

**Program Learning Outcomes from 2014-2015 Catalog  
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**ACCOUNTING PROGRAM**

**A.S. Degree: Accounting**

**PROGRAM LEARNING OUTCOMES (UPDATED 2014)**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment in an entry-level position in the accounting field.*
3. *Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle through financial statements.*

**Certificate of Achievement: Accounting**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment in an entry-level position in the accounting field.*
3. *Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.*

**Certificate of Achievement: Accounting Clerk (UPDATED 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Utilize technology to perform general office procedures.*
2. *Obtain entry level employment as an accounting clerk.*
3. *Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.*

**ADMINISTRATION OF JUSTICE PROGRAM**

**A.S.-T. Degree: Administration of Justice**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Explain the roles that the three components of the administration of justice system play in society and how these components interact with one another to provide public safety.*

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2. *Define the role of policing and recognize importance of building and maintaining favorable community relations.*
3. *Interpret, assess and compare competing types of evidence and data.*
4. *Identify the legal and societal restrictions placed by society on the administration of justice system in carrying out its role or providing for the public safety of society.*

**A.S. Degree: Administration of Justice**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *The student will be able to discuss the roots of the American legal system and how it applies to today's criminal justice profession, including ethical dilemmas confronting today's society.*
2. *The student will be able to create narrative reports, develop note taking skills, create visual simulations and develop interview techniques.*
3. *The student will describe the value of diversity and its inclusion rather than exclusion into the criminal justice system.*
4. *The student will be able to select a topic and be able to solve a social / criminal justice issue.*

**Skills Recognition: Supervisory Management In Public Safety**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *The student will be able to discuss management, supervision and human resources as it relates to today's criminal justice profession.*
2. *The student will be able to analyze ethical dilemmas confronting law enforcement.*
3. *The student will describe the value of diversity and its inclusion rather than exclusion into the criminal justice system.*
4. *The student will be able to select a topic and be able to solve a social / criminal justice issue.*

**AGRICULTURE BUSINESS PROGRAM**

**A.S. Degree: Agriculture Business**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Organize and prepare reports, presentations, and other financial documents used in making farm management decisions.*
2. *Assess supply and demand as it relates to local and regional agriculture business industries.*
3. *Make logical decisions based on the analysis of agriculture business trends.*

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**A.S. Degree: Agriculture: Sales, Service**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate proficiency in accounting procedures using a double-entry bookkeeping system.*
2. *Organize and prepare reports, presentations, and other information pertaining to managerial procedures.*
3. *Describe the economic significance of California Agriculture and its relationship to the global economy.*
4. *Explain supply and demand as it relates to local and regional agriculture business industries.*
5. *Demonstrate the ability to make logical business decisions based on the analysis of business trends locally, regionally, and globally.*
6. *Demonstrate proficiency using computers, the Internet, and other technology as they relate to agri-business.*
7. *Recognize world markets and describe their effect on local agriculture economies.*

**Certificate of Achievement: Agriculture: Sales, Service Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Evaluate market trends and create a marketing plan for an agricultural product or commodity.*
2. *Organize and prepare reports, presentations, and financial documents pertaining to agriculture business.*
3. *Create a customer profile and employ a sales strategy based on that profile.*

**AGRICULTURAL MECHANICS PROGRAM (MECHANIZED AGRICULTURE)**

**A.S. Degree: Mechanized Agriculture**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Fabrication Option**

1. *Design and fabricate agriculture equipment effectively.*
2. *Select proper fabrication equipment for various construction and/or repair situations.*

**Power Option**

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1. *Select proper tools and equipment for various applications, staying within the desired financial restraints.*
2. *Repair basic power equipment effectively.*

**Certificate of Achievement: Advanced Heavy Equipment Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.*
2. *Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.*
3. *Select proper tools and equipment for various applications, staying within the desired financial restraints.*
4. *Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.*

**Certificate of Achievement: Basic Heavy Equipment Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.*
2. *Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.*
3. *Select proper tools and equipment for various applications, staying within the desired financial restraints.*
4. *Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.*

**Certificate of Achievement: Heavy Machinery Management**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe the various employment opportunities available within the mechanized agriculture field and demonstrate the minimum educational requirements for entrance into each.*
2. *Locate, read, and interpret appropriate plans, manuals and equipment documentation in order to fabricate and/or repair equipment effectively.*

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3. *Select proper tools and equipment for various applications, staying within the desired financial restraints.*
4. *Maintain tools and equipment and demonstrate the value of preventative maintenance and proper equipment usage.*

**Certificate of Achievement: Mechanized Agriculture Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Fabrication Option**

1. *Design and fabricate agriculture equipment effectively.*
2. *Select proper fabrication equipment for various construction and/or repair situations.*

**Power Option**

1. *Select proper tools and equipment for various applications, staying within the desired financial restraints.*
2. *Repair basic power equipment effectively.*

**AGRICULTURAL SCIENCE PROGRAM**

**A.S. Degree: Agricultural Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Identify and appraise the educational requirements for career opportunities in the agriculture industry.*
2. *Analyze and communicate effectively core issues in the various fields of agriculture.*
3. *Integrate leadership aptitudes into one-on-one and group settings.*

**A.A. Degree: University Preparation, Emphasis in Agricultural Sciences**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Give specific examples of careers in the general agriculture area and briefly describe the prerequisites for these careers.*
2. *Describe the basic workforce readiness skills needed to be successful in agriculture careers today.*

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3. *Describe the importance of the agriculture industry to the local, state and national economy.*

**ANIMAL SCIENCE PROGRAM**

**A.S. Degree: Animal Science (Revised March 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve agriculture problems.*
2. *Demonstrate safe work habits.*
3. *Identify careers in the Animal Agriculture Industry and describe the skills needed for those careers.*
4. *Describe basic management techniques used by the Animal Science industry to produce wholesome, safe, environmentally responsible animal products.*

**A.S. Degree: Dairy Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe management techniques used by the dairy industry.*
2. *Utilize a variety of technologies in the dairy industry.*

**A.S. Degree: Poultry Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve agriculture problems.*
2. *Describe basic techniques used by the poultry Science industry to produce wholesome, safe, environmentally responsible animal products.*

**Certificate of Achievement: Artificial Insemination Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Give specific examples of careers in the Artificial Insemination industry.*
2. *Describe technologies used in the Artificial Insemination industry.*

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**Certificate of Achievement: Veterinary Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Give specific examples of careers in the Animal Agriculture industry and briefly describe the prerequisites for these careers.*
2. *Describe basic management techniques used by the Animal Science industry to produce wholesome, safe, environmentally responsible animal products.*
3. *Utilize a variety of technologies to gain information about the Animal Agriculture industry and apply these technologies in the analysis of specific situations.*
4. *Describe the economic significance of a specific area studied in animal science and explain the social/cultural benefits provided by that industry.*

**ANTHROPOLOGY PROGRAM**

**A.A.-T.: ANTHROPOLOGY**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe the basic concepts, methods of inquiry, and the theories of biological, cultural, linguistic and archaeological anthropology.*
2. *Explain how the scientific method serves as a foundation for understanding the observed variation, change and adaptation of humans and their environments.*
3. *Use anthropological perspectives to interpret evolutionary, historical and contemporary issues.*

**ART PROGRAM**

**A.A.-T. Degree: Art History**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in Art History or a related subject at an upper-division level.*
2. *Learn the major monuments and masterpieces of the great art periods from the prehistoric to the Modern era discern how man expresses himself through these works.*
3. *Demonstrate and understanding of the chronology of art developments and the vocabulary terms employed in the discussion of these developments.*
4. *Evaluate the basic qualities of an artwork, i.e. style, composition, color, technique, and medium.*

