



2015 - 2016
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2015-2016 CATALOG ADDENDUM

CERRO COSO COMMUNITY COLLEGE

3000 College Heights Blvd.
Ridgecrest, CA 93555

www.cerrocoso.edu

760-384-6100

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Disclaimer

Cerro Coso Community College reserves the right to modify its programs,
tuitions and fees, admission and graduation requirements, schedules, and other policies,
procedures and regulations stated in this catalog without notice.

*Cerro Coso Community College is a member
of the Kern Community College District*

Cerro Coso Community College Publication Staff :

Dr. Corey Marvin, Editor

Deborah Gregory, Graphic Design and Layout

Sylvia Sotomayor, Assistant Editor

PROGRAMS OF STUDY**I****COURSE DESCRIPTIONS****4**

Accreditation

*Cerro Coso Community College
is accredited by the
Western Association of Schools and Colleges
and is fully approved by the
Board of Governors,
California Community Colleges
and other state and federal agencies.
The University of California,
California State Universities
and other Universities
and colleges grant credit to lower division
transfer courses completed at
Cerro Coso Community College.*

PROGRAMS OF STUDY

CHANGED PROGRAMS

Business Administration Associate in Science Degree for Transfer (AS-T)

The Associate in Science in Business Administration for Transfer degree (60 units total, 24-26 units in the major) prepares students for transfer at the junior level to California State University programs and colleges offering Bachelor’s degrees in Business, Business Administration, Management Information Systems, or other related degrees. Upon completion of this degree the student will be able to demonstrate a general understanding of business, business operations, business organization, and business procedures and apply critical thinking skills to technical and economic issues in a global business environment.

To complete the degree, students must fulfill both of the following requirements

1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - b. A minimum of 18 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.
2. Obtainment of a minimum grade point average of 2.0.
3. Completion in all courses for the major or area of emphasis must be a “C” or better. A “P” (Pass) grade is not an acceptable grade for courses in the major.

Please note that our local Cerro Coso general education pattern MAY NOT be used to fulfill the requirements of this degree and that all required courses for the degree must be transferable to CSU.

This program prepares students for careers in Business Administration.

This program is designed to prepare students for transfer to a baccalaureate degree granting institution where students can major in Business Administration, Computer Information Systems, Management Information Systems, Marketing,

Management, and other related majors. Students that graduate with a Bachelor’s degree in Business Administration or a related area are prepared to work in any business environment.

Program Learning Outcomes

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

- Explain the nature of business, business operations, business organization, and business procedures.
- Apply critical thinking skills (analysis, synthesis, and evaluation) to technical and economic issues in a business environment.
- Recognize and demonstrate skills necessary to function effectively in the global economy.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Required Core:

BSAD C101	Financial Accounting.....	4 Units
BSAD C102	Managerial Accounting.....	4
ECON C102	Macroeconomics	3
ECON C103	Microeconomics	3
BSAD C131	Busienss Law.....	3

List A - Select one of the following courses:

MATH C121	Elementary Probability and Statistics.....	4 Units
or MATH C121H	Elementary Probability and Statistics – Honors	5
MATH C131	Basic Functions and Calculus for Business	4

List B - Complete both of the following courses or any course not already used from List A and one of the following courses:

CSCI C101	Introduction to Computer Information Systems.....	3 Units
BSAD C100	Introduction to Business.....	3

Complete one of the following general education patterns:

OPTION B	CSU General Education Breadth
OPTION C	IGETC - Intersegmental General Education Transfer Curriculum

NEW PROGRAMS

Anthropology Associate in Arts Degree for Transfer (AA-T)

An Associate in Arts Degree in Anthropology for Transfer prepares students for transfer to the CSU system to earn a baccalaureate in Anthropology and its subfields, Archaeology, Biological Anthropology, Cultural Anthropology, and Linguistic Anthropology. Anthropology teaches students to think critically about humans worldwide, their biology, and their culture. Upon successful completion of the program students will be able to apply anthropological principles to the understanding of human cultural and biological variation, compare and contrast major theoretical perspectives in anthropology, and evaluate cross-cultural data using the scientific method. These skills can be applied to careers in anthropology, forensics, law, business, cultural resource management, and human services. To complete the degree, students must fulfill both of the following requirements:

- Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - A minimum of 19 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.
- Obtainment of a minimum grade point average of 2.0.
- Completion in all courses for the major or area of emphasis must be a "C" or better. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Please note that our local Cerro Coso general education pattern may not be used to fulfill the requirements of this degree and that all required courses for the degree must be transferable to CSU.

The program prepares students for careers in anthropology as well as careers in forensics, international affairs, social services, cultural resource management, business, and education.

