

ELECTRONICS: COMPUTER TECHNICIAN: BASIC

CERTIFICATE OF PROFICIENCY

CAREER/TECHNICAL (MAJOR CODE: A2908)

Provides intensive training in the operation and maintenance of computers, computer peripherals, and computer networks.

Program Student Learning Outcome Statement

- Students will be able to use classroom materials to successfully prepare to sit for and to pass the CompTIA A+ and Security+ examinations.
- Students will use reasoning to be able to resolve any problem that may be encountered with a computer or a computer network.
- Students will be able to work effectively with diverse groups of people with much more or much less education and/or experience than themselves.
- Student will be able to use all available materials to solve problems that they encounter while working with computers or networks.

ELEC 109/CIS 119	Office Support and Network Technician (6)	
	OR	6-8
ELEC/CIS 10A	Microcomputer Repair and Service (2)	
	AND	
ELEC/CIS 10B	Microcomputer Hardware and Software Upgrade (2)	
	AND	
ELEC/CIS 14	Office Automation Equipment Repair (2)	
	AND	
ELEC 15	Data, Voice, and Video Cable Installation (2)	
ELEC 260	Microcomputer Systems and A+ Certification	4
ELEC 266	Network Management for Technicians	4
CIS 139	Windowing Environments	1
Total units		15-17

EMERGENCY MEDICAL TECHNOLOGY AND PARAMEDIC

HIGHER EDUCATION CENTER AT OTAY MESA

DEAN: Silvia Cornejo, M.A., Office 4118D, 619-216-6755

FACULTY: Ronald Ungar, M.A.; Jason Hums, M.P.H

DEPARTMENT CHAIR: Ronald Ungar, M.A.

DIRECTOR: Devin Price, M.S.

GENERAL DESCRIPTION

Emergency medical technology and paramedic is the study of emergency medical care and the evaluation and treatment of injuries. These programs focus on both technical and practical knowledge while providing requisite skills to evaluate and treat a wide variety of medical and trauma emergencies in the prehospital setting. Students learn to administer medication, start intravenous lines, interpret EKG rhythm strips, and defibrillate patients in cardiac arrest, as well as to administer many other advanced life support procedures.

CAREER OPTIONS

Below is a sample of the career options available for the emergency medical or paramedic major. Most require an associate degree, some require a bachelor's degree, and a few of these require a graduate-level degree: emergency medical technician, paramedic, vocational teacher, college instructor, search and rescue responder, hospital technician, and emergency room technician.

DEGREE/CERTIFICATE OPTIONS

MAJOR CODE

Associate in Science Degree: Career/Technical

Emergency Medical Technology and Paramedic	02340
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Certificate of Achievement

Emergency Medical Technology and Paramedic	02341
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Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.



ASSOCIATE IN SCIENCE DEGREE

EMERGENCY MEDICAL TECHNOLOGY AND PARAMEDIC

ASSOCIATE IN SCIENCE DEGREE CAREER/TECHNICAL (MAJOR CODE: 02340)

Prepares students to give prehospital emergency care with classroom work and training in hospitals and in first-response vehicles in the field. Upon program completion, the students are eligible to take the exam for national certification. Students desiring to earn the associate in science degree should consult a counselor.

Entrance into the Paramedic Program has special application requirements and deadlines. For more information, please visit www.swccd.edu/paramedic.

Program Student Learning Outcome Statement

- Graduate is consistently able to communicate complete and accurate patient assessment findings to EMS and healthcare team members.
- Consistently performs a thorough exam with appropriate inquiry and inspection pertinent to the patient's chief complaint. Findings are accurate.
- Consistently builds rapport with patient, family and bystanders and shows consideration and respect for others.

DEPARTMENT ACCEPTANCE REQUIRED FOR THIS PROGRAM.

PREREQUISITES:

BIOL 190	Human Anatomy and Physiology	4
EMT 113	Emergency Medical Technician—Basic (Theory)	5
EMT 113L	Emergency Medical Technician—Basic (Laboratory)	3

FIRST SEMESTER

EMTP 200	Advanced Life Support Paramedic Theory I	12
EMTP 200L	Advanced Life Support Paramedic Laboratory I	3
EMTP 202	EMS Community Experience I	1.5

SECOND SEMESTER

EMTP 201	Advanced Life Support Paramedic Theory II	12
EMTP 201L	Advanced Life Support Paramedic Laboratory II	3
EMTP 203	EMS Community Experience II	1.5

SUMMER SESSION

EMTP 225	Hospital Clinical Experience for Paramedics	3
EMTP 230	Field Training for Paramedics I	8
EMTP 231	Field Training for Paramedics II	1
Total units		57

Required courses for an associate in science degree

COMM 104	Public Speaking (3) OR	3
COMM 174	Interpersonal Communication (3)	
ENGL 115	College Composition: Reading and Writing Analytically (4) OR	4
ENGL 116	Critical Thinking and Composition (4)	
PSYC 101	General Psychology	3
Total units		10

Recommended Elective: SOC 135.