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5. *Evaluate original works of art by visiting significant art museums in the San Francisco Bay Area or elsewhere.*
6. *Reproduce, render, and interpret ideas in a variety of media through participation in studio arts classes.*

**A.A.-T. Degree: Studio Arts**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in Studio Art at an upper-division level.*
2. *Reproduce, render, and interpret ideas in a variety of media through observation.*
3. *Plan, design, and produce original works of art.*
4. *Make informed assessments of quality and effectiveness in works of art, including their own.*
5. *Identify and distinguish various historical periods of art and trends of contemporary practice*

**A.A. Degree: Art**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in art at an upper division level.*
2. *Reproduce, render, and interpret in a variety of media through observation.*
3. *Plan, design, and produce original works of art.*
4. *Make informed assessments of quality and effectiveness in works of art, including their own.*
5. *Identify and distinguish various historical periods of art.*

**ATHLETIC TRAINING SPORTS MEDICINE PROGRAM**

**A.S. Degree: Athletic Training/Sports Medicine**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Complete the transfer pattern to successfully transfer to a four (4) year degree program.*
2. *Apply critical thinking to utilize protocols in regard to safely designing and monitoring the various preventive and rehabilitative techniques, as well as administering emergency care.*
3. *Demonstrate competence in Athletic Training concepts, NATA competencies, and NATA theoretical perspectives and current research*



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**AUTOBODY/COLLISION REPAIR PROGRAM**

**Certificate of Achievement: Autobody/Collision Repair**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Perform Auto Body repairs in accordance with industry standards.*
2. *Comply with current Auto Body industry safety and environmental standards.*

**AUTOBODY/REFINISHING PROGRAM**

**A.S. Degree: Autobody/Refinishing**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Work successfully in the autobody/collision repair industry.*
2. *Demonstrate compliance with current autobody industry safety and environmental standards.*
3. *Perform body repairs in accordance with autobody industry standards.*

**Skills Recognition Award: Autobody/Refinishing**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Comply with current industry safety and environmental regulations.*
2. *Perform basic refinishing techniques in accordance with industry standards.*

**AUTOMOTIVE MAINTENANCE PROGRAM**

**Certificate of Achievement: Automotive Maintenance**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current automotive industry safety and environmental standards.*
2. *Perform maintenance and repair operations in accordance with ASE standards.*

**AUTOMOTIVE TECHNOLOGY PROGRAM**

**A.S. Degree: Automotive Technician**

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**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current automotive industry safety and environmental standards.*
2. *Perform maintenance and repair operations in accordance with ASE standards.*

**Certificate of Achievement: Automotive Engines and Transmissions (Adopted Summer 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current automotive industry safety and environmental standards.*
2. *Perform maintenance and repair operations to automotive engines and transmissions in accordance with ASE standards.*

**Certificate of Achievement: Automotive Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current automotive industry safety and environmental standards.*
2. *Perform maintenance and repair operations in accordance with ASE standards.*

**BIOLOGICAL SCIENCES PROGRAM**

**A.S. Degree: University Preparation, Emphasis in Biological Sciences (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply the scientific method of discovery to problem solving situations in biology, mathematics, and chemistry.*
2. *Proficiently use the scientific vocabulary, including the key terms and concepts in biology, chemistry, and mathematics.*

**BOOKKEEPING PROGRAM**

**A.S. Degree: Bookkeeping (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

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1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment as an entry-level bookkeeper.*
3. *Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.*

**Certificate of Achievement: Bookkeeping (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment as an entry-level bookkeeper.*
3. *Demonstrate the working knowledge required to perform the various tasks necessary in a complete accounting cycle.*

**BUSINESS ADMINISTRATION PROGRAM**

**A.S.-T. Degree: Business Administration**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Transfer to the California State University system.*
2. *Be prepared for upper division coursework.*
3. *Recognize and analyze business and financial issues to ensure accurate reporting and to make informed business decisions.*
4. *Understand business terminology.*
5. *Recognize and analyze ethical issues as they apply to the business environment.*

**A.S. Degree: Business Administration**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Transfer to most four year universities.*
2. *Will be prepared for upper division coursework.*
3. *Demonstrate the ability to recognize and analyze ethical issues as they apply to the business environment*

**BUSINESS OPERATIONS PROGRAM**

**A.S. Degree: Business Operations: Management**

**PROGRAM LEARNING OUTCOMES**

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Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment in an entry-level management position within the for-profit or non-profit sector.*
3. *Critically analyze common management issues.*
4. *Demonstrate appropriate and effective business communication skills.*

## **CHEMICAL DEPENDENCY COUNSELING PROGRAM**

### **A.A. Degree: Chemical Dependency Counseling**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate an understanding of chemical dependency, family systems, and the application of the code of ethics as it relates to chemical dependency counseling.*
2. *Exhibit effective, communication, body language, and written abilities.*
3. *Demonstrate an understanding of addiction, biology, psychoactive substances, co-occurring disorders, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.*
4. *Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.*

## **CHEMISTRY PROGRAM**

### **A.S. Degree: University Preparation, Emphasis in Chemistry**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Score the national median or higher on American Chemical Society General Chemistry Exam (full year).*
2. *Score the national median or higher on American Chemical Society Organic Chemistry Exam (full Year).*
3. *Use of quantitative and/or qualitative analysis techniques to determine an unknown in a general chemistry laboratory*
4. *Use of NMR, IR and other spectrum to determine an unknown organic compound.*

## **CHILD DEVELOPMENT PROGRAM**

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**A.S.-T. Degree: Early Childhood Education (Adopted Summer 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.*
2. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.*
3. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*
4. *Develop strategies that promote partnerships between programs, teachers, families and their communities.*
5. *Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education.*

**A.S. Degree: Child Development**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eighth as related to high quality care and education of young children.*
2. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.*
3. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*
4. *Develop strategies that promote partnerships between programs, teachers, families and their communities.*
5. *Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education profession.*

**Certificate of Achievement: Associate Teacher**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

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1. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.*
2. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*

**Certificate of Achievement: Early Intervention Assistant 2 (THIS AWARD REPLACES EARLY INTERVENTIONIST AWARD EFFECTIVE 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Integrate understanding of the special needs, characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.*
2. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for young children in inclusive environments.*
3. *Adapt and apply respectful, effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*

**Certificate of Achievement: Master Teacher**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and describe the courses totaling 32 units necessary to complete this certificate and compare/contrast how the certificate is aligned with the Master Teacher Permit issued through State of California, Commission on Teacher Credentialing.*
2. *Apply specialized knowledge of courses from the six-unit option in the early care and education classroom (i.e. infant/toddler; early intervention; families and culture.)*
3. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence as the lead teacher in the classroom.*
4. *Demonstrate an awareness and understanding of the diverse cultural aspects of child rearing and family practices and potential cultural conflicts as individuals interact.*

**Certificate of Achievement: Site Supervisor**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the field of early care and education.*

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2. *Integrate understanding of the needs, characteristics and multiple influences on development of children birth to age eight as related to delivering high quality care and education for young children.*
3. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.*
4. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*
5. *Develop strategies that promote partnerships between programs, teachers, families and their communities in early care and education settings.*

