PALO VERDE COLLEGE

Curriculum for Board of Trustees Approval

(Approved by Curriculum Committee April 11, 2013)
(CHANGES EFFECTIVE FALL 2013 UNLESS NOTED)

DESCRIPTION OF COURSES SECTION

DESCRIPTION OF COURSES (Pages 83-168)

NEW COURSES:

AUTOMOTIVE TECHNOLOGY

AUT 107 BEGINNING AUTOMOTIVE TECHNOLOGY
3 units **Course length: 54 hours lecture**
This course provides a general introduction to the discipline of automotive service, and then guides students through the first three ASE certification areas. The areas addressed in this course include: Introductory Concepts and Techniques, Engine Repair, and Electrical/Electronic Systems. Its unique emphasis is on diagnosis; diagnostic stories and tech tips are included throughout to help illustrate how real problems are solved. Each new topic covers the parts involved plus the purpose, function, and operation, as well as how to test and diagnose each system. It accurately reflects the information and skills needed in today's workplace.

AUT 108 BRAKES, SUSPENSION, STEERING, DRIVE TRAINS, AND TRANSMISSIONS
3 units **Course length: 54 hours lecture**
This course provides a general introduction to the discipline of automotive service, and then guides students through three ASE certification areas. The areas addressed in this course include: Brakes, Suspension and Steering, Manual Drive Trains and Axels, and Automatic Transmissions and Transaxles. Its unique emphasis is on diagnosis; diagnostic stories and tech tips are included throughout to help illustrate how real problems are solved. Each new topic covers the parts involved plus the purpose, function, and operation, as well as how to test and diagnose each system. It accurately reflects the information and skills needed in today's workplace.

AUT 109 ENGINE PERFORMANCE, HEATING, AND AIR CONDITIONING
3 units **Course length: 54 hours lecture**
This course provides a general introduction to the discipline of automotive service, and then guides students through three ASE certification areas. The areas addressed in this course include: Heating, Air Conditioning, and Engine Performance. Its unique emphasis is on diagnosis; diagnostic stories and tech tips are included throughout to help illustrate how real problems are solved. Each new topic covers the parts involved plus the purpose, function, and operation, as well as how to test and diagnose each system. It accurately reflects the information and skills needed in today's workplace.

EMERGENCY MEDICAL SERVICES

EMS 080 SUPPLEMENTAL SKILLS FOR EMS, HEALTHCARE, NURSING, & LAW ENFORCEMENT
.25-24 units **Course length: 5-362 hours laboratory**
This is a supplemental skills course for students who need and/or want additional assistance and review in EMT, EMS, health, biological sciences and nursing courses. This course is a Pass/No Pass variable unit class. Enrollment is open entry/open exit and students must meet minimum attendance in order to receive credit. The purpose of this course is to provide computer assisted instruction and/or supplementary materials, as well as study and research assistance.

EMS 105 CPR/AED & FIRST AID

.25 units **Course length: 4 hours lecture, 4 hours laboratory**

This course is designed to teach CPR/AED & First Aid methods and update those methods according to the most current standards. This course meets the standards set by the American Red Cross and the American Heart Association. This course may be taken as needed for legal mandated training or certification.

EMS 110 CARDIOPULMONARY RESUSCITATION (CPR)

.25 units **Course length: 4 hours lecture, 4 hours laboratory**

This course is designed to teach Cardiopulmonary Resuscitation (CPR) methods and update those methods according to the most current standards. This course meets the standards set by the American Red Cross and the American Heart Association. This course may be taken as needed for legal mandated training or certification.

EMS 160 EMERGENCY MEDICAL TECHNICIAN

4-13 units **Course length: 60-100 lecture hours, 60-100 laboratory hours, 24 clinic/field hours**

Pre-requisites: Must be 18 years of age to register. Must have current Healthcare Providers CPR card.