Program Learning Outcomes

Upon successful completion of the program the student will be able to:

- Critique selected aspects of human social and cultural life from an anthropological perspective.
- Compare and contrast major theoretical perspectives in anthropology.
- Use the scientific method to analyze aspects of the human condition.
- Analyze the place of humanity in nature and describe the methods used to study humans as biological organisms.
- Identify major trends in cultural evolution using the material cultures of prehistoric and historic humans.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge process.

Required Core:

ANTH C111	Cultural Anthropology	3 Units
ANTH C121	Physical Anthropology	3
or ANTH C121H	Physical Anthropology: Honors	4
ANTH C131	Archaeology	3

List A – Select one of the following courses:

MATH C121	Elementary Probability and Statistics	4 Units
or MATH C121H	Elementary Probability and Statistics: Honors	5

List B – Select one of the following courses:

BIOL C251	Human Anatomy	4 Units
GEOL C111	Physical Geology	4
PSYC C271	Research Methods in the Social and Behavioral Sciences	3

List C – Select one of the following courses:

ANTH C141	Native Peoples of North America	3 Units
HIST C209	History of Mexico	3
PHIL C164	Survey of World Religions	3

Complete one of the following general education patterns:

OPTION B	CSU General Education Breadth
OPTION C	IGETC - Intersegmental General Education Transfer Curriculum

Art History Associate in Arts Degree for Transfer (AA-T)

An Associate in Arts Degree in Art History for Transfer prepares students for transfer to complete work for a baccalaureate degree in Art History, Studio Arts, Fine Arts, Art History, Art Education or Art Therapy.

This degree is designed for students interested in an introduction to the converging notions of contemporary and historical art production, analysis of ancient and modern artifacts, the exploration of local and global cultural contexts in which artifacts were created, and the methodologies of art history. Students will gain critical thinking skills and a foundational knowledge that will prepare them for transfer to four year institutions. While on-line and on-ground courses may be combined to obtain this degree, it can be obtained solely through our on-line offerings.

To complete the degree, students must fulfill both of the following requirements:

- Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education-Breadth Requirements.
 - A minimum of 19 semester units in a major or area of emphasis, as determined by the Kern Community College District Board of Trustees.
- Obtainment of a minimum grade point average of 2.0.
- Completion in all courses for the major or area of emphasis must be a "C" or better. A "P" (Pass) grade is not an acceptable grade for courses in the major.

Please note that our local Cerro Coso general education pattern may not be used to fulfill the requirements of this degree and that all required courses for the degree must be transferable to CSU.

The program is appropriate for students going on to obtain a baccalaureate in Art History, professional art school, studies in fine arts, design, art history, art therapy, education, art education or gallery studies.

Program Learning Outcomes

Upon successful completion of the program the student will be able to:

- Analyze and interpret the formal, technical, and expressive aspects of a work of art, whether as a

historian, viewer, or creator.

- Discuss works of art representative of diverse cultures and regions within a historical and social context.
- Apply art historical terminology and methodology in analyzing and interpreting works of art.
- Demonstrate familiarity with a variety of art production processes.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge process.

Required Core (9 units):

ART C105	Survey of Western Art from Prehistory through the Middle Ages	3 Units
ART C106	Survey of Western Art from Renaissance to Contemporary	3
or ART C106H	Survey of Western Art from Renaissance to Contemporary: Honors	4
ART C121	Drawing I	3

List A: Choose one of the following:

ART C107	Survey of Asian Art	3 Units
ART C108	Modern Art	3

List B: Choose one of the following:

ART C111	Two-Dimensional Design	3 Units
ART C115	Three-Dimensional Design	3
ART C141	Introduction to Ceramics	3
ART C151	Sculpture I	3

List C: Any course listed above not previously used, or choose one of the following:

ART C101	Introduction to Art	3 Units
ART C131	Painting I	3

Complete one of the following general education patterns:

OPTION B	CSU General Education Breadth
OPTION C	IGETC - Intersegmental General Education Transfer Curriculum

COURSE DESCRIPTIONS

Cerro Coso Community College offers a comprehensive program of instruction for students who wish to transfer to four-year institutions, complete an Associate degree, train for specific occupations, or develop basic skills and knowledge.

The following section includes a description of courses which the Board of Trustees has authorized the college to offer.

COURSE CODE INDEX

Course Numbers

Courses are divided into the following major categories:

- 001-019 Non-credit or Adult Education courses.
- 020-049 Courses which prepare students to enroll in degree-level courses and/or provide enrichment opportunities. These courses do not carry degree credit.
- 050-099 Associate-degree and certificate level. Baccalaureate transferability is subject to review by individual transfer institutions.
- 100-199 Associate-degree and certificate level courses that are generally baccalaureate transferable as freshman level. (Course-by-course designations of transferability are noted in course descriptions according to the key listed below.)
- 200-299 Associate-degree and certificate courses that are generally baccalaureate transferable as sophomore level.