**Certificate of Achievement: Teacher**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high quality care and education of young children.*
2. *Design, implement and evaluate environments and activities through observation, assessment, and intentional reflection that support positive, developmental play and learning outcomes for all young children.*
3. *Apply effective guidance and interaction strategies that support all children's social learning, identity and self-confidence.*
4. *Develop strategies that promote partnerships between programs, teachers, families and their communities.*
5. *Apply ethical standards and professional behaviors that demonstrate understanding and knowledge, deepening the commitment to the Early Care and Education.*

**CLERICAL PROGRAM**

**A.S. Degree: Clerical**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.*
2. *Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*
3. *Actively assist in implementing general office procedures, including records management.*

**Certificate of Achievement: Clerical**

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**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.*
2. *Competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*
3. *Actively assist in implementing general office procedures, including records management.*

**COMMUNICATION STUDIES PROGRAM (PREVIOUSLY CALLED SPEECH COMMUNICATION PROGRAM)**

**A.A.T. Degree: Communication Studies**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.*
2. *Identify and apply principles of interpersonal communication theory to build functional relationships.*
3. *Demonstrate critical thinking in the analysis and production of communication.*
4. *Adequately debate others, present platform speeches, or perform works of literature in a classroom or outside venue.*

**A.A. Degree: Communication Studies**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Construct a speech outline demonstrating clarity of ideas, proper source citation, awareness of audience, and proper outlining techniques.*
2. *Identify and apply principles of interpersonal communication theory to build functional relationships.*
3. *Find, evaluate, and incorporate research materials into written and oral argumentation, as well as cite sources correctly.*
4. *Adequately debate others, present platform speeches, or perform works of literature in a classroom or outside venue.*

**Certificate: Communication Studies (Changed from a SR to a Certificate effective Summer 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:



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1. *Construct speeches and other compositions demonstrating clarity of ideas, research skills, proper source citation, logical argument, awareness of audience, and proper outlining techniques.*
2. *Identify and apply principles of interpersonal communication theory to build functional relationships.*
3. *Demonstrate critical thinking in the analysis and production of communication*

**COMPUTER APPLICATIONS SPECIALIST PROGRAM**

**Certificate of Achievement: Computer Applications Specialist**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply basic computer hardware, software and information technology concepts and techniques to a variety of business environments.*
2. *Demonstrate proficiency in applying common business productivity software to business functions, including word processing, spreadsheets, database, and presentation applications.*
3. *Identify software to be used to address specific business needs.*
4. *Demonstrate professional and effective communication skills.*

**COMPUTER ELECTRONICS PROGRAM**

**A.S. Degree: Computer Electronics**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Work successfully in the computer service & repair and telecommunication industries.*
2. *Perform basic computer hardware and telecommunication installations and repairs in accordance with commonly accepted industry practices.*

**Certificate of Achievement: Electronics Technology-Computer Electronics**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Work successfully in the computer service & repair and telecommunication industries.*
2. *Perform basic computer hardware and telecommunication installations and repairs in accordance with commonly accepted industry practices.*

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**COMPUTER GRAPHICS APPLICATIONS PROGRAM**

**A.S. Degree: Computer Graphics Applications**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Proficiently operate software, hardware, and equipment according to industry standards.*
2. *Design and develop products and procedures for digital imaging, design, animation, and current and emerging technologies.*

**Certificate of Achievement: Computer Graphics Applications**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Design and develop products and procedures for digital imaging, design, animation, and current and emerging technologies.*
2. *Proficiently operate software, hardware, and equipment according to industry standards.*

**COMPUTER INFORMATION SYSTEMS PROGRAM**

**A.S. Degree: Computer Information Systems**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in computer information systems at an upper division level.*
2. *Demonstrate the techniques of information analysis and application design and implementation for information technology industries.*
3. *Demonstrate a high level of data organization techniques for information storage and retrieval processes.*
4. *Use these techniques to model real-world applications.*
5. *Demonstrate a high level of communication skills.*

**COMPUTER PROGRAMMING SPECIALIST PROGRAM**

**Certificate of Achievement: Computer Programming Specialist**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

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1. *Demonstrate a firm understanding and working knowledge of basic problem analysis, design, implementation, and maintenance.*
2. *Be prepared to obtain employment in an entry-level position in software engineering.*
3. *Employ industry-accepted coding practices and standards.*
4. *Implement object oriented software solutions.*
5. *Employ various code level debugging techniques.*
6. *Utilize software development tools.*
7. *Perform functional software testing.*
8. *Demonstrate professional and effective communication skills.*

**COMPUTER SCIENCE PROGRAM**

**A.S. Degree: Computer Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully enter local industry as a software programmer, network specialist, or information systems specialist depending of degree option completed.*
2. *Configure and use computer hardware and software to solve most entry level business application requirements.*
3. *Plan, design, and implement solutions to standard computing problems.*
4. *Make informed assessments of the quality and effectiveness software implementations, including their own.*
5. *Assist and help provide training to employees in local area businesses.*
6. *Demonstrate a high level of communication skills.*

**A.A. Degree: Computer Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in computer science at an upper division level.*
2. *Demonstrate the techniques of problem solving and programming computer based software development.*
3. *Demonstrate a high level of mathematical reasoning and scientific methodology.*
4. *Use these techniques to model real-world applications*
5. *Demonstrate a high level of communication skills.*

**EARTH SCIENCES PROGRAM**

**A.S. Degree: University Preparation, Emphasis in Earth Sciences**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Identify, describe, and explain the causes and consequences of the various physical processes that transfer energy into, within, and out of the earth system.*
2. *Identify, describe, and explain the causes and consequences of the various chemical processes that control the transformation of matter within the earth system.*
3. *Identify, describe, and explain the causes and consequences of the various interactions between the biosphere and the physical components of the earth system.*

**EMERGENCY MEDICAL TECHNICIAN PROGRAM**

**Skills Recognition: Emergency Medical Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Pass the National Registry Exam for certification as an Emergency Medical Technician 1.*
2. *Demonstrate compliance with regulations of the National Registry of Emergency Medical Technician.*

**ENGLISH PROGRAM**

**A.A.-T Degree: English**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Read, comprehend, and evaluate a variety of texts and various forms of media.*
2. *Write clear, organized work in a style suited for its purpose and audience.*
3. *Create professional-looking written work that shows careful editing and properly document sources.*
4. *Demonstrate an appreciation of literature by reading and analyzing works from various genres, periods, and cultures.*

**ENVIRONMENTAL HORTICULTURE SCIENCE PROGRAM**

**A.S. Degree: Environmental Horticultural Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

1. *Identify and appraise the educational requirements for career opportunities in the horticulture industry.*
2. *Perform nursery practices necessary to be successful in the horticulture industry.*
3. *Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, and growth habits, for each.*
4. *Demonstrate the effective work habits and inter-personal communication skills required by employers in the horticulture industry.*

**Certificate of Achievement: Commercial Floristry Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate general nursery practices of the industry, including transplanting, plant identification, identification of health related issues, and general horticulture practices necessary to be successful in the horticulture industry.*
2. *List at least five career opportunities in the horticulture industry, both locally and within the State of California and the United States.*
3. *Identify 300 plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.*
4. *Demonstrate good work habits and inter-personal communication skills that employers demand.*

**Certificate of Achievement: Landscape and Park Maintenance**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Perform practices related to the maintenance of residential and commercial landscapes.*
2. *Identify landscape plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.*
3. *Demonstrate effective work habits and interpersonal communication skills required by employers in the landscape and park maintenance industry.*

