

CUYAMACA COLLEGE
ACADEMIC PROGRAM CHANGES
March 2022
for the
2022-2023 CATALOG

COURSE ADDITIONS

ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT 140 – LABORATORY SAFETY MANAGEMENT **4 UNITS**

Prerequisite: None

4 hours lecture

An overview of laboratory safety management which may be performed by a safety technician in biotechnology, chemical manufacturing, university and private laboratory settings. Topics include recognition, evaluation and control of laboratory hazards associated with chemicals, radioactive materials, lasers, animals, laboratory equipment, and biological materials. Emphasis will be on environmental health and safety management duties performed in laboratory settings.

CSU

ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT 250 – EHS FIELD APPLICATIONS **3 UNITS**

Prerequisite: "C" grade or higher or "Pass" in EHSM 100 or equivalent

1 hour lecture, 6 hours laboratory

Field experiences will enhance student abilities to perform various Environmental Health and Safety Management (EHSM) applications under the direction of a qualified EHS professional. Applied experience will provide students with important workplace critical thinking, written and verbal communication, and technical skills difficult to learn in the classroom environment.

CSU

PSYCHOLOGY 132 – PSYCHOLOGY OF HEALTH **3 UNITS**

Prerequisite: None

3 hours lecture

The goal of health psychology is to understand the psychological influences on health behavior, including promotion, maintenance, prevention and treatment. The course will focus on the etiology and correlates of health and illness, as well as analyze the health care system and the formulation of health and illness, as well as analyze the health care system and the formulation of health policies within the United States. Specific emphasis will be placed on exploring health disparities among historically underrepresented groups, including African Americans, Native Americans, Asian Americans, and Latino/a/x Americans.

AA/AS GE, CSU

COURSE MODIFICATIONS

The following reflect changes in subject designator, course number and/or title, prerequisite/corequisite/recommended preparation, units, hours, and/or course description. Other areas (e.g., course objectives, course content, student learning outcomes, etc.) may also have been modified to meet Title 5 standards (reflected as *“Review and update of course outline”*). These modifications have been carefully reviewed by the Curriculum, General Education and Academic Policies and Procedures Committee.