To earn an associate degree, additional general education and graduation requirements must be completed. See page 64.

EMTP Credit

Licensed paramedics may be granted college units toward an associate in arts degree if they are currently licensed by the State of California. The student may receive a maximum of 6.5 units for previous EMT-1 training. The student may receive a maximum of 35 units for previous EMTP training.

Note: Grade of "C" is required for each course for progression and completion.

CERTIFICATE

EMERGENCY MEDICAL TECHNOLOGY AND PARAMEDIC

CERTIFICATE OF ACHIEVEMENT

CAREER/TECHNICAL (MAJOR CODE: 02341)

Entrance into the Paramedic Program has special application requirements and deadlines. For more information, please visit www.swccd.edu/paramedic.

Program Student Learning Outcome Statement

- Graduate is consistently able to communicate complete and accurate patient assessment findings to EMS and healthcare team members.
- Consistently performs a thorough exam with appropriate inquiry and inspection pertinent to the patient's chief complaint. Findings are accurate.
- Consistently builds rapport with patient, family and bystanders and shows consideration and respect for others.



GAINFUL EMPLOYMENT:

The U.S. Department of Education requires colleges to disclose a variety of information for any financial aid eligible program that “prepares students for gainful employment in a recognized occupation.”

Students who complete this program will have acquired the necessary analytical tools to successfully secure gainful employment in the field of study.

For more information regarding the data provided for this program and what it means to you as a student, please feel free to visit our SWC Gainful Employment website at: www.swccd.edu/gainfulemployment.

PREREQUISITES

BIOL 190	Human Anatomy and Physiology	4
EMT 113	Emergency Medical Technician—Basic (Theory)	5
EMT 113L	Emergency Medical Technician—Basic (Laboratory)	3
Total units		12

FIRST SEMESTER

EMTP 200	Advanced Life Support Paramedic Theory I	12
EMTP 200L	Advanced Life Support Paramedic Laboratory I	3
EMTP 202	EMS Community Experience I	1.5

SECOND SEMESTER

EMTP 201	Advanced Life Support Paramedic Theory II	12
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EMTP 225	Hospital Clinical Experience for Paramedics	3
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Total units		57

ENGINEERING

SCHOOL OF MATHEMATICS, SCIENCE, AND ENGINEERING

DEAN: Michael Odu, Ph.D., Office 215A, 619-482-6344

FACULTY: Lauren Zinola, M.A.

DEPARTMENT CHAIR: Jeffrey Veal, Ph.D.

GENERAL DESCRIPTION

Engineering focuses on the application of scientific principles and knowledge of mathematics to create solutions for problems involving human, biological, and mechanical systems. Engineering is a broad discipline of related areas of study including civil, mechanical, electrical, computer, and industrial.

CAREER OPTIONS

Below is a sample of the career options available for the engineering major. A few of these require an associate degree, most require a bachelor's degree, and some require a graduate-level degree: technician, engineer's assistant, civil engineer, urban planner, biomedical engineer, electronics engineer, computer engineer, software designer, telecommunications specialist, computer architect, test engineer, environmental engineer, soil engineer, aerospace engineer, CADD specialist, product engineer, estimator, technical sales representative, construction manager, and general contractor.

DEGREE/CERTIFICATE OPTIONS**MAJOR CODE****Associate in Science Degree: Transfer Preparation**

Engineering	01565
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Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

ASSOCIATE IN SCIENCE DEGREE

ENGINEERING

**ASSOCIATE IN SCIENCE DEGREE
TRANSFER PREPARATION * (MAJOR CODE: 01565)**

Provides a student the opportunity to complete all of the lower-division courses required for transfer to a university to pursue a degree in engineering. Designed to prepare a student for a professional career in industry, business, or government. The core courses provide the technical knowledge and skills for students who are interested in aerospace, chemical, mechanical, or nuclear engineering.

Students entering the engineering program as freshmen will be building upon their high school mathematics and physical science background. High school preparation should include algebra, geometry and trigonometry, chemistry, physics, and a course in technical drafting.