**Certificate of Achievement: Landscape Design**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *List at least five career opportunities in the horticulture industry, both locally and within the State of California and the United States.*
2. *Demonstrate general nursery practices of the industry, including transplanting, plant identification, identification of health related issues, and general horticulture practices necessary to be successful in the horticulture industry.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

3. *Identify 300 plants found in the Central Valley of California and describe the cultural characteristics, as well as growth habits, for each.*
4. *Demonstrate good work habits and inter-personal communication skills that employers demand.*

**Certificate of Achievement: Nursery Production**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Perform nursery practices necessary to be successful in the nursery production industry.*
2. *Identify nursery plants grown in California and describe the cultural characteristics and growth habits, for each.*
3. *Demonstrate the effective work habits and interpersonal communication skills required by employers in the nursery production industry.*

**ENVIRONMENTAL SCIENCES PROGRAM**

**A.S. Degree: University Preparation, Emphasis in Environmental Sciences**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply the scientific methods of discovery to problem solving situations in biology, chemistry, and mathematics.*
2. *Proficiently use the scientific vocabulary, including the key terms and concepts in biology, chemistry, and mathematics.*

**ETHNIC STUDIES PROGRAM**

**Skills Recognition: Ethnic Studies**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Understand how race and ethnic relations have been shaped by economic, social, cultural, and political realities.*
2. *Demonstrate familiarity with various methodological approaches to the terrains of race and ethnicity, especially in their relation to identity, inequality, culture, and history.*

**FIRE ACADEMY PROGRAM**

**Skills Recognition: Fire Academy**

**PROGRAM LEARNING OUTCOMES**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with state Fire Training Requirements for Firefighter I.*
2. *Demonstrate compliance with National Fire Protection Association Standards.*

**FIRE SCIENCE PROGRAM**

**A.S. Degree: Fire Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.*
2. *Demonstrate compliance with California State Fire Training Standards for Firefighter I.*
3. *Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.*
4. *Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.*
5. *Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.*
6. *Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.*

**Certificate of Achievement: Fire Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with all laws, regulations, codes, and standards that influence fire department operation.*
2. *Demonstrate compliance with California State Fire Training Standards for Firefighter I.*
3. *Explain the flow requirements for fire apparatus, diagraming a pump and plumbing schematic.*
4. *Demonstrate the ability to respond safely and effectively to fire situations by explaining the requirements needed to respond to emergencies in private, city, state, and federal locations and describing the rank structure and job requirements for all positions.*
5. *Explain minimum qualifications and entry-level skills for fire fighter hiring, describing the following elements: application process, written exam process, physical agility exam process, interview process and chief's interview process.*
6. *Describe common types of building construction as well as conditions associated with structural collapse and firefighter safety.*

**FORESTRY PROGRAM**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**A.S. Degree: Forestry**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve forestry problems.*
2. *Perform forestry practices necessary to be successful in the horticulture industry.*
3. *Apply forestry principles to sustainable resource management problems.*
4. *Demonstrate the effective, safe work habits and inter-personal communication skills required by employers in the forestry industry.*

**Certificate of Achievement: Forestry Technician (Updated Summer 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Practice safe work habits in an employment setting, including handling and storage of hazardous materials and operation of basic tools and equipment.*
2. *Apply forestry and land management skills for technical employment in the natural resource management.*
3. *Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.*

**GEOGRAPHY PROGRAM**

**A.A.-T Degree: Geography**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Assess the relationship between humans and the environment.*
2. *Describe and analyze spatial patterns of geographic phenomena.*
3. *Describe geographical methodology as it pertains to spatial patterns and the application of the scientific method to global problems.*

**GENERAL EDUCATION PROGRAM**

**Certificate of Achievement: CSU-GE Pattern.**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

*Demonstrate proficiency in NATURAL SCIENCE by:*



**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

1. *Explaining how the scientific method is used to solve problems.*
2. *Describing how scientific discoveries and theories affect human activities.*

*Demonstrate proficiency in SOCIAL AND BEHAVIORAL SCIENCE by:*

1. *Describing the method of inquiry used by the social and behavioral sciences.*
2. *Describing how societies and social subgroups have operated in various times and cultures.*
3. *Analyzing the ways that individuals act and have acted in response to their societies.*

*Demonstrate proficiency in the HUMANITIES by:*

1. *Demonstrating awareness of the various ways that culture and ethnicity affect individual experience and society as a whole.*
2. *Demonstrating the ability to make well considered aesthetic judgments.*

*Demonstrate proficiency in LANGUAGE AND RATIONALITY by:*

1. *Demonstrating awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.*
2. *Demonstrating critical thinking in the analysis and production of communication.*
3. *Demonstrating the ability to find, evaluate, and use information in a variety of formats.*

*Demonstrate proficiency in HEALTH EDUCATION by:*

1. *Describing the integration of the physiological and psychological human being.*
2. *Analyzing the development of self and making plans for lifelong learning.*
3. *Evaluating the impact of daily decisions on life and health.*

**Certificate of Achievement: IGETC Pattern**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

*Demonstrate proficiency in NATURAL SCIENCE by:*

1. *Explaining how the scientific method is used to solve problems.*
2. *Describing how scientific discoveries and theories affect human activities.*

*Demonstrate proficiency in SOCIAL AND BEHAVIORAL SCIENCE by:*

1. *Describing the method of inquiry used by the social and behavioral sciences.*
2. *Describing how societies and social subgroups have operated in various times and cultures.*
3. *Analyzing the ways that individuals act and have acted in response to their societies.*

*Demonstrate proficiency in the HUMANITIES by:*

1. *Demonstrating awareness of the various ways that culture and ethnicity affect individual experience and society as a whole.*
2. *Demonstrating the ability to make well considered aesthetic judgments.*

**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

*Demonstrate proficiency in LANGUAGE AND RATIONALITY by:*

- 1. Demonstrating awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.*
- 2. Demonstrating critical thinking in the analysis and production of communication.*
- 3. Demonstrating the ability to find, evaluate, and use information in a variety of formats.*

*Demonstrate proficiency in HEALTH EDUCATION by:*

- 1. Describing the integration of the physiological and psychological human being.*
- 2. Analyzing the development of self and making plans for lifelong learning.*
- 3. Evaluating the impact of daily decisions on life and health.*

## **GENERAL STUDIES PROGRAM**

### **A.A. Degree: General Studies, Emphasis in Humanities**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

- 1. Describe how the performing and visual arts, literature, languages and the social sciences have influenced societies in various times.*
- 2. Analyze ways in which the performing and visual arts, literature, languages and the social sciences allow for individuals and social groups to form creative and critical responses to their societies and environment.*
- 3. Demonstrate awareness of the various ways that the performing and visual arts, literature, languages and the social sciences provide creative and critical venues for expressing how culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.*
- 4. Demonstrate the ability to interpret and analyze the performing and visual arts, literature, languages and the social sciences for meaning and to forge aesthetic, moral, social, political and historical judgments.*
- 5. Demonstrate critical thinking in the analysis of artistic, literary, linguistic and academic knowledge production using both thematic and historical synthesis.*

### **A.A. Degree: General Studies, Emphasis in Language & Rationality**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

- 1. Demonstrate awareness of the interactive nature of communication involving effective listening, reading, writing, and speaking.*
- 2. Demonstrate critical thinking in the analysis and production of communication.*
- 3. Demonstrate the ability to find, evaluate, and use information in a variety of formats.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**A.A. Degree: General Studies, Emphasis in Natural Sciences**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply the scientific method as a foundation for the natural sciences.*
2. *Describe evolution as it applies to life and/or the physical universe.*
3. *Describe the physical universe and/or its life forms and its natural phenomena.*
4. *Demonstrate the relationships between science and other human activities.*

