geometric dimensioning and tolerancing standards to interpret drawings and inspect manufactured parts
- Demonstrate basic operation of the coordinate measuring machine (CMM) to inspect manufactured parts
- Demonstrate a working knowledge of calibration systems, inspection methodology, statistical process control indices and quality sampling techniques

Business/Computer Science

ACCT - Accounting

AA_Accounting

- Demonstrate knowledge of double-entry accounting within financial and cost accounting systems for various business organizations
- Prepare financial statements and reports and analyze these statements to evaluate the financial structure of a firm and describe fundamental business concepts, while identifying ethical issues in accounting
- Identify and assess the theory and reporting differences between International Reporting Standards and U.S. Generally Accepted Accounting Principles
- Evaluate events which require research in the professional literature and formulate an organized, concise approach to a solution

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BUS - Business

AA_Business Administration

- Explain the interactions among the primary functions within business (such as marketing, management, operations, human resources, accounting, finance and business law) to achieve organizational goals

AA_Management

- Analyze management issues, develop solutions and compare leadership styles for a given organizational environment

AA_Marketing Management

- Develop an appropriate marketing plan for an organization in a given business environment

AST_Associate in Science in Business Administration for Transfer 2.0

- Explain the interactions among the primary functions within business (such as marketing, management, operations, human resources, accounting, finance and business law) to achieve organizational goals

COA_Business Administration

- Distinguish and explain the primary functions within business such as management, human resources, business law, operations, marketing, accounting and finance

COA_Business Information Worker

- Use computer input devices to properly and efficiently create and edit documents in word processing and spreadsheet programs, and in electronic communications systems such as email

- Work effectively, respectfully, ethically and professionally with people of diverse ethnic and cultural backgrounds, and diverse social affiliations and personalities, filling a variety of organizational roles
- Communicate effectively and professionally in business situations through writing, speaking and electronic media

COA_Entrepreneurship

- Critically evaluate business plans and describe the processes required to start, operate and measure the results of a small business

COA_Management

- Identify management issues and apply solutions and leadership styles

COA_Management Information Systems Support

- Communicate effectively with business professionals, understand fundamental programming concepts, and track computer systems problems related to a variety of technical areas, such as software applications, database management systems, web sites and comput

COA_Marketing Management

- Identify and distinguish the elements of the marketing mix for an organization in a given business environment

CIS - Computer Sci and Info Systems

AA_Business Programming

- Analyze business requirements and architect, design and develop distributed business applications that meet these requirements to the level of user interfaces, algorithms, design patterns, security and storage strategies

AA_Cybersecurity

- Describe network components, protocols, architectures and the application of current communication and networking technologies
- Define properties of all modern network types
- Determine, at a more advanced level, how to detect and stop security breaches in network and application layer
- Help organizations increase awareness of security policies and procedures

AA_Database Development Practitioner

- Demonstrate requirement analysis, design and coding skills in languages commonly used in data management with large scale databases
- Apply skills for business analysis to convert data into information in real time, allowing business owners to make effective just-in-time decisions

AA_Network Administration

- Use UNIX/LINUX utilities and shell features for file manipulation and communication
- Create algorithms and code, document, debug and test shell scripts that interact with the UNIX/LINUX OS
- Create algorithms to solve introductory-level problems using C programming and shell scripting or Perl languages
- Identify networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks

AA_Network Programming

- Design solutions for advanced network problems creating distributed programs using Transmission Control Protocol and Internet Protocol
- Create algorithms and code, document, debug and test advanced-level C programs using multiple source and header files
- Use UNIX/LINUX utilities and shell features for file manipulation and communication

AA_Project Management Practitioner

- Demonstrate skills in initiating, planning, execution and control of a project with mindfulness to scope, quality, budget and resources
- Demonstrate skills with technical tools for effective project management
- Apply skills for business analysis, program management or portfolio management in real-world projects

AA_Systems Programming

- Create a design, implement and debug solutions for computing systems of different levels of complexity using C and C++
- Create, design, implement and debug solutions for embedded systems such as 8086/ IA32 processor using Assembly Language
- Use UNIX/LINUX utilities and shell features for file manipulation and communication

AST_Associate in Science in Computer Science for Transfer

- Create, design, implement and debug solutions for computing systems of different levels of complexity using an object orientated language

- Create, design, implement and debug solutions for low-level systems using assembly language

COAA_Business Programming

- Analyze business requirements and architect, design and develop distributed business applications that meet these requirements to the level of user interfaces, algorithms, design patterns, security and storage strategies

COAA_Cybersecurity

- Describe network components, protocols, architectures and the application of current communication and networking technologies
- Define properties of all modern network types
- Detect and stop security breaches in network and application layers
- Help organizations increase awareness of security policies and procedures

COAA_Database Development Practitioner

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COA_Cybersecurity

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COA_Database Development Practitioner

- Prepare and review a database design that includes logical and system representations
- Design, code and debug SQL and PL/SQL programs
- Apply performance tuning techniques to large-scale database applications
- Create, design and debug intermediate level programs with basic C programming language
- Create a database that is optimized to meet defined technical requirements

COA_Information Technology Technical Support

- Perform IT support tasks including computer assembly, setting up wireless networking, installing programs

- Configure permissions and file systems, and provide for security on systems using Linux system, Windows system and Domain Name Systems
- Interact with users to diagnose and debug and where needed develop appropriate documentation to support the user