PRESENT	PROPOSED CHANGES TO AREAS AS INDICATED
ANTHROPOLOGY 120 – CULTURAL ANTHROPOLOGY	<i>Review and update of course outline</i>
ANTHROPOLOGY 130 – INTRODUCTION TO PHYSICAL ANTHROPOLOGY	INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY
BUSINESS 112 – CRAFT ENTREPRENEUR This course provides an introductory view of today’s craft industry. Specific topics will include an introduction to craft industry entrepreneurship, government assistance programs, project management, customer relationship management, information technology, and exploring ethical and social responsibilities.	This course provides an introductory view of today’s craft industry entrepreneurs whose businesses specialize in goods that are handmade by artisans or those skilled in a particular trade. Small businesses engaged in the craft industry range from beverages and culinary products to handmade textiles and art, and everything in between. Specific topics will include an introduction to craft industry entrepreneurship, government assistance programs, project management, customer relationship management, social networking and marketing, and exploring ethical and social responsibilities.
BUSINESS 195 –PRINCIPLES OF MONEY MANAGEMENT FOR SUCCESS	<i>Review and update of course outline</i>
BUSINESS OFFICE TECHNOLOGY 102A – INTERMEDIATE KEYBOARDING/DOCUMENT PROCESSING I	<i>Review and update of course outline</i>
BUSINESS OFFICE TECHNOLOGY 102B – INTERMEDIATE KEYBOARDING/DOCUMENT PROCESSING II	<i>Review and update of course outline</i>
BUSINESS OFFICE TECHNOLOGY 103B – BUILDING KEYBOARDING SKILL II	<i>Review and update of course outline</i>
BUSINESS OFFICE TECHNOLOGY 103C – BUILDING KEYBOARDING SKILL III	<i>Review and update of course outline</i>
BUSINESS OFFICE TECHNOLOGY 107 – OFFICE SYSTEMS AND PROCEDURES Prerequisite: None Recommended Preparation: “C” grade or higher or “Pass” in BOT 096, 101AB, 119 or equivalent or concurrent enrollment Study of office ethics and professionalism; prioritizing and productivity; human relations; working in teams; customer service skills; telephone skills; scheduling appointments; using email, copiers, fax machines and scanners; handling office mail; and using the Internet for common office functions such as travel reservations and ordering supplies.	Prerequisite: None Recommended Preparation: “C” grade or higher or “Pass” in BOT 101AB, 119 or equivalent or concurrent enrollment Content includes office ethics and professionalism; prioritizing and productivity; human relations; working in teams; customer service skills; telephone skills; scheduling appointments; using email, use of applications and devices to transmit documents; handling office mail; and using the Internet for common office functions such as travel reservations and ordering supplies.
BUSINESS OFFICE TECHNOLOGY 132 – GOOGLE APPLICATIONS FOR BUSINESS In this course, students learn how to use Google Apps, a collection of free Web-based productivity tools, in a business environment. Topics include Google Search, Gmail, Google Calendar, Google Docs, Google Spreadsheets, Google Presentations, and emerging trends in Google Apps. Students use the internet to access their files and the tools to manipulate and collaborate with them.	In this course, students learn how to use Google Apps, a collection of free Web-based productivity tools, in a business environment. Topics include Google Search, Gmail, Google Calendar, Google Docs, Google Sheets, Google Slides, and emerging trends in Google Apps. Students use the internet to access their files and the tools to manipulate and collaborate with them.
COMPUTER AND INFORMATION SCIENCE 261 – NSSA DEGREE CAPSTONE Prerequisite: Completion of 30+ units with a “C” grade or higher or “Pass” from the following courses: CIS 120, 121, 125, 140, 190, 191, 201, 202, 203, 204, 209, 210, 262, 263, 290, 291, 293, 294, 295, CS 119, 119L or equivalent	Prerequisite: Completion of 30+ units with a “C” grade or higher or “Pass” from the following courses: CIS 120, 121, 125, 140, 190, 191, 201, 202, 203, 209, 210, 262, 263, 290, 291, 293, 294, 295, CS 119, 119L or equivalent
COMPUTER AND INFORMATION SCIENCE 265 – COMPUTER FORENSICS FUNDAMENTALS Prerequisite: Completion of CIS 264 with grades of "C" or better	Prerequisite: “C” grade or higher in CIS 264 or equivalent
COMPUTER AND INFORMATION SCIENCE 295 – VMWARE CERTIFIED PROFESSIONAL	<i>Review and update of course outline</i>

PRESENT	PROPOSED CHANGES TO AREAS AS INDICATED
COMPUTER SCIENCE 282 – INTERMEDIATE JAVA PROGRAMMING AND FUNDAMENTAL DATA STRUCTURES	<i>Review and update of course outline</i>
CENTER FOR WATER STUDIES 100 – CAREER PATHWAYS IN WATER & WASTEWATER	<i>Review and update of course outline</i>
CENTER FOR WATER STUDIES 106 – ELECTRICAL & INSTRUMENTATION PROCESSES	<i>Review and update of course outline</i>
CENTER FOR WATER STUDIES 112 – WATER TREATMENT PLANT OPERATIONS	<i>Review and update of course outline</i>
CENTER FOR WATER STUDIES 212 – ADVANCED WATER TREATMENT PLANT OPERATIONS	<i>Review and update of course outline</i>
ETHNIC STUDIES 107 – HISTORY OF RACE & ETHNICITY IN THE UNITED STATES An introduction to the historical and socio-cultural experiences of racial and ethnic groups and their roles in shaping society and culture in the United States, from pre-contact to the present. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, liberation movements, and the intersection of racial, ethnic, gender, sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, Native Americans, and Middle Eastern Americans. <i>Also listed as HIST 107. Not open to students with credit in HIST 107.</i>	An introduction to the social, cultural, and historical experiences of racial and ethnic groups and their roles in shaping the United States. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, resistance and agency, liberation movements, and the intersection of racial, ethnic, gender, and sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, and Native Americans. Also listed as HIST 107. Not open to students with credit in HIST 107.
HISTORY 107 – HISTORY OF RACE & ETHNICITY IN THE UNITED STATES An introduction to the historical and socio-cultural experiences of racial and ethnic groups and their roles in shaping society and culture in the United States, from pre-contact to the present. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, liberation movements, and the intersection of racial, ethnic, gender, sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, Native Americans, and Middle Eastern Americans. <i>Also listed as ETHN 107. Not open to students with credit in ETHN 107.</i>	An introduction to the social, cultural, and historical experiences of racial and ethnic groups and their roles in shaping the United States. Focus will be on migration, colonization, racialization, discrimination, assimilation, social stratification, resistance and agency, liberation movements, and the intersection of racial, ethnic, gender, and sexual identities as they relate to African Americans, Asian Americans, Latinas/os/x, and Native Americans. Also listed as ETHN 107. Not open to students with credit in ETHN 107.
MATHEMATICS 170 – ANALYTIC TRIGONOMETRY Prerequisite: “C” grade or higher or “Pass” in MATH 110 or equivalent	Prerequisite: “C” grade or higher or “Pass” in MATH 110 or appropriate placement
MATHEMATICS 175 – COLLEGE ALGEBRA Prerequisite: “C” grade or higher or “Pass” in MATH 110 or equivalent	Prerequisite: “C” grade or higher or “Pass” in MATH 110 or appropriate placement
MATHEMATICS 176 – PRECALCULUS: FUNCTIONS AND GRAPHS Prerequisite: “C” grade or higher or “Pass” in MATH 110 or equivalent	Prerequisite: “C” grade or higher or “Pass” in MATH 110 or appropriate placement
MATHEMATICS 178 – CALCULUS FOR BUSINESS, SOCIAL AND BEHAVIORAL SCIENCES Prerequisite: “C” grade or higher or “Pass” in MATH 110 or equivalent	Prerequisite: “C” grade or higher or “Pass” in MATH 110 or appropriate placement
SOCIOLOGY 130 – CONTEMPORARY SOCIAL PROBLEMS	<i>Review and update of course outline</i>