Course Level and Transfer Codes

The level and transfer applicability of each course is designated by the following letter symbols:

- A Applicable to all Associate degree and certificate programs.
- UC Baccalaureate transferable to the University of California
- N New course submitted to the University of California system for transfer acceptance; verified with the Counseling Center.
- CSU Baccalaureate transferable to the California State University system.
- P Preparatory courses which do not carry degree-level credit.
- X Non-credit courses.

CHANGED COURSES

ADMJ C230 A/CSU 3.00 Units
Forensic Crime Scene Investigation

Advisory: ENGL C070
 Repeat Status: Not repeatable

This course enables students to attain a comprehensive understanding of the processes used to respond to, secure, document, and collect evidence at a crime scene. The legal, ethical, and practical issues involving crime scene investigations are covered in greater detail. The coursework includes identifying and working a crime scene in the field. 54 hours lecture.

ART C105 A/UC/CSU 3.00 Units
Survey of Western Art from Prehistory through the Middle Ages

Advisory: ENGL C070
 Repeat Status: Not repeatable

This course provides an overview of western art and architecture from prehistory through the Middle Ages. 54 hours lecture.

ART C106 A/UC/CSU 3.00 Units
Survey of Western Art from Renaissance to Contemporary

Advisory: ENGL C070
 Repeat Status: Not repeatable

This course provides an overview of art and architecture from the Renaissance to the Contemporary period. (ART C105 is not a prerequisite for ART C106.) 54 hours lecture.

BSOT C121 A/CSU 1.00 Unit
Beginning Word

Advisory: CSCI C070, ENGL C040
 Repeat Status: Not repeatable

This hands-on computer course is designed to provide basic understanding of word processing concepts using Microsoft Word. Learners create, edit, and format documents including business letters, multiple-page reports, newsletters, and cover letters. Mail merge and desktop publishing are also introduced. This course begins preparation for the Microsoft Office Specialist certification exam for Microsoft Word. 9 hours lecture/27 hours laboratory.

BSOT C154 A/CSU 3.00 Unit
Office Personnel Seminar

Prerequisite: BSOT C070, C100, C132
 Advisory: BSOT C127, C153, C161
 Repeat Status: Not repeatable

This course is designed to integrate and refine office skills.

Students gain skills in communication, information processing, time management, ethics, records management, administrative procedures, customer service, and job searches. The course covers all aspects of the modern workplace, including team work, problem-solving, and decision-making skills. 54 hours lecture.

CSCI C251 A/UC/CSU 3.00 Units
Introduction to Visual Basic Programming

Advisory: CSCI C101
 Repeat Status: Not repeatable

This course is an introduction to the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs. Students receive hands-on experience with a modern application programming language and development platform. 36 hours lecture/54 hours laboratory.

ENGL C040 P 4.00 Units
Improving College Writing Skills

Prerequisite: ENGL C030
 Repeat Status: Not repeatable

This course, which is preparation for introductory composition, is designed to teach students to write short compositions (500-750 words each) with clear organization, development, keywords, thesis, topic sentences, and sufficient supporting details. Students become familiar with a variety of rhetorical modes and are introduced to expository and text-based writing. Major and minor principles of grammar are reviewed. 72 hours lecture.

ENGL C070 A 4.00 Units
Introductory Composition

Prerequisite: ENGL C040 or ENGL C042
 Advisory: IC C075
 Repeat Status: Not repeatable

In this course which prepares students to take university-level classes, students analyze and respond to college-level readings, compose expository and argumentative essays for a variety of rhetorical situations, incorporate outside sources into their writing using proper

documentation techniques, and revise for coherence, unity, and development. Students write four to five text-based expository essays (total: 3,500 words). 72 hours lecture.

PSYC C211 A/UC/CSU 3.00 Units
Lifespan Development

Prerequisite: ENGL C070, PSYC C101
Advisory: ENGL C070
Repeat Status: Not repeatable

This course provides an overview, from a psychological perspective, of human development from conception through death, including biological and environmental influences. Theories and research of physical, cognitive, personality, and social development are examined, as well as attention to developmental problems. 54 hours lecture.