COA_Network Administration

- Identify computer hardware and networking components in the context of micro computers and various types of network operating systems, architectures and protocols
- Develop and present a business improvement plan using the business decision making model and utilizing software applications in word processing, spreadsheets or databases

COA_Network Basics

- Create algorithms to solve introductory-level problems using C programming language through the stages of coding, documenting, debugging, reading and testing with various tools
- Identify networking components and protocols in the context of architectures and technologies for LAN, WAN and Internet networks

COA_Programming in C/C++

- Read, analyze and explain advanced C/C++ programs
- Design solutions for advanced problems using appropriate design methodology incorporating advanced programming constructs
- Create algorithms and code, document, debug and test advanced level C/C++ programs using multiple source and header files

COA_Programming in Java

- Read, analyze and debug code using Core Java
- Design solutions using object-oriented programming constructs and advanced concepts in the Java Development Kit
- Design web applications using a three-tier architecture and applying advanced concepts for Java Enterprise Edition
- Design Java programs for the Android platform
- Create, design and debug advanced-level programs with Java language

COA_Programming in Perl

- Read, analyze and explain intermediate-level C programs
- Design solutions for intermediate-level problems using appropriate design methodology incorporating intermediate programming constructs
- Create algorithms and code, document, debug and test intermediate-level C programs
- Use the UNIX/LINUX Operating System utilities and shell features for basic file manipulation, networking and communication
- Design, code, document, analyze, debug and test advanced-level Perl programs that include object-oriented Perl modules and access to database, TCP/IP and system processes

COA_Programming in Python

- Create algorithms, code, document, debug and test Python programs that include Python modules for database, networking, graphics and extensions
- Read and analyze Python programs

COA_Project Management Practitioner

- Manage projects by applying project management theory as defined by the Project Management Institute's (PMI) Project Management Book of Knowledge (PMBOK)
- Lead the creation of a project plan for an organization's large-scale project with a large budget
- Apply risk management techniques to a project to balance scope, quality, budget, scheduling and team morale
- Write a vendor solicitation plan and use a collaborative approach for selecting vendors
- Successfully manage a vendor through a project's completion while providing all project participants with a clear picture of scope, quality, budget and schedule

COA_UNIX/LINUX Operating System

- Use UNIX/LINUX utilities and shell features for file manipulation, job control and communication
- Create algorithms and code, document, debug and test shell scripts that interact with the UNIX/LINUX Operating System

COA_Visual Basic Programming

- Develop and present a plan for improving a business using the business decision making model utilizing hardware and software applications such as word processing, spreadsheets or databases

- Design, create and debug an application incorporating class modules, bas modules, multiple forms and database updating
- Design, create and debug a Web application using ASP.NET 3.5

COA_Web Development

- Create algorithms and code, document, debug and test introductory-level programs in a high-level programming language
- Create web pages using Extensible Hypertext Markup Language (XHTML), Cascading Style Sheets (CSS), JavaScript and the Document Object Model (DOM), and demonstrate how they interact together within a web document

COCL_Business Software Applications

- Create complex business documents using word processing, spreadsheets and database
- Design brochures and graphics with Photoshop
- Microsoft Windows setup and file management
- Optimize workflow with cloud file sharing
- Protect computers for malware, scams and exploitation
- Identify and stop security vulnerabilities

COCL_Database Science Practitioner

- Demonstrate requirement analysis, design and coding skills in languages commonly used in data management with large-scale databases
- Apply skills for business analysis to convert data into information in real time, allowing business owners to make effective just-in-time decisions

COCL_Information Technology Technical Support

- Perform IT support tasks including computer assembly, setting up wireless networking, installing programs
- Configure permissions and file systems, and provide for security on systems using Linux system, Windows system and Domain Name Systems
- Interact with users to diagnose and debug and where needed develop appropriate documentation to support the user

COCL_Introduction to Computer Science

- Use the Unix/Linux Operating System utilities and shell features for basic file manipulation, networking, and communication
- Design, code, document, analyze, debug, and test introductory level Python programs

COCL_Project Management Practitioner

- Manage projects by applying project management theory as defined by the Project Management Institute's (PMI) Project Management Book of Knowledge (PMBOK)
- Lead the creation of a project plan for an organization's large-scale project with a large budget
- Apply risk management techniques to a project to balance scope, quality, budget, scheduling and team morale
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REST - Real Estate

AA_Real Estate

- Demonstrate knowledge of how real property is described, acquired, appraised, financed, encumbered and leased and how title to real property is held in California
- Demonstrate knowledge of the risks, returns, legal issues and ethical issues involved in the purchase, holding and sale of California real estate
- Qualify to take the California Department of Real Estate salesperson examination

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- Demonstrate knowledge of how real property is described, acquired, appraised, financed, encumbered and leased and how title to real property is held in California
- Demonstrate knowledge of the risks, returns, legal issues and ethical issues involved in the purchase, holding and sale of California real estate
- Qualify to take the California Department of Real Estate salesperson examination

COCL_Real Estate Salesperson

- Demonstrate knowledge of how real property is described, acquired, appraised, financed, leased and how title to real property is held in

California

- Demonstrate knowledge of the risks, returns, legal issues and ethical issues involved in the purchase, holding and sale of California real estate
- Be prepared and qualified to sit for the California Department of Real Estate salesperson examination