The Emergency Medical Technician course is approved by the Riverside County Health Services Agency Emergency Medical Services Division). The purpose of the EMT training program is to prepare the individual to render basic life support at the scene of an emergency, during transport of the sick and injured, or during inter-facility transport within an organized Emergency Medical Services (EMS) System. The course emphasizes demonstration of competency and proficiency in the required skills. The course is recommended for ancillary medical emergency personnel. The student must be 18 years of age to register. Passing score is at least 80% for the individual's name to be submitted for National Registry Testing for certification processing. The variable hours for the EMT course are determined by the various county Emergency Medical Services Agency. For Riverside County Students, a passing score of at least 80% is also sent to Riverside County EMS Authority for certification processing. The course includes additional clinical time at hospital and ambulance setting. Upon completion the student will have met the required standards and be eligible to register for the National Registry Emergency Medical Technician (NREMT) - Basic Examination. This course is required for ambulance personnel.

EMS 161 EMERGENCY MEDICAL TECHNICIAN REFRESHER

1-1.5 units **Course length: 24 hours lecture, 0-8 hours laboratory**

Pre-requisites: Current Emergency Medical Technician – current license or no more than 6 months expired license.

The EMT Refresher course contains information on current EMT Techniques, procedures and local protocols; provides a review of the skills and knowledge covered in EMT Basic course in order to meet recertification. The course is designed for recertification of a current EMS License or EMT card that has not expired for more than six (6) months. Skills verification and passing performance on written examinations are required for course completion.

EMS 162 EMERGENCY MEDICAL TECHNICIAN CHALLENGE

0 units **Course length: 6.5 hours clinic/field**

Pre-requisites: Verification of Eligibility per Department of Public Health Emergency Medical Service Agency. Current HealthCare Provider CPR card.

As defined by Title 22, there are situations were other licensed medical professionals or certain members of the Armed Forces may sit for the EMT basic training course. The applicant must successfully pass the full and complete test for EMT basic training, both written and skills. The applicant upon successful completion of the written and skills test will receive a "Challenge" certificate for submission to the Emergency Services Agency. The Challenge exam will be offered only during the final exam week of the semester in which the EMT program is offered.

FIRE SCIENCE TECHNOLOGY

FST 219 RESCUE SYSTEMS 3

.75 units **Course length: 8 hours lecture, 16 hours laboratory**

Prerequisite: Rescue Systems 2, Confined Space Rescue Technician, Trench Rescue

This course bridges the training gap between the California State Fire Training Rescue Systems 2 Advanced Rescue Skills course and the Federal Emergency Management Agency Structural Collapse Technician course. Key topics include: powder actuated tools, pneumatic shores, additional tools and techniques for breaking and breaching, cutting a tensioned cable, the "O" course, rigging, and crane operations. This course may be offered as Credit/No-Credit.

FST 240 FIRE PREVENTION 1

1.5 units **Course length: 28 hours lecture, 5 hours clinic/field**

This course provides fire prevention, suppression, public education, and fire investigation personnel with a broad technical overview of fire prevention function, responsibility and authority; relates fire protection and life safety to building construction; introduces types and operating principles of fire protection and detection systems; explores the elements of a company inspection program, and provides the principles and procedures for fire inspections. Satisfies part of the California Office of State Fire Marshal Certification Training Standards for Company Officer. This course may be offered as Credit/No-Credit.

WELDING TECHNOLOGY

WEL 120 INTRODUCTORY WELDING PRINCIPLES AND PRACTICES

3 units **Course length: 54 hours lecture**

This course provides a general introduction to the discipline of welding technologies and then guides students through various methods and applications of welding. The areas addressed in this course include: Welding Fundamentals, Shielded Metal Arc Welding, Gas Tungsten and Gas Metal Arc Welding, and Arc Cutting. This course will provide real-world scenarios which will help prepare the student for the various welding applications. This course accurately reflects the information and skills needed in today's workplace.

WEL 121 PRINCIPLES AND PRACTICES OF METAL TECHNOLOGY AND PROFESSIONAL WELDING

3 units **Course length: 54 hours lecture**

This course provides a general introduction to the discipline of welding technologies and then guides students through various methods and applications of welding. The areas addressed in this course include: Metal Technology and Professional Welding. This course will provide real-world scenarios which will help prepare the student for the various welding applications. This course accurately reflects the information and skills needed in today's workplace.