PSYC C220 A/UC/CSU 3.00 Units
Physiological Psychology

Prerequisite: PSYC C101
Advisory: ENGL C070
Repeat Status: Not repeatable

This course introduces the scientific study of the biological bases of behavior and its fundamental role in the neurosciences. Physiological, hormonal, and neurochemical mechanisms, and brain-behavior relationships underlying the psychological phenomena of sensation, perception, regulatory processes, emotion, learning, memory, and psychological disorders are addressed. The course also notes historical scientific contributions and current research principles for studying brain-behavior relationships and mental processes. Ethical standards for human and animal research are discussed in the context of both invasive and non-invasive experimental research. 54 hours lecture.

SOCI C151 A/UC/CSU 3.00 Units
Perspectives on Race and Ethnicity

Advisory: ENGL C070
Repeat Status: Not repeatable

In this class, students apply critical reasoning skills to the analysis of race, ethnicity, and racism. The class covers the cultural, political, and economic practices and institutions that support or challenge racism, racial and ethnic inequalities, and the patterns of interaction among various racial and ethnic groups. Through multiple and varied readings and classroom discussion, students discover the interrelatedness of concepts such as race, class, and gender, and the roots and future of our "melting pot" society. 54 hours lecture. *WAS SOCI C220.*

DELETED COURSES

ADMJ C111

ADMJ C202

ADMJ C211

HCRS C068

HCRS C101

PDEV C106

PHIL C205

NEW COURSES

ART C107 N 3.00 Units

Survey of Asian Art

Advisory: ENGL C070
Repeat Status: Not repeatable

This course provides a select overview of art and architecture from India, Southeast Asia, China, Korea, and Japan from pre-history to modern times. 54 hours lecture.

ART C108 N 3.00 Units

Modern Art

Advisory: ENGL C070
Repeat Status: Not repeatable

This course provides an overview of art and architecture from the Western modern period of the 19th and 20th centuries. 54 hours lecture.

BSOT C070 N 3.00 Units

Business Mathematics

Advisory: MATH C040
Repeat Status: Not repeatable

This course provides practice with a wide range of mathematical procedures used in various business applications. Students perform calculations both manually and using a calculator to solve problems in accounting, retail, finance, and taxation. Learners are required to access a printing calculator with features including round off/up key, decimal selector for 0 through 6 plus float memory keys and 10-12 digit keyboard. 54 hours lecture.

BSOT C072 N 3.00 Units

Introduction to Accounting

Advisory: MATH C040
Repeat Status: Not repeatable

This course covers basic accounting concepts and procedures that are required to complete an accounting cycle. Account types, (assets, liabilities, equity, revenue, expenses) as well as procedures for bank reconciliations, petty cash, and payroll are introduced. Learners complete business transactions from day-to-day economic activities to closing entries and the preparation of year end documents such as a balance sheet, income statement, and statement of owner's equity. 36 hours lecture/54 hours laboratory.

ENGL C221H N 4.00 Units

World Literature: Antiquity to 17th Century – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: ENGL C070
Repeat Status: Not repeatable

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from antiquity to the mid or late seventeenth century. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

ENGL C222H N 4.00 Units

World Literature: 17th Century to Present – Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: ENGL C070
Repeat Status: Not repeatable

This course is a comparative study of selected works, in translation and in English, of literature from around the world, including Europe, the Middle East, Asia, and other areas, from the mid or late seventeenth century to the present. The honors course provides more content and requires greater intensity and depth of study than the non-honors course; the honors course also requires at least one extra research assignment. 72 hours lecture.

POLS C103 N 3.00 Units

Introduction to Political Theory

Advisory: ENGL C070
Repeat Status: Not repeatable

This course is an examination of various theoretical approaches to politics, as well as basic political problems and their proposed solutions. The course also covers analysis of selected political theories and the relevance of theory to contemporary problems. Students are introduced to long standing debates over the nature of justice, the proper use of power, and the meanings of equality and freedom and their implications for the contemporary state and state policies. 54 hours lecture.



RIDGECREST

3000 College Heights Blvd.
Ridgecrest, CA 93555-9571

PHONE 760-384-6100
FAX 760-384-6270
TDD ONLY 760-384-6110



**KERN RIVER VALLEY/
LAKE ISABELLA**

5520 Lake Isabella Blvd.
Lake Isabella, CA 93240-3204

PHONE 760-379-5501
FAX 760-379-5547



**EAST KERN CENTER/
EDWARDS AIR FORCE BASE,
CALIFORNIA CITY, TEHACHAPI
& MOJAVE**

140 Methusa Ave.
Edwards AFB, CA 93524-1400

PHONE 661-258-8644
FAX 661-258-0651



**EASTERN SIERRA COLLEGE
CENTER/BISHOP**

4090 W. Line Street
Bishop, CA 93514-7306

PHONE 760-872-1565
FAX 760-872-5328



**EASTERN SIERRA COLLEGE
CENTER/MAMMOTH LAKES**

101 College Parkway
Mammoth Lakes, CA 93546-1865

PHONE 760-934-2875
FAX 760-924-1627



CC ONLINE

www.cerrocoso.edu/cconline

PHONE 760-384-6175
TOLL FREE 888-537-6932
FAX 760-384-6186



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Changes to Programs of Study