DELETION

Course, Program, Certificate	Reason For Deletion per Department Faculty and/or Advisory Committee Recommendations
Business Administration for Transfer 1.0	Recommendation of the department faculty. The state Chancellor's office released a new TMC 2.0 to replace the 1.0. Cuyamaca has been approved for the 2.0 since last year.

DISTANCE EDUCATION (Approval for Fully Online)

Course	Title
ANTH 120	Cultural Anthropology
ANTH 130	Introduction to Biological Anthropology
CWS 106	Electrical & Instrumentation Processes
CWS 112	Water Treatment Plant Operations
CWS 212	Advanced Water Treatment Plant Operations
MATH 170	Analytic Trigonometry
SOC 130	Contemporary Social Problems

CERTIFICATE ADDITION

LABORATORY SAFETY TECHNICIAN

With thousands of research institutes and industrial biotechnology companies doing business in San Diego, there is now a demand for specifically trained Laboratory Safety Technicians to enter the job market. The EHSM department and industry partners have created robust coursework to meet the needs of laboratory-specific regulations, including hazardous materials and waste management, HAZWOPER certification, and biological, chemical, and radiological regulatory compliance specific to a laboratory setting. Graduates will obtain positions in the laboratory setting as safety technicians, hazardous-waste technicians, environmental technicians, and occupational safety and health technicians.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

- Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management in a laboratory setting.
- Perform laboratory hazard recognition, evaluation and control of chemical, biological and physical hazards.
- Properly manage EHS programs in a laboratory setting by providing employee training, program audits, and conducting site inspections.

Certificate Requirements:

<i>Course</i>	<i>Title</i>	<i>Units</i>
EHSM 130	Environmental/Occupational Health Effects of Hazardous Materials	3
EHSM 140	Laboratory Safety Management	4
EHSM 150	Hazardous Waste Management Applications	4
EHSM 200	Hazardous Materials Management (HMM) Applications	4
EHSM 230	Safety and Emergency Response	<u>3</u>
		18
Select one of the following:		
EHSM 240	Cooperative Work Experience	1-4
EHSM 250	EHS Field Applications	<u>3</u>
		1-4
	Total Required	19-22

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Laboratory Safety Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

DEGREE AND CERTIFICATE MODIFICATIONS

ENVIRONMENTAL HEALTH AND SAFETY MANAGEMENT

Nearly every industry worldwide needs environmental health and safety management. In compliance with federal, state, and local legislation, EHS professionals will support businesses lessening their impact on the environment and reducing risks and hazards in their workplaces. Hazard management includes air, soil, and water pollution, hazardous chemicals and wastes, solid waste, ergonomics, workplace safety, chemical, physical, and biological exposures, noise and lighting hazards, recycling, and sustainability management. EHS also provides emergency response to chemical, biological and nuclear spills and provides compliance with emergency response planning.