WEL 122 RESISTANCE WELDING AND SPECIAL WELDING APPLICATIONS

3 units **Course length: 54 hours lecture**

This course provides a general introduction to the discipline of welding technologies and then guides students through various methods and applications of welding. The areas addressed in this course include: Oxyfuel Gas Processes, Resistance Welding, and Special Processes. This course will provide real-world scenarios which will help prepare the student for the various welding applications. This course accurately reflects the information and skills needed in today's workplace.

REVISED COURSES:

BIOLOGY

BIO 101 INTRODUCTION TO BIOLOGY LABORATORY

1 unit ~~Course length: 36 hours laboratory~~

Course length: 54 hours laboratory

Laboratory exposure to biological phenomena including microscope activities of cells, osmosis, diffusion, invertebrate structures, vertebrate structures, plant growth, fertilization in animals and plants. BIO 101 may be taken concurrently with BIO 100 or independent of BIO 100. Not for Biology major credit.

FIRE SCIENCE TECHNOLOGY

FST 162 **IS-**300 INTERMEDIATE INCIDENT COMMAND SYSTEMS (ICS)

~~1.25 units~~ ~~Course length: 24 hours lecture~~

1-1.25 units **Course length: 18-24 hours lecture**

Prerequisite: FST 159

~~This course enables the student to understand nationally accepted Incident Command System (ICS) under NIMS that deals in the affairs of all risk management system. This is a system that is indicated by law (Federal & State) to be used in all risk emergencies. The student will be lectured on the management positions established by the ICS. This course may be offered Pass/No Pass.~~

This course provides description and detail of the Incident Command System (ICS) organization and operations in supervisory roles on expanding or Type 3 incidents. Topics include: ICS fundamentals review, incident/event assessment and agency guidance in establishing incident objectives, unified command, incident resource management, planning process, demobilization, transfer of command, and close out. This course may be offered as Pass/No Pass.

FST 163 IS-400 ADVANCED INCIDENT COMMAND SYSTEM (ICS)®

~~1.25 units~~ ~~Course length: 22 hours lecture~~

1 units **Course length: 16 hours lecture**

Prerequisite: ~~Must be employed as a first responder or obtain instructor permission and have successfully complete FST 150.~~ ***FST 162***

~~This Advanced Incident Command System course enables the student to understand nationally mandated NIMS Incident Command System (ICS) that deals in the all risk management of emergencies. This is a system that is indicated by law (Federal & State) to be used in all incident levels including Type 1 through 5. The student will be lectured on the management positions established by the ICS. This is a repeatable course and may be offered as Pass/No Pass.~~

This course directs the student towards an operational understanding of large single-agency and complex multi-agency/multi-jurisdictional incident responses. Topics include the review of fundamentals for command and general staff, major and/or complex incident/event management, area command, and multi-agency coordination. This course may be offered as Pass/No Pass.

UPDATED COURSES:

MAN 106 PERSONNEL MANAGEMENT

COURSES APPROVED FOR CORRESPONDENCE EDUCATION:

AUT 107 BEGINNING AUTOMOTIVE TECHNOLOGY
AUT 108 BRAKES, SUSPENSION, STEERING, DRIVE TRAINS, AND TRANSMISSIONS
AUT 109 ENGINE PERFORMANCE, HEATING, AND AIR CONDITIONING
MAN 106 PERSONNEL MANAGEMENT
WEL 120 INTRODUCTORY WELDING PRINCIPLES AND PRACTICES
WEL 121 PRINCIPLES AND PRACTICES OF METAL TECHNOLOGY AND PROFESSIONAL WELDING
WEL 122 RESISTANCE WELDING AND SPECIAL WELDING APPLICATIONS

COURSES APPROVED FOR DISTANCE EDUCATION:

EMS 160 EMERGENCY MEDICAL TECHNICIAN
EMS 161 EMERGENCY MEDICAL TECHNICIAN REFRESHER
EMS 162 EMERGENCY MEDICAL TECHNICIAN CHALLENGE
MAN 106 PERSONNEL MANAGEMENT

COURSES/PROGRAMS TO BE DELETED FROM THE CATALOG:

HEA 080 SUPPLEMENTAL SKILLS FOR HEALTH AND NURSING
HEA 142 COMMUNITY FIRST AID
HEA 159 FIRST RESPONDER MEDICAL
EMERGENCY MEDICAL TECHNICIAN REFRESHER