New Program Added to Catalog

Cyber Security Technician Associate of Science Degree

The goals of this new degree are to fill a documented need in the area of cyber security, information security and information assurance of our service area employers. The degree is designed for students pursuing professional employment in information security for business. This degree program provides students with skills to enter the job market as information security specialists, information security technicians, information assurance technicians, networking security technicians, and cyber security technicians. Designed for both full and part-time students, this program is appropriate to both those currently employed and those seeking to enter this field. The courses are aligned with industry degree and students are prepared to take the A+ exam, Net+ exam, Security+ and Server+ exam.

Cyber Security Technician Associate of Science degree is designed for students pursuing professional employment in information security for business. This degree program provides students with skills to enter the job market as information assurance technicians, information security analysts, network security professionals and cyber security technicians. Designed for both full-time and part-time students, this program is appropriate to both those currently employed and those seeking to enter the field. This degree program is also transferable to California State University at San Bernardino.

Students exiting this program are prepared to enter the fields of information security, network security, information assurance or cyber security.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Configure, install, diagnose, and support hardware and software issues.
- Utilize identifying tools and methodologies that hackers use to break into a network computer and defend a computer and local area network against a variety of different types of security attacks using a number of hands-on techniques.
- Design, analyze, and support computer networks.
- Apply problem-solving, programming, and application

development including the ability to design, test, debug, and implement complex computer programs.

- Operate servers, storage, and virtualization including implementing and evaluating network security solutions.
- Read and interpret technical information, as well as communicate with and write clearly for wide ranges of audiences.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/ verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all the following courses:

CSCI C101	Introduction to Computer Information Systems.....	3 Units
CSCI C142	Information & Communication Technology Essentials	4
CSCI C143	Computer Network Fundamentals	3
CSCI C146	Security+ Fundamentals of Networks.....	3
CSCI C251	Introduction to Programming Concepts and Methodologies	3
CSCI C190	Introduction to Cyber Security: Ethical Hacking	3
CSCI C193	System and Network Administration.....	3
CSCI C195	Introduction to Systems Analysis and Design.....	3

Complete one of the following courses:

MATH C121	Elementary Probability and Statistics	4 Units
or MATH C121H	Elementary Probability and Statistics – Honors.....	5
MATH C130	Finite Mathematics	4
MATH C131	Basic Functions and Calculus for Business	4

Complete one of the following general education patterns:

OPTION A	Cerro Coso Local General Education Pattern
OPTION B	CSU General Education Breadth
OPTION C	IGETC - Intersegmental General Education Transfer Curriculum

Cyber Security Technician Certificate

The goals of this new degree are to fill a documented need in the area of cyber security, information security and information assurance of our service area employers. The degree is designed for students pursuing professional employment in information security for business. This degree program provides students with skills to enter the job market as information security specialists, information security technicians, information assurance technicians, networking security technicians, and cyber security technicians. Designed for both full and part-time students, this program is appropriate to both those currently employed and those seeking to enter this field. The courses are aligned with industry degree and students are prepared to take the A+ exam, Net+ exam, Security+ and Server+ exam.

Cyber Security Technician Certificate of Achievement is designed for students pursuing professional employment in information security for business. This certificate program provides students with skills to enter the job market as information assurance technicians, information security analysts, network security professionals and cyber security technicians. Designed for both full-time and part-time students, this program is appropriate to both those currently employed and those seeking to enter the field.

Students exiting this program are prepared to enter the fields of information security, network security, information assurance or cyber security. Students entering this program develop all the skills necessary to be successful are taught in the first course in the career pathway (CSCI C101). Jobs in information security and cyber security are in high demand and pay from \$86,000 (per Labor Market data attached).

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Configure, install, diagnose, and support hardware and software issues.
- Utilize identifying tools and methodologies that hackers use to break into a network computer and defend a computer and local area network against a

variety of different types of security attacks using a number of hands-on techniques.