The Environmental Health and Safety Management department offers degrees and certificates to provide entry-level skills or upgrade and refine existing skills to perform EHS functions in manufacturing, healthcare, laboratory research, construction, and maritime industries. The programs are specifically designed to prepare students to interpret, analyze and implement various regulations, interpret injury and illness data, and minimize chemical, biological, and physical hazards for employees and the environment. This program emphasizes multicultural applications for training, digital literacy, professional written communications, leadership, and teamwork.

This degree and certificate program provides entry-level skills as well as upgrading and/or refining of existing skills of individuals employed in the field of Environmental Health and Safety Management. The curriculum prepares students for transfer to four-year institutions in an environmental technology or related major. Courses are designed for students pursuing careers in Environmental Management and Occupational Safety and Health with an emphasis on training, regulatory compliance and program development, consulting, pollution prevention, recycling, remediation, conservation, and program management.

Career Opportunities

Environmental Health and Safety Technician/Specialist

Toxic Waste Specialist

Hazardous Waste Technician

HAZWOPER Emergency Response

Industrial Hygiene Technician

Environmental Compliance

Environmental Protection Specialist

Environmental Research

Stormwater/Wastewater Sampling

Sustainability Technician/Specialist

Air Quality Specialist

Phase 1 Investigator

Phase 2 Sampling Technician

EHS Consultant

COVID-19 Program Management

Environmental Remediation

Risk Management

Air Quality Engineer

Asbestos Materials Building Remover

Associate Toxic Waste Specialist

Chemical Handler *

Environmental Engineer

Environmental Hazardous Material Technician

Environmental Health and Safety Specialist

* Environmental Journalist

* Environmental Lawyer

Environmental Manager

* Environmental Protection Specialist

Environmental Research – Test Technician

Game or Fishery Technician

* Geologist Health and Safety Technician

Industrial Hygiene Technician

Land Use and Planning Technician

Mold Remediation Technician

Occupational Health and Safety Technician

Pollution Control Technician

Recycling Coordinator
 Risk Management Officer
 Risk Management Technician
 Safety Officer
 Safety Specialist
 *Soils Analyst
 Solar Energy Installer
 Wastewater Treatment Operator
 Water Treatment Operator
 *Bachelor Degree or higher required

I. ENVIRONMENTAL MANAGEMENT

California leads the United States in environmental protection and sustainability efforts, creating a demand for environmental technicians and specialists in every region and most industries. Whether serving entry-level students or refining the skills of existing EHS professionals, students in the EHSM department will receive innovative hands-on training, in-depth regulatory comprehension, and work experience in air, water, hazardous waste, solid waste, and pollution prevention topics. The program prepares students in a broad understanding of environmental topics currently affecting the local, state, federal, and global populations while including culturally sensitive management techniques. Graduates earning an associate degree in Environmental Management may work as a technician or specialist serving hazardous waste, solid waste, environmental health and safety, environmental sciences, sustainability, water pollution, and air pollution industries.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management.
- Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.
- Identify and Interpret Federal, state and local regulations related to air pollution.
- Define and describe the components of the Hazard Communication Standards required “Hazardous Communication Plan.”
- Identify and describe components of Storm Water Pollution Prevention Plans in accordance with the Clean Water Act.
- Describe and define Regional Water Quality Control Board role in Clean Water Act over site and enforcement of National Pollution Discharge Elimination System (NPDES) permitting and inspections.
- Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.
- Describe and apply terms common to the hazardous materials industry.
- Describe agencies that regulate specific hazardous materials.
- Perform work-related functions according to current industry standards.
- Assess and resolve work-related problems using current industry-specific tools and resources.
- Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
- Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements:

Course	Title	Units
BIO 112	Contemporary Issues in Environmental Resources	3
BIO 130	General Biology I	3
BIO 131	General Biology I Laboratory	1
CHEM 115	Fundamentals of Chemistry	4
EHSM 100	Introduction to Environmental and Occupational Safety and Health (OSH) Technology	4
EHSM 110	Pollution Prevention	3
EHSM 150	Hazardous Waste Management Applications	4
EHSM 200	Hazardous Materials Management (HMM) Applications	4
EHSM 210	Industrial Wastewater and Stormwater Management	4
EHSM 215	Air Quality Management	3
EHSM 230	Hazwoper Certification	3
EHSM 240	Cooperative Work Experience	1-4
		37-4025