**A.A. Degree: General Studies, Emphasis in Social & Behavioral Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe and demonstrate the methodology and approach employed in the study of Behavioral and Social Sciences.*
2. *Critically examine local, national, and global issues as they pertain to the study of Behavioral and Social Sciences.*

**GEOGRAPHY PROGRAM**

**A.A. Degree: University Preparation, Emphasis in Geography**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe and demonstrate the methodology and approach used in geographical study.*
2. *Describe and select examples from maps to validate geographical processes and relationships.*
3. *Critically examine geographic locations based upon physical, cultural, historical, political and economic factors.*

**GEOLOGY PROGRAM**

**A.S.-T. Degree: Geology**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Identify the rock-forming minerals, ore minerals, igneous rocks, sedimentary rocks, and metamorphic rocks, utilizing the physical and chemical properties of each.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

2. *Analyze and interpret stratigraphic columns, geologic profiles, and geologic and topographic maps to determine the geological and structural history of a given region.*
3. *Analyze the geological hazards of a given region based on identification of the tectonic and erosional processes acting on the landscape.*

## **GERONTOLOGY PROGRAM**

### **Skills Recognition: Gerontology**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate an understanding of gerontology, family systems, and the psychology of aging as it relates to individual, family, and group counseling.*
2. *Exhibit effective, communication, clinical skills, body language, and written abilities with the elderly.*
3. *Demonstrate an understanding of theoretical philosophies, biology, life span, environmental or psychosocial stressors, and the relation to gerontological counseling.*
4. *Conduct a basic assessment, interview, intervention, case plan, individual counseling, and group session with the aged.*

## **HEALTH AND PHYSICAL EDUCATION PROGRAM**

### **A.S. Degree: University Preparation, Emphasis in Health and Physical Education**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate a working knowledge of the anatomy, physiology, and microbiology of the human body in order to enter the nursing program*
2. *Demonstrate a working knowledge of the anatomy and physiology of the human body in order to enter a university level physical education program.*
3. *Succeed on the nursing board exams in sections related to these disciplines.*

## **HISTORY PROGRAM**

### **A.A.-T. Degree: History**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

1. *Describe and explain the role of politics, economics, and cultural developments on societies around the world and through time.*
2. *Critically analyze historical events in order to write an interpretation of a specific historical topic.*
3. *Engage in public discourse about current issues impacting our nation with the knowledge of how the past has shaped these issues.*

**HUMAN SERVICES PROGRAM**

**A.A. Degree: Human Services**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate an understanding of the Human Services, delivery systems, and application of the code of ethics as it relates to the Human Service profession.*
2. *Exhibit effective, communication, body language, and written abilities.*
3. *Demonstrate an understanding of theoretical orientations, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.*
4. *Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.*
5. *Conduct an elementary assessment, interview, intervention, referral, individual counseling, and group session.*

**Certificate of Achievement: Human Services**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate an understanding of the Human Services, delivery systems, and application of the code of ethics as it relates to the Human Service profession.*
2. *Exhibit effective, communication, body language, and written abilities.*
3. *Demonstrate an understanding of theoretical orientations, social problems, and the relation to clinical or group practice with individuals, families, groups, communities, and organizations.*
4. *Comprehend the wide range of Human Service employment options, historical perspectives, and the populations served.*
5. *Conduct an elementary assessment, interview, intervention, referral, individual counseling, and group session.*

**HUMANITIES PROGRAM**

**A.A. Degree: University Preparation, Emphasis in Humanities**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Analyze the ways that individuals and various cultural groups act in response to their societies and environment.*
2. *Demonstrate awareness of the various ways that culture, ethics, history, belief, and ethnicity affect individual experience and society as a whole.*
3. *Demonstrate the ability to interpret and analyze works of art for meaning and to forge aesthetic judgments.*
4. *Describe how cultural beliefs, values and practices have influenced societies in various times.*
5. *Demonstrate critical thinking in the analysis of cultural production using both thematic and historical synthesis.*

**INDUSTRIAL ELECTRONICS PROGRAM**

**A.S. Degree: Industrial Electronics**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Work successfully in the power utility, building trades, and/or manufacturing industry.*
2. *Demonstrate compliance with current engineering and electrical safety and environmental standards.*
3. *Perform basic troubleshooting and electrical-oriented repairs and installations in accordance with industry standards.*

**Certificate of Achievement: Industrial Electronics**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Work successfully in the power utility, building trades, and/or manufacturing industry.*
2. *Demonstrate compliance with current engineering and electrical safety and environmental standards.*
3. *Perform basic troubleshooting and electrical-oriented repairs and installations in accordance with industry standards.*

**INTERNATIONAL BUSINESS PROGRAM**

**Certificate of Achievement: International Business**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe economic, cultural, and ethical differences in conducting business.*
2. *Gain employment in an organization or pursue entrepreneurial aspirations in global commerce.*
3. *Explain domestic and international business practices.*

**KINESIOLOGY PROGRAM**

**A.A.-T. Degree: Kinesiology (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Consider how the body systems and structures work together to allow movement to occur.*
2. *Relate basic motor skills and patterns to concepts, theories, and methods common to Kinesiology.*
3. *Assess measurements and types of movement to evaluate individual performance.*
4. *Demonstrate preparedness to successfully continue studies in Kinesiology or a related subject at an upper-division level.*

**LANGUAGE STUDIES PROGRAM**

**A.A. Degree: University Preparation, Emphasis in Language Studies**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Converse in at least two languages.*
2. *Communicate in writing in at least two languages.*
3. *Read critically, interpret analytically, and write coherently in at least two languages.*
4. *Understand and demonstrate appreciation of cultural differences.*

**LIBERAL STUDIES PROGRAM**

**A.A. Degree: University Preparation, Emphasis in Liberal Studies**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

1. *Demonstrate competence in the fields of study central to the California state standards for the sciences, mathematics, visual and performing arts, the social sciences, and language and literature.*
2. *Define and explain the fundamental concepts of educational pedagogy including motivational theories, learning styles, and curriculum development through reflections on their coursework and classroom observations.*

**MACHINE TOOL TECHNOLOGY PROGRAM**

**A.S. Degree: Machine Tool Technology**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current machine shop safety and environmental regulations.*
2. *Perform mill, lathe, drill press, precision grinding, measurement, and basic CNC operations in accordance with industry recognized and accepted practices.*

**Skills Recognition: Machine Tool Technology 1 (changed from CERT to SR award 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current machine shop safety and environmental regulations.*
2. *Perform mill, lathe, drill press, precision grinding, measurement, and basic CNC operations in accordance with industry recognized and accepted practices.*

**Certificate of Achievement: Machine Tool Technology 2**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current machine shop safety and environmental regulations.*
2. *Perform operations using manual mills, lathes, drill press, precision grinders, conduct basic precision measurement, and program and operate basic CNC lathes and milling machines in accordance with industry recognized and accepted practices.*

**Skills Recognition: CNC Operator**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:



**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

1. *Demonstrate compliance with current CNC machining safety and environmental regulations.*
2. *Perform CNC machine shop operations in accordance with industry recognized and accepted practices.*