- Design, analyze, and support computer networks.
- Apply problem-solving, programming, and application development including the ability to design, test, debug, and implement complex computer programs.
- Operate servers, storage, and virtualization including implementing and evaluating network security solutions.
- Read and interpret technical information, as well as communicate with and write clearly for wide ranges of audiences.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/ verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all the following courses:

CSCI C101	Introduction to Computer Information Systems.....	3 Units
CSCI C142	Information & Communication Technology Essentials	4
CSCI C143	Computer Network Fundamentals	3
CSCI C146	Security+ Fundamentals of Networks.....	3
CSCI C251	Introduction to Programming Concepts and Methodologies	3
CSCI C190	Introduction to Cyber Security: Ethical Hacking	3
CSCI C193	System and Network Administration	3
CSCI C195	Introduction to Systems Analysis and Design.....	3

Complete one of the following courses:

MATH C121	Elementary Probability and Statistics	4 Units
or MATH C121H	Elementary Probability and Statistics – Honors.....	5
MATH C130	Finite Mathematics	4
MATH C131	Basic Functions and Calculus for Business	4

Updated Program

Changes are highlighted in red

Child Development Site Supervisor Certificate of Achievement

The Child Development Site Supervisor Certificate of Achievement (33 units) is designed to provide students with a complete educational foundation to work as an administrator of programs serving children in a group setting and includes required classes in the core areas (development; child, family, and community; curriculum); six administration units; and adult supervision units.

The California Child Development Permit Matrix requirements are reflected in our program allowing students to qualify for the permits required or teaching in programs governed by Title V and funded by contracts with the State of California. Permits are issued by the State Department of Education, California Commission on Teacher Credentialing (not Cerro Coso) and include: Assistant Teacher, Associate Teacher, Teacher and Site Supervisor Permits.

All professionals working with children are required to have a clean criminal record, to demonstrate freedom from tuberculosis (TB), and to demonstrate the physical ability to perform all of the duties of a professional position working directly with children.

Complete each course to be applied toward the certificate with a grade of "C" or better, or with a grade of "P" if the course is taken on a pass/no pass basis.

The requirements for this program are complex. You MUST meet with a Child Development faculty member AND a counselor.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Examine teaching and care practices that provide a developmentally appropriate program to support children's growth, development, and learning.
- Identify one's own values, experiences, and philosophies and how they guide and inform practice.
- Integrate understandings of children's development and needs to maintain healthy, safe, supportive, and challenging learning environments that demonstrate culturally relevant, inclusive, age-appropriate, and anti-bias approaches respectful of children, families, and early learning professionals.
- Design appropriate strategies and program policies in

compliance with California state laws and regulations that guide the administration of respectful and responsive quality care and education programs.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/ verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all the following courses:

CHDV C100	Principles and Practices of Teaching	3 Units
CHDV C102	Introduction to Materials and Curriculum	3
CHDV C104	Child, Family, and Community	3
CHDV C106	Child Growth and Development.....	3
CHDV C121	Health, Safety and Nutrition.....	3
CHDV C125	Diversity in Education	3
CHDV C200	Observation and Assessment.....	3
CHDV C203	Practicum - Field Experience	3
CHDV C251	Administration of Child Development Programs I	3
CHDV C252	Administration of Child Development Programs II	3
CHDV C281	Adult Supervision.....	3

Permit

STATE OF CALIFORNIA CHILD DEVELOPMENT PERMIT: The California Commission on Teacher Credentialing grants permits in accordance with the Child Development Permit Matrix. Applications are separate from Cerro Coso Community College and must be submitted to California Commission on Teacher Credentialing. Contact any Child Development faculty member or visit the California Commission on Teacher Credentialing website at <http://www.ctc.ca.gov/> for more information regarding the Permit Matrix and Professional Growth Advisors. For all permits, all course work must be completed with a grade of "C" or better.

Site Supervisor Permit: Teacher Certificate requirements plus experience of 350 days of 3+ hours per day within 4 years including at least 100 days supervising adults plus 16 general education units in English/Language Arts, Math/Science, Social Sciences, and Humanities/Fine Arts.

Course Descriptions

Courses Deleted from Catalog

BIOL C101H

SPAN C110

New Courses Added to Catalog

ADMJ C140

N
0.50 Units

Law Enforcement Training Academy Orientation

Repeat Status: Not repeatable

This orientation course prepares students for the Law Enforcement Academy. A series of self-assessment activities and exercises help students understand the Academy challenges and requirements. This course is presented in a rigorous and disciplined training environment. Students participate in activities designed to simulate the Cerro Coso Law Enforcement Academy to assess individual emotional, mental and physical readiness for the Academy. 9 hours lecture.

CHDV C141

A/CSU
3.00 Units

Introduction to Children with Special Needs

Advisory: ENGL C070 and LIBR C100
Repeat Status: Not repeatable

This course introduces the variations in development of children with special needs ages birth through eight and the resulting impact on families. The course includes an overview of historical and societal influences, laws relating to children with special needs, and the identification and referral process. Students are required to observe children in a group setting. 54 hours lecture.