List A: select one of the following:

EHSM 240	Cooperative Work Experience	1-4
EHSM 250	EHS Field Applications	3
		1-4

List B: select either

BIO 130	General Biology I	3
and		
BIO 131	General Biology I Laboratory	1
or		
BIO 240	Principles of Ecology, Evolution and Organismal Biology	5
		4-5

(Environmental Management continued)

List C: select one of the following:

CHEM 120	Preparation for General Chemistry	4
CHEM 141	General Chemistry	5
		<u>4-5</u>

List D: select one of the following:

CIS 110	Principles of Information Systems	4
COMM 122	Public Speaking	3
COMM 124	Intercultural Communication	3
SPAN 120	Spanish I	5
		<u>3-5</u>
Total Required		40-45
Plus General Education Requirements		37-44

II. ENVIRONMENTAL TECHNICIAN

California leads the United States in environmental protection and sustainability efforts, creating a demand for environmental technicians and specialists in every region and most industries. Students in the EHSM department will receive innovative hands-on training, in-depth regulatory comprehension, and work experience in air, water, hazardous waste, solid waste, and pollution prevention topics. The program provides a broad understanding of environmental topics affecting local, state, federal, and global populations while including culturally sensitive management techniques. Graduates earning a Certificate of Achievement may work as an environmental technician serving hazardous waste, solid waste, environmental health and safety, environmental sciences, sustainability, water pollution, and air pollution industries.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

- ~~• Identify and interpret Federal, State and local regulations related to Environmental Health and Safety Management.~~
- ~~• Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.~~
- ~~• Identify and Interpret Federal, state and local regulations related to air pollution.~~
- ~~• Define and describe the components of the Hazard Communication Standards required “Hazardous Communication Plan.”~~
- ~~• Identify and describe components of Storm Water Pollution Prevention Plans in accordance with the Clean Water Act.~~
- ~~• Describe and define Regional Water Quality Control Board role in Clean Water Act over site and enforcement of National Pollution Discharge Elimination System (NPDES) permitting and inspections.~~
- ~~• Understand and analyze historical environmental laws and regulations which impact hazardous material management and their effect on the environment.~~
- ~~• Describe and apply terms common to the hazardous materials industry.~~
- ~~• Describe agencies that regulate specific hazardous materials.~~
- Perform work-related functions according to current industry standards.
- Assess and resolve work-related problems using current industry-specific tools and resources.
- Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
- Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Certificate Requirements:

Course	Title	Units
EHSM 100	Introduction to Environmental and Occupational Safety and Health (OSH) Technology	4
EHSM 110	Pollution Prevention	3
EHSM 150	Hazardous Waste Management Applications	4
EHSM 200	Hazardous Materials Management (HMM) Applications	4
EHSM 210	Industrial Wastewater and Stormwater Management	4
EHSM 215	Air Quality Management	3
EHSM 230	Safety and Emergency Response	3
EHSM 240	Cooperative Work Experience	<u>1-3</u>
		<u>27-29</u>

Select one of the following:

EHSM 240	Cooperative Work Experience	1-4
EHSM 250	EHS Field Applications	3
		<u>1-4</u>
Total Required		<u>26-29</u>

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Environmental Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

IV.OCCUPATIONAL SAFETY AND HEALTH (OSH) MANAGEMENT

Since the beginning of the industrial revolution, there has been a steady increase in workplace injuries, illnesses, and death. California has the second-highest demand for Occupational Safety and Health technicians in the United States. OSH Technicians inspect workplaces, evaluate hazards, train employees, implement personal protective equipment programs, and help employers comply with safety regulations from local, state, and federal regulatory agencies. The EHSM program has developed a broad range of classes to ensure students have experience and in-depth understanding of safety inspections, air, noise, ventilation, radiological and biological testing, ergonomic services, and providing workplace illness and injury programs. We offer specialty courses in construction and laboratory safety. Students completing the associate degree in OSH management will obtain jobs as an Occupational Safety and Health Technician or Specialist, Environmental Safety and Health Technician or Specialist, Safety Technician or Specialist, Industrial Hygiene Technician or Specialist, and Risk Manager.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- ~~Identify and evaluate hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.~~
- ~~Describe and apply terms common to the hazardous materials industry.~~
- ~~Apply California and Federal safety standards to assess worksites and recognize hazardous conditions and/or noncompliance.~~
- ~~Assess and evaluate job processes to identify and implement appropriate risk management strategies.~~
- ~~Describe agencies that regulate specific hazardous materials.~~
- ~~Interpret Federal, State and Local regulations governing Construction Safety.~~
- ~~Define and apply "safe work practices", "worker Right to Know" and Community Right to Know" requirements.~~
- ~~Identify and evaluate hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.~~
- ~~Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.~~
- Perform work-related functions according to current industry standards.
- Assess and resolve work-related problems using current industry-specific tools and resources.
- Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
- Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Associate in Science Degree Requirements:

Course	Title	Units
BIO 130	General Biology I	3
BIO 131	General Biology I Laboratory	1
CHEM 115	Fundamentals of Chemistry	4
EHSM 100	Introduction to Environmental and Occupational Safety and Health (OSH) Technology	4
EHSM 130	Environmental/Occupational Health Effects of Hazardous Materials	3
EHSM 135	General Industry Safety Standards	3
EHSM 145	Construction Safety Standards	3
EHSM 200	Hazardous Materials Management (HMM) Applications	4
EHSM 201	Introduction to Industrial Hygiene and Occupational Health	4
EHSM 205	Safety and Risk Management Administration	4
EHSM 230	Hazwoper Certification	3
EHSM 240	Cooperative Work Experience	1-4
		<u>37-4025</u>

List A: select one of the following:

EHSM 140	Laboratory Safety Management	4
EHSM 145	Construction Safety Standards	3
		<u>3-4</u>

List B: select one of the following:

EHSM 240	Cooperative Work Experience	1-4
EHSM 250	EHS Field Applications	3
		<u>1-4</u>

List C: select either:

BIO 130	General Biology I	3
<u>and</u>		
BIO 131	General Biology I Laboratory	1
<u>or</u>		
BIO 240	Principles of Ecology, Evolution and Organismal Biology	5
		<u>4-5</u>

List D: select one of the following:

CHEM 120	Preparation for General Chemistry	4
CHEM 141	General Chemistry I	5
		<u>4-5</u>

List E: select one of the following:

CIS 110	Principles of Information Systems	4
COMM 122	Public Speaking	3
COMM 124	Intercultural Communication	3
SPAN 120	Spanish I	5
		<u>5</u>

Total Required
Plus General Education Requirements

~~40-45~~48

V.OCCUPATIONAL SAFETY AND HEALTH (OSH) TECHNICIAN

Since the beginning of the industrial revolution, there has been a steady increase in workplace injuries, illnesses, and death. California has the second-highest demand for Occupational Safety and Health technicians in the United States. OSH Technicians inspect workplaces, evaluate hazards, train employees, implement personal protective equipment programs, and help employers comply with safety regulations from local, state, and federal regulatory agencies. The EHSM program has developed a broad range of classes to ensure students have experience and in-depth understanding of safety inspections, air, noise, ventilation, radiological and biological testing, ergonomic services, and providing workplace illness and injury programs. We offer specialty courses in construction and laboratory safety. Students completing the Certificate of Achievement in OSH management will obtain jobs as an Occupational Safety and Health Technician, Environmental Safety and Health Technician, Safety Technician, Industrial Hygiene Technician, and Risk Manager.

Program Learning Outcomes

Upon successful completion of this certificate, students will be able to:

- ~~• Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.~~
- ~~• Describe and apply terms common to the hazardous materials industry.~~
- ~~• Apply California and Federal safety standards to assess worksites and recognize hazardous conditions and/or noncompliance.~~
- ~~• Assess and evaluate job processes to identify and implement appropriate risk management strategies.~~
- ~~• Describe agencies that regulate specific hazardous materials.~~
- ~~• Interpret Federal, State and Local regulations governing Construction Safety.~~
- ~~• Define and apply "safe work practices", "worker Right to Know" and Community Right to Know" requirements.~~
- ~~• Identify and evaluated hazardous material routes of entry, toxic effect, risk evaluation and control measures to reduce their exposure and effects.~~
- ~~• Identify key mandatory components of an Injury Illness Prevention Plan (IIPP) in compliance with SB198.~~
- Perform work-related functions according to current industry standards.
- Assess and resolve work-related problems using current industry-specific tools and resources.
- Communicate effectively to prospective clients, managers and coworkers in a workplace setting.
- Abide by industry regulations regarding occupational health and safety, and/or environmental standards.