**Skills Recognition: CNC Programmer (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Manually format and produce a word address format code that will operate a vertical machining to center spot, drill, bore, tap, and countersink a combination of ten holes within one hour.*
2. *Produce word address format code that will operate a vertical machining center to produce a part of moderate complexity within one hour.*
3. *Manually input and properly format a word address format program that will produce a part on a CNC lathe that will have three turned diameters, at least one chamfered and one radiused edge within one hour.*

**MAINTENANCE MACHINIST PROGRAM**

**Certificate of Achievement: Maintenance Machinist 2**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current machine shop safety and environmental regulations.*
2. *Perform manual machine shop operations in accordance with industry recognized and accepted practices.*

**Skills Recognition: Maintenance Machinist 1**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current machine shop safety and environmental regulations.*
2. *Perform manual machine shop operations in accordance with industry recognized and accepted practices.*

**MARKETING PROGRAM**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**A.S. Degree: Marketing (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the marketing environment.*
2. *Apply communication strategies for various audiences and contexts.*
3. *Apply fundamental sales and marketing techniques.*

**MATHEMATICS PROGRAM**

**A.S.-T. Degree: Mathematics**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Successfully complete upper division coursework in mathematics.*
2. *Master the techniques of integration and differentiation.*
3. *Use these techniques to model real-world applications.*

**MEDICAL ASSISTING PROGRAM**

**A.S. Degree: Medical Assisting**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Provide competent medical assisting care, in variety of settings, based on the entry-level competencies for the Medical Assistant.*
2. *Communicate effectively with colleagues, patients/clients, and other members of the health care team.*
3. *Establish and maintain professional working relationships with men and women from diverse backgrounds.*
4. *Demonstrate understanding of the legal implications of healthcare and use critical thinking skills to make ethical decisions.*
5. *Set and achieve professional goals.*
6. *Make a substantial contribution to the quality of healthcare by representing the medical assisting profession with pride and dedication.*

**Certificate of Achievement: Medical Assisting**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Provide competent medical assisting care, in variety of settings, based on the entry-level competencies for the Medical Assistant.*
2. *Communicate effectively with colleagues, patients/clients, and other members of the health care team.*
3. *Establish and maintain professional working relationships with men and women from diverse backgrounds.*
4. *Demonstrate understanding of the legal implications of healthcare and use critical thinking skills to make ethical decisions.*
5. *Set and achieve professional goals.*
6. *Make a substantial contribution to the quality of healthcare by representing the medical assisting profession with pride and dedication.*

**MUSIC PROGRAM**

**A.A.-T. Degree: Music**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate musical literacy by decoding music notation through their instrument and/ or voice.*
2. *Demonstrate the ability to use basic musical notation.*
3. *Perform and stylistically interpret music on their applied instrument or voice, in an ensemble and/ or in a solo setting.*
4. *Demonstrate an awareness of the scope, variety, and structure of works in the canon of traditional western art music.*

**A.A. Degree: Music**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate musical literacy by decoding music notation through their instrument and/or voice.*
2. *Demonstrate the ability to use basic musical notation.*
3. *Perform and stylistically interpret music on their applied instrument/voice in an ensemble and/or in a solo setting.*
4. *Demonstrate an awareness of the scope, variety, structure and form of works in the canon of traditional western art music.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**NATURAL RESOURCES PROGRAM**

**A.S. Degree: Recreational Land Management**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve recreational land management problems.*
2. *Perform recreational land management practices necessary to be successful in the industry.*
3. *Apply recreational land management principles to sustainable resource management problems.*
4. *Demonstrate the effective, safe work habits and inter-personal communication skills required by employers in the recreational land management industry.*

**A.S. Degree: Soil Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Employ the scientific method to solve problems in the laboratory and in the natural environment.*
2. *Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.*
3. *Employ environmental stewardship as an operational philosophy for resource management, public education of natural resources, and wildlife management.*

**Certificate of Achievement: Recreational Land Management**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Practice safe work habits in an employment setting, including handling and storage of hazardous materials and operation of basic tools and equipment.*
2. *Apply forestry and land management skills for technical employment in the natural resource management.*
3. *Apply the principles of ecology, soil science, silviculture, cartography, and facilities maintenance and development to sustainable resources management problems.*
4. *Develop environmental stewardship as an operational philosophy for resource management, public education of natural resources, and wildlife management.*

**NETWORK ADMINISTRATION PROGRAM**

**Certificate of Achievement: Computer Network Administration**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate a firm understanding and working knowledge of basic network topologies, client and server operating system configuration, network security principals, and directory services.*
2. *Be prepared to obtain employment in an entry-level position assisting in network design and implementation.*
3. *Design, implement and document a client/server network complete with security policy and a disaster recovery plan for a small-business network.*
4. *Demonstrate professional and effective communication skills.*

**Certificate of Achievement: Computer Network Technician**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate a firm understanding and working knowledge of basic network troubleshooting techniques.*
2. *Be prepared to obtain employment in an entry-level position as a network technician and help-desk support tech.*
3. *Install, configure, upgrade and maintain personal computer hardware and operating systems.*
4. *Install, configure, and troubleshoot basic networking hardware and protocols.*
5. *Provide support for users of operating systems, applications and computer information systems.*
6. *Demonstrate professional and effective communication skills.*

**NURSING: ASSOCIATE DEGREE NURSING PROGRAM**

**A.S. Degree: Nursing (for RN)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Provide competent nursing care based on scientific principles, the Roy Adaptation Model, and the nursing process, reflecting on ethic of caring evidenced by respect for patients and families, self, colleagues, and the profession.*
2. *Identify a nursing diagnosis following assessment of the patient's physical condition and behavior, and analysis of information obtained from the patient and others, including members of the health care team.*
3. *Formulate a care plan, in collaboration with the patient that ensures direct and indirect nursing care services provide for the following patient needs: safety, comfort, hygiene, protection, disease prevention, and restorative measures.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

4. *As provider and manager of care, establish priorities, perform the skills required to carry out nursing interventions, explain the plan of care to the patient and family, and teach the patient and family how to care for identified health problems and needs.*
5. *Manage and prioritize care for groups of patients; delegate tasks to subordinates based on the legal scope of practice of the subordinates and on the preparation and competence needed for the tasks to be delegated; effectively supervise the nursing care provided by subordinates.*
6. *Evaluate the effectiveness of the care plan through observation of the patient's condition and behavior, signs and symptoms of illness, and reactions to treatment, and thorough communications with the patient and health care team; modify the plan as needed.*
7. *Advocate for the rights of patients by initiating actions to improve health care, facilitate changes in decisions or activities which conflict with patients' self-determination, and provide patients' the opportunity to make informed decisions about their health care.*
8. *Recognize that each person is a unique individual with biological, psychological, social, and spiritual needs; understand how a person's self-concept, role function, and interdependence are affected by the values, attitudes, life experiences, culture, ethnicity, and support systems of each person.*

**Skills Recognition: Nurse Assistant**

**PROGRAM LEARNING OUTCOMES**

1. *Provide competent resident care based on the skill set of a certified nurse assistant (CNA).*
2. *Complete the required hours for theory and clinical as set by the state of California.*
3. *Provide compassionate end of life care*
4. *Communicate professionally with residents, families, peers and professional staff.*
5. *Pass the state of California certification examination as a Certified Nurse Assistant (CNA).*

**OFFICE ADMINISTRATION PROGRAM**

**A.S. Degree: Office Administration**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.*
2. *Competently communicate in support of a business office, including production and design of complex electronic and paper-based correspondence and documents.*
3. *Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*
4. *Actively assist in implementing general office procedures, including records management.*
5. *Use the Internet, a wide variety of computer applications, and standard business procedures to compute, analyze business performance, and solve problems.*
6. *Efficiently perform office-related duties utilizing prioritization and necessary communication skills.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**Certificate of Achievement: Office Administration**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.*
2. *Competently communicate in support of a business office, including production and design of complex electronic and paper based correspondence and documents.*
3. *Actively assist in implementing general office procedures, including records management.*
4. *Use the Internet, a wide variety of computer applications and standard business procedures to compute, analyze business performance and solve problems.*
5. *Efficiently perform office-related duties utilizing prioritization and necessary communication skills.*

**OFFICE COMPUTER APPLICATIONS PROGRAM**

**Certificate of Achievement: Office Computer Applications**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Use the Internet, a wide variety of computer applications and standard business procedures to compute, analyze business performance and solve problems.*
2. *Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*

**OFFICE SUPPORT PROGRAM**

**Certificate of Achievement: Office Support**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Actively assist in implementing general office procedures, including records management.*
2. *Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*

**PHILOSOPHY PROGRAM**

**A. A.-T Degree: Philosophy**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Read and analyze key arguments found in primary texts from the philosophical tradition.*
2. *Construct a clearly written argument employing various philosophical tools, including consideration of counter-arguments, in the critical evaluation of a philosophical primary text.*
3. *Explain and apply deductive and inductive reasoning, critical thinking, and basic methods of formal logic.*
4. *Describe the historical development of philosophical ideas from ancient to modern philosophy, including terms employed in the discussion of these developments on fundamental questions that include topics of reality, knowledge, and value.*

**PHOTOGRAPHY PROGRAM**

**A. A. Degree: Photography**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate preparedness to successfully continue studies in art at an upper division level.*
2. *Represent and interpret aspects of their physical and social environment in a variety of photography-related media.*
3. *Plan, design, and product original works of art.*
4. *Make informed assessments of quality and effectiveness in works of art, including their own identify and distinguish various historical periods of photography-related art.*

**PHYSICAL EDUCATION PROGRAM**

**A.A. Degree: Physical Education**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Use effective written, electronic, and verbal communication techniques that demonstrate proficient research skills regarding physical activity, a clear, coherent writing style regarding physical activity, and proficient oral expression regarding physical activity.*
2. *Demonstrate competence in the major concepts and current research dealing with physical fitness and sports, demonstrating knowledge of major concepts regarding physical activity and demonstrating knowledge of journals, periodicals, and other sources of information regarding current research and sports strategies.*



**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

3. *Apply critical thinking to utilize protocols regarding the safe design and monitoring of various parameters of physical activity, demonstrating the ability to properly select, attend, and design safe activities and demonstrating knowledge of evaluation, care, and prevention of sports injuries.*
4. *Synthesize the personal and socio-cultural aspects of sport and physical activity, demonstrating the ability to analyze and interpret trends found in sport as a microcosm of society and demonstrating knowledge of proper psychological process in sport performance and motor learning sequences found in skill development.*
5. *Identify and apply basic rules and strategies of various physical activities.*

## **PHYSICS PROGRAM**

### **A.S.-T. Degree: Physics**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Use the Scientific Method to collect and analyze data in forming conclusions and to verify physical principles through measurement and experimentation.*
2. *Solve problems and predict outcomes in nature using physical laws.*
3. *State and apply physical concepts to explain phenomena encountered in our everyday world.*

## **PLANT SCIENCE PROGRAM**

### **A.S. Degree: Crop Science (UPDATED MARCH 2014)**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Apply general plant science skills for technical employment in the plant science management industry (agronomy and oleoculture).*
2. *Apply the principles of ecology, soil science, and plant science to agronomy and oleoculture crop management problems.*
3. *Develop integrated pest management programs for specific crops.*

### **A.S. Degree: Fruit Science**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

1. *Apply general plant science skills for technical employment in the plant science management industry (pomology, viticulture and enology).*
2. *Apply the principles of ecology, soil science, and plant science to pomology and viticulture management problems.*
3. *Develop integrated pest management programs for specific crops.*

**POLITICAL SCIENCE PROGRAM**

**A.A.-T Degree: Political Science**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Use critical and creative thinking to address major political problems.*
2. *Analyze key concepts and important theories in political science.*
3. *Effectively search for, interpret, and critique political science literature.*
4. *Formulate and communicate thoughtful opinions about governmental systems, political institutions, laws, and public policies.*

**PROFESSIONAL SELLING PROGRAM**

**Certificate of Achievement: Professional Selling (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the professional selling environment.*
2. *Obtain employment in an entry level sales position.*
3. *Apply communication strategies for various audiences and contexts.*

**PSYCHOLOGY PROGRAM**

**A.A.-T: PSYCHOLOGY ADOPTED 2014**

**PROGRAM LEARNING OUTCOMES**

1. *Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.*
2. *Understand and apply psychological principles to personal, social, and organizational issues.*
3. *Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.*
4. *Understand and apply basic research methods in psychology, including research design, data analysis, and interpretation.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**PSYCHOSOCIAL REHABILITATION PROGRAM**

**Skills Recognition: Psychosocial Rehabilitation (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Examine and describe psychosocial rehabilitation, family systems, and historical perspectives as it relates to the public mental health movement.*
2. *Describe and demonstrate effective communication, body language, and written abilities with children, consumers, or families.*
3. *Analyze the impact of stigma, culture, and various practice models in psychosocial rehabilitation.*
4. *Classify various theoretical philosophies, biology, co-occurring disorders, environmental or psychosocial stressors, and the relation to psychosocial rehabilitation practice.*
5. *Conduct a basic assessment, interview, intervention, referral, individual and or group counseling session with individuals that have a severe and persistent mental illness.*

**REAL ESTATE PROGRAM**

**A.S. Degree: Real Estate (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the real estate environment.*
2. *Obtain employment in an entry-level position in the real estate field.*
3. *Identify and use common California real estate practices and basic real estate terminology.*
4. *Meet the education requirement for the basic California real estate agent's and/or salesperson's license exam.*

**Certificate of Achievement: Real Estate Broker (TITLE CHANGED AS WELL AS PLOS 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the real estate environment.*
2. *Obtain employment in an entry-level position in the real estate field.*
3. *Identify and use common California real estate practices and basic real estate terminology.*
4. *Meet the education requirement for the basic California real estate agent's and/or salesperson's license exam.*

**Skills Recognition Award: Real Estate Salesperson ADOPTED 2014**

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the real estate environment.*
2. *Identify and use common California real estate practices and basic real estate terminology.*
3. *Meet the education requirement for the basic California real estate salesperson's license exam.*

## **RECORDING ARTS PROGRAM**

### **Skills Recognition: Recording Arts**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate effective use of current music technology as applied to recording and music production.*
2. *Record, mix and master an acoustic music group with multiple tracks and microphones, burn the work to a CD and present the work as a complete project.*
3. *Demonstrate the ability to select and correctly place microphones for sound capture.*
4. *Identify elements of sound and acoustics.*
5. *Create an electronic music composition using music technology and basic music compositional skills.*
6. *Demonstrate the ability to make a live recording of a musical group or large ensemble.*
7. *Summarize the evolution of American popular music genres.*

## **RECORDS MANAGEMENT PROGRAM**

### **Certificate of Achievement: Records Management/Data Entry Specialist**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Actively assist in implementing general office procedures, including records management.*
2. *Efficiently perform office-related duties utilizing prioritization and necessary communication skills.*
3. *Utilize computer software to manage data effectively.*

## **RESPIRATORY CARE PROGRAM**

### **A.S. Degree: Respiratory Care**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

1. *Demonstrate mastery of all duties/functions relevant to and authorized by the provisions of the California State Respiratory Care Practice Act and the Committee on Accreditation of Respiratory Care (CoARC).*
2. *Demonstrate and uphold safe, quality respiratory care standards.*
3. *Show an awareness of the psychological and emotional needs of the patient.*
4. *Demonstrate mastery of the respiratory care duties/functions and render safe, effective quality respiratory care in an ethical manner for the welfare of both the patient and Respiratory Care profession.*
5. *Identify a diagnosis following assessment of the patient's physical condition and behavior, based on analysis of information obtained from the patient and others, including the health care team.*
6. *Evaluate the effectiveness of the care plan through observation of the patient's condition and behavior, signs and symptoms of disease, test results, reactions to treatment and thorough communication with the patient and the health care team; make appropriate modifications to the plan as needed.*
7. *Assume increasing responsibility for their own learning and develop habits, interests, and attitudes favorable to lifelong learning.*
8. *Successfully complete all required Respiratory Care curriculum in order to receive an A.S. degree in Respiratory Care.*
9. *Pass the National Board for Respiratory Care Examination for Certification as a Respiratory Care Practitioner as well as the Advanced Practitioner Exam.*

## **RETAIL MANAGEMENT (WAFC) PROGRAM**

### **Certificate of Achievement: Retail Management (WAFC) (UPDATED FOR 2014)**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the retail selling environment.*
2. *Obtain employment in a retail management position.*
3. *Apply communication strategies for retail selling environment.*

## **SOCIOLOGY PROGRAM**

### **A.A.-T. DEGREE: SOCIOLOGY**

#### **PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this program, the student will be able to:

1. *Explain major sociological theories and relevant concepts.*
2. *Critically evaluate and apply theoretical concepts to specific sociological phenomenon.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**SPANISH PROGRAM**

**A.A. Degree: Spanish:**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Communicate orally in Spanish in real-life situations at an advanced high proficiency level.*
2. *Demonstrate proficiency in the comprehension of oral messages.*
3. *Demonstrate proficiency in oral expression in Spanish.*
4. *Understand someone else speaking about a discipline-related topic and be able to engage that person in discussion.*
5. *Communicate in writing in Spanish at an advanced high proficiency level with minimal errors in grammar, spelling and the mechanics of writing.*
6. *Write clear and coherent essays in Spanish on various topics related to everyday situation and work.*
7. *Exhibit research skills for producing papers including familiarity with library resources and the ability to gather and synthesize information.*
8. *Exhibit the ability to properly quote, paraphrase, and summarize other texts.*
9. *Read critically, interpret analytically, and write coherently about literatures produced in Spanish.*
10. *Analyze and interpret a variety of literary and cultural texts.*
11. *Write clear and coherent essays in Spanish on literary topics.*
12. *Apply critical thinking skills as they read texts.*
13. *Interpret the use of rhetorical and literary techniques.*
14. *Understand and demonstrate appreciation of the cultural values of Spanish-speaking peoples.*
15. *Identify significant individuals and major historical events and developments within Spanish speaking nations and cultures.*
16. *Analyze social, ethnic, and linguistic diversity in the Spanish-speaking world.*
17. *Compare and contrast the differences and similarities between the U.S. and the Spanish-speaking culture.*

**SUPERVISORY MANAGEMENT PROGRAM**

**A.S. Degree: Supervisory Management (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment in an entry-level supervisory position within industry and/ or government sectors.*
3. *Use appropriate and effective business communication skills.*

**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

**Certificate of Achievement: Supervisory Management (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Recognize and analyze ethical issues as they apply to the business environment.*
2. *Obtain employment in an entry-level supervisory position within industry and/ or government sectors.*
3. *Use appropriate and effective business communication skills.*

**THEATRE PROGRAM**

**A.A.-T. Degree: Theatre Arts**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate knowledge of theatre from an historical perspective.*
2. *Demonstrate an understanding of time management, commitment, follow-through, and responsibility to achieve a common goal.*
3. *Creatively analyze, critique, and interpret works of theatrical art.*
4. *Demonstrate an understanding of and empathy for racial, ethnic and cultural diversity of U.S. and world theatre.*
5. *Express creativity in the artistic process.*

**A.A. Degree: Theatre (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Distinguish and describe different practices in World Theater based on history, culture, ethnicity and race.*
2. *Evaluate theater productions by describing the artistic and collaborative processes that were involved in the creation of the production.*
3. *Apply acting and technical skills to create a theatrical piece of art.*

**Skills Recognition: Design & Technical Theatre (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Describe how theatre artists collaborate in order to create a theatrical production.*
2. *Analyze a script in terms of themes, place, time period, style, plot, genre and mood as applied to scenery, costume and lighting planning and design.*
3. *Demonstrate how to safely use common lighting instruments and accessories in the course of lighting a dance concert or play.*
4. *Draw a basic makeup design for a face.*
5. *Demonstrate knowledge of stage and shop safety rules and safe working practices in an applied situation.*
6. *Organize the necessary paperwork and schedule to prepare and run rehearsals and performances.*

**Skills Recognition: Theatre Performance**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Solve memorization and other problems of scene preparation.*
2. *Employ advanced acting techniques for character development, physical and vocal warm ups and performance preparation.*
3. *Analyze a script verbally and/or in writing in terms of theme, character and motivational units.*
4. *Demonstrate the ability to improve a performance after receiving a critique from a director.*
5. *Properly cut and edit performance material from larger works.*

**WELDING PROGRAM**

**A.S. Degree: Welding**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Demonstrate compliance with current welding industry safety and environmental regulations.*
2. *Perform welding operations in accordance with structural, manufacturing, and food processing industries' recognized and accepted practices.*

**Skills Recognition: Design & Fabrication**

**PROGRAM LEARNING OUTCOMES**



**Program Learning Outcomes from 2014-2015 Catalog  
151 AWARDS**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Develop and interpret various types of fabrication prints.*
2. *Develop and interpret weld and welding symbols.*
3. *Using the required welding and sheet metal equipment, perform typical metal fabrication operations.*

**Skills Recognition: Gas Metal Arc Welding and Gas Tungsten Arc Welding (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Select GTAW tungsten electrodes and GMAW/FCAW electrode wires required to complete typical welding procedures.*
2. *Make appropriate set up adjustments on GTAW/GMAW equipment required to complete typical welding procedures.*
3. *Fit up and prepare typical weld joint designs according to industry codes and standards.*
4. *Using GTAW/GMAW equipment, perform welding procedures and create welds that meet industry codes and standards.*

**Skills Recognition: Pipe Welding (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Identify and fit-up various pipe fittings and hangers.*
2. *Identify and select appropriate pipe hangers.*
3. *Calculate and fit up typical joint off-sets.*
4. *Perform typical welding procedures according to industry codes and standards using the SMAW process.*

**WORD PROCESSING PROGRAM**

**Certificate of Achievement: Word Processing (UPDATED FOR 2014)**

**PROGRAM LEARNING OUTCOMES**

Upon satisfactory completion of this award, the student should be prepared to:

1. *Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.*

**Program Learning Outcomes from 2014-2015 Catalog**  
**151 AWARDS**

2. *Competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.*