CSCI C190

A/CSU
3 Units

Introduction to Cybersecurity: Ethical Hacking

C-ID: ITIS 164 Introduction to Cybersecurity: Ethical Hacking

Advisory: CSCI C101, CSCI C143, CSCI C146

Repeat Status: Non-Repeatable

This course introduces the network security specialist to the various methodologies for attacking a network. Students are introduced to the concepts, principles, and techniques, supplemented by hands-on exercises, for attacking and disabling a network within the context of properly securing a network. The course emphasizes network attack methodologies with the emphasis on student use of network attack techniques and tools and appropriate defenses and countermeasures. Students receive course content information through a variety of methods: lecture and demonstration of hacking tools are used in addition to a virtual environment. Students experience a hands-on practical approach to penetration testing measures and ethical hacking. 45 hours lecture/27 hours laboratory.

CSCI C193

A/CSU
3 Units

System and Network Administration

C-ID ITIS 155 Systems and Network Administration

Advisory: CSCI C101, CSCI C143
Repeat Status: Non-Repeatable

This course provides students with the knowledge and skills required to build, maintain, troubleshoot and support server hardware and software technologies. Topics include environmental issues; disaster recovery and physical / software security procedures; industry terminology and concepts; server roles / specializations; and interaction within the overall computing environment. This course prepares students for the current version of CompTIA's Server+ certification exam. 45 hours lecture/27 hours laboratory.

CSCI C195

A/CSU
3 Units

Introduction to Systems Analysis and Design

C-ID ITIS 140 Introduction to Systems Analysis and Design

Prerequisite: CSCI C101.

Advisory CSCI C143, CSCI C146
Repeat Status: Non-Repeatable

The course presents a systematic methodology for analyzing a business problem or opportunity, determining what role, if any, computer-based technologies can play in addressing the business need, articulating business requirements for the technology solution, specifying alternative approaches to acquiring the technology capabilities needed to address the business requirements, and specifying the requirements for the information systems solution in particular, in-house development, development from third-party providers, or purchased commercial-off-the-shelf packages. 45 hours lecture/27 hours laboratory.

MATH C053

A
4 Units

Preparation for Statistics

Prerequisite: MATH C050

Repeat Status: Non-Repeatable

This is an accelerated transfer-level statistics preparation course for non-STEM majors. Topics include linear, quadratic, rational, exponential, and logarithmic functions and equations; systems of linear equations and inequalities; and data collection, data summaries, and descriptive statistics. The emphasis is on statistical applications of the algebraic material. 72 hours lecture.

PDEV C100

A/CSU
3 Units

Student Success Career Pathway

Advisory: ENGL C070

Repeat Status: Non-Repeatable

This classroom-based, guidance experience teaches students a quantifiable decision-making process

that helps them identify and plan for their education and career goals. Students explore academic interests, skills, values, and personality types, and research employers and industries. Students advance public speaking and interview skills through practice, familiarize themselves with college and job search tools, and learn goal setting. The culmination of this process is the development of an internet based education and career ten-year plan that can be used for advisory and academic coaching purposes and updated as needed. The personalized ten-year plan provides focus and motivation to succeed in college, at work, and in life. 54 hours lecture.

PHED C181 A/CSU
1 Unit

Intercollegiate Softball I

Prerequisite: All students must meet CCCCAA Athletic Code Eligibility Guidelines. Participants must be enrolled in a minimum of 12 units during the season of competition

Repeat Status: Repeatable Three times

This course involves participation in a high level of competition and skill development in softball. There is an emphasis on advanced skill, theory, tactics, and strategy in intercollegiate softball competition. All students must meet California Community College Athletics Association Athletic Code. Enrollment is limited to intercollegiate athletes. 175 intercollegiate hours.

Updated Courses

Changes are highlighted in red

ASL C102 A/UC/CSU
4.00 Units

American Sign Language II

Prerequisite: ASL C101
Repeat Status: Not repeatable

In this follow-up to ASL C101, students continue to develop and enhance their proficiency in American Sign Language (ASL) usage and knowledge of Deaf history and culture. This course encourages students' communicative competency with emphasis on vocabulary and expressive skills through in-class and out-of-class requirements. 72 hours lecture.

ANTH C121H A/UC/CSU
4.00 Units

Physical Anthropology: Honors

C-ID: ANTH 110 Introduction to Biological Anthropology

Limitation on Enrollment: Acceptance for the Honors program or eligibility for this honors course as determined in consultation with the instructor

Pre-requisite: ENGL C070
Repeat Status: Not repeatable

This course examines humans as biological organisms from an evolutionary perspective. Areas covered include concepts, methods, findings, and issues in the study of the order primates, including relationships between fossil monkeys, apes and humans, and the significance of genetic diversity among modern populations. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

ANTH C131 A/UC/CSU
3.00 Units

Archaeology

C-ID: ANTH C150 Introduction to Archaeology

Advisory: ENGL C070
Repeat Status: Not repeatable

This course is an introduction to the study of archaeology. The course includes a discussion of the nature of scientific inquiry; the history and interdisciplinary nature of archaeological research; dating techniques; methods of survey, excavation, analysis, and interpretation; cultural resource management; professional ethics; and selected cultural sequences. 54 hours lecture.

BIOL C101 A/UC/CSU
3.00 Units

Principles of Biology

Advisory: ENGL C070
Repeat Status: Not repeatable

This is a survey course in general biology for non-majors. Topics cover principles of organization, cell structure and function, genetics, metabolism, organ systems, reproduction (plants and animals),

ecology, evolution, diversity, and animal behavior. 54 hours lecture.

BIOL C105 A/UC/CSU
4.00 Units

Concepts of Biology

Advisory: ENGL C070
Repeat Status: Not repeatable

This is an introductory course in biological science with laboratory experience for non-majors. The course illustrates the principles of organization, cell structure and function, genetics, metabolism, organ systems, reproduction (plant and animal), ecology, evolution, and animal behavior. The course is not open to students with credit in BIOL C101. 54 hours lecture/54 hours laboratory.

BIOL C105H A/UC/CSU
5.00 Units

Concepts of Biology: Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Pre-requisite: ENGL C070
Repeat Status: Not repeatable

This is an introductory course in biological science with laboratory experience for non-majors. The course illustrates the principles of organization, cell structure and function, genetics, metabolism, organ systems, reproduction (plant and animal), ecology, evolution, and animal behavior. The course is not open to students with credit in BIOL C101. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture/54 hours laboratory.

BIOL C111 A/UC/CSU
5.00 Units

General Biology I

Prerequisite: MATH C055
Advisory: CHEM C101, ENGL C070
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers principles of cell biology, metabolism, biochemistry, molecular biology, genetics, and

physiology. 72 hours lecture/54 hours laboratory.

BIOL C111H

A/UC/CSU
6.00 Units

General Biology I: Honors

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Pre-requisite: ENGL C070, MATH C055
Advisory: CHEM C101
Repeat Status: Not repeatable

This is an introductory course for students majoring in biological sciences and related subjects. The course covers principles of cell biology, metabolism, biochemistry, molecular biology, genetics, and physiology. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 90 hours lecture/54 hours laboratory.

BIOL C121

A/UC/CSU
3.00 Units

Survey of Anatomy and Physiology Lecture

Advisory: ENGL C070
Repeat Status: Not repeatable

This is an introductory anatomy and physiology course. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and heredity are also covered. Not open to students who have completed BIOL 125. 54 hours lecture.

BIOL C125

A/UC/CSU
4.00 Units

Survey of Anatomy and Physiology

Advisory: ENGL C070
Repeat Status: Not repeatable

This course is an introductory anatomy and physiology course for students in health career programs. Emphasis is on the structure and function of human cells, tissues, organs, and organ systems. Human development and heredity are also covered. The laboratory component provides a hands-on approach to learning anatomical structures and their physiology. Not open to students

who have completed BIOL 121. 54 hours lecture/54 hours laboratory.

BIOL C255

A/CSU
4.00 Units

Human Physiology

Prerequisite: ENGL C070
Advisory: BIOL C125 or BIOL C251, CHEM C101, MATH C055
Repeat Status: Not repeatable

This course provides students with an understanding of the function and regulation of the human body and physiological integration of the organ systems to maintain homeostasis. Course content includes functions of the integumentary system, neural & hormonal homeostatic control mechanisms, musculoskeletal, circulatory, respiratory, digestive, urinary, lymphatic & immune, reproductive, and endocrine systems. 54 hours lecture/54 hours laboratory.

BSAD C101

A/UC/CSU
4.00 Units

Financial Accounting

C-ID: ACCT 110 Financial Accounting

Advisory: BSOT C070, BSOT C072, MATH C040
Repeat Status: Not repeatable

This is the study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, the application of generally accepted accounting principles, the financial statements, and statement analysis. It includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. 72 hours lecture.

BSAD C102

A/UC/CSU
4.00 Units

Managerial Accounting

C-ID: ACCT 120 Managerial Accounting

Advisory: BSOT C070, MATH C040
Prerequisite: BSAD C101
Repeat Status: Not repeatable

This is the study of how managers use accounting information in decision-

making, planning, directing operations and controlling. It focuses on cost terms and concepts, cost behavior, cost structure and cost-volume-profit analysis. It includes issues relating to cost systems, cost control, profit planning, and performance analysis in manufacturing and service