Certificate Requirements:

Course	Title	Units
EHSM 100	Introduction to Environmental and Occupational Safety and Health (OSH) Technology	4
EHSM 130	Environmental/Occupational Health Effects of Hazardous Materials	3
EHSM 135	General Industry Safety Standards	3
EHSM 200	Hazardous Materials Management (HMM) Applications	4
EHSM 201	Introduction to Industrial Hygiene and Occupational Health	4
EHSM 205	Safety and Risk Management Administration	4
EHSM 230	Hazwoper Certification	3
EHSM 240	Cooperative Work Experience	1-4
		<u>19-22</u> <u>25</u>

List A: select ~~two~~ one of the following:

EHSM 140	Laboratory Safety Management	4
EHSM 145	Construction Safety Standards	3
EHSM 205	Safety and Risk Management Administration	4
EHSM 230	Hazwoper Certification	3
		<u>6-7</u> <u>4</u>

List B: select one of the following:

EHSM 240	Cooperative Work Experience	1-4
EHSM 250	EHS Field Applications	3
		<u>1-4</u>

Total Required

~~25-29~~33

Certificate of Achievement

Students who complete the requirements above qualify for a Certificate in Occupational Safety and Health (OSH) Technician. An official request must be filed with the Admissions and Records Office prior to the deadline as stated in the Academic Calendar.

GENERAL EDUCATION

PLAN C:

CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION BREADTH ~~2021-2022-2022-2023~~

Attention students: CSU GE Breadth choices for transfer may differ between Cuyamaca and Grossmont. If you plan to attend both colleges, it is strongly recommended that you visit the Counseling Centers or visit the individual college websites at www.gcccd.edu for specific information.

Up-to-date at time of catalog printing. Please see a counselor for any additional changes.

There is no catalog year or rule of continuing attendance for General Education Breadth Requirements certification. A course is certifiable if, and only if, it was on the General Education Breadth Requirements list at the time the course was taken. Please check with a counselor if you have any questions.

The California State University system has established a requirement of 48 semester units in general education as part of a baccalaureate degree. At least nine of the 48 semester units must be upper division courses. A student attending a community college may complete 39 of the 48 semester units prior to transfer.

The 48 semester units are distributed as follows:

1. A minimum of nine (9) semester units in communication in the English language to include both oral communication and written communication, and in critical thinking to include consideration of common fallacies in reasoning.
2. A minimum of twelve (12) semester units to include inquiry into the physical universe and its life forms with some immediate participation in laboratory activity, and into mathematical concepts and quantitative reasoning and their applications.
3. A minimum of twelve (12) semester units among the arts, literature, philosophy and foreign languages.
4. A minimum of twelve (12) semester units dealing with human social, political and economic institutions and behavior and their historical background.
5. A minimum of three (3) semester units in study designed to equip human beings for lifelong understanding and development of themselves as integrated physiological and psychological entities.

Cuyamaca College students will be “certified” as completing up to 39 lower division semester units of general education at Cuyamaca College for California State University campuses upon completion of the requirements for Areas A through E listed below (courses which are listed in more than one category may be used to certify only one requirement). Courses completed at California Community Colleges and participating institutions will be certified based on approval at the original campus. Courses taken at out-of-state or private colleges and universities may be used in the certification under certain conditions. CSU GE certifications are processed in the Admissions and Records Office.

NOTE: General Education course choices for transfer and the Associate degree may differ between Cuyamaca College and Grossmont College. Each college strongly recommends that students visit the Counseling Centers for specific information if they plan to attend both campuses.

Courses required in Oral Communication (A1), Written Communication (A2), Critical Thinking (A3) and Mathematics/Quantitative Reasoning (B4) must be completed with grades of “C” or better for admission to most CSU campuses.

AREA A – ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING

(Minimum of 9 semester units)

Minimum of 3 courses, at least one from each category.

1. Oral Communication:

COMM 120, 122, 130

2. Written Communication:

ENGL 120, ESL 122

3. Critical Thinking:

COMM 137, 145

ENGL 122, 124

PHIL 125, 130

AREA B – SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING

(Minimum of 9 semester units)

Minimum of 3 semester units in B1, B2 and B4. One lab course must be included (laboratory courses are underlined).

Lab must correspond to its related lecture course.

(General Education, Plan C continued)

1. Physical Sciences:

ASTR 110, 112
CHEM 102, 105, 113, 115, 116, 120, 141,
142, 231, 232
ET 110
GEOG 120[†], 121[†]
GEOL 104[†], 105, 110, 111
OCEA 112, 113
PHYC 110, 130, 131, 190, 200, 201, 202,
203, 210

2. Life Sciences:

ANTH 130
BIO 112, 122, 130, 131, 133, 134, 135, 140,
141, 141L, 152, 230, 240
OCEA 112, 113

3. Laboratory Activity: This requirement is met by completing a lab course in B1 or B2. Lab courses are underlined. Lab must correspond to its related lecture course.

[†]GEOG 121 corresponds to either GEOG 120 or GEOL 104.

4. Mathematics/Quantitative Reasoning:

BIO 215
CS 240
MATH 120, 125, 126, 160, 170, 175, 176,
178, 180, 245, 280, 281, 284, 285
PSY 215

AREA C – ARTS AND HUMANITIES

(Minimum of 9 semester units)

At least 1 course in each category.

1. Arts:

ART 100, 120, 140, 141, 143, 144, 145, 146,
148, 149
HUM 110, 120, 140
MUS 110, 111, 115, 116, 117, 123
THTR 110

2. Humanities:

ARAM 120, 121, 220
ARBC 120, 121, 122, 123, 145, 220, 221,
250, 251, 254
ASL 120, 121, 140, 220, 221
ENGL 122, 201, 202, 214, 217, 221, 222,
231, 232, 236, 238, 270, 271
ETHN 111, 236, 238
HIST 100, 101, 105, 106, 114, 115, 148
HUM 110, 111, 115, 116, 120, 140, 155
NAKY 120, 121, 220
PHIL 110, 115, 117, 140, 160, 170
RELG 120, 130, 160, 170
SPAN 120, 121, 141, 145, 220, 221, 250,
251

AREA D – SOCIAL SCIENCES

(Minimum of 6 semester units)

Courses ~~must~~ can be taken in the same discipline from ~~at least 2~~ disciplinary perspectives.

ANTH 120, 140, 150, 160
CD 115, 125, 131, 145
COMM 110, 124
ECON 110, 120, 121
ETHN 107*, 114, 118*, 119*, 130*, 131*, 132, 133, 150, 165, 180*, 181*
GEOG 106, 130
HED 203, 204, 251
HIST 100, 101, 105, 106, 107*, 108*, 109*, 114*, 115*, 118*, 119*, 122*, 123*, 124*, 130*, 131*,
132, 133, 180*, 181*, 275, 276, 277
POSC 120, 121*, 124, 130, 140*, 165, 170
PSY 120, 125, 134, 138, 140, 150, 170, 211,
220

(General Education, Plan C continued)

SOC 114, 120, 125, 130, 138, 140, 150
SPAN 145

AREA E – LIFELONG LEARNING AND SELF-DEVELOPMENT

3 semester units, not all from physical activity, from:

BIO 115
CD 125, 145
CIS 110
COUN 120, 140
ES 019ABC
HED 120, 201, 203, 251
NUTR 155, 158, 255
PSY 134, 140, 150, 220
SCI 100
SOC 125

OR

DD 214 and/or military transcripts.

AREA F – ETHNIC STUDIES

One course (Minimum of 3 semester units) is required.

ENGL 236, 238
ETHN 114, 236, 238
SOC 114

US HISTORY, CONSTITUTION AND AMERICAN IDEALS REQUIREMENT:

The California State University requires students to complete courses or examinations that address:

US-1: The historical development of American institutions and ideals; and

US-2: The Constitution of the United States and the operation of representative democratic government under that Constitution;
and

US-3: The process of California state and local government.

This requirement may be fulfilled prior to transfer by completing a course or courses that satisfy all three areas (US-1, US-2, and US-3). Please review www.assist.org to see which courses at Cuyamaca College fulfill US-1, US-2 and US-3.* Courses used to satisfy this requirement may also be applied to IGETC Area 4 and/or CSU GE-Breadth Area D.

Please note: Courses may differ between Cuyamaca and Grossmont Colleges.

Courses with an * meet CSU American Institutions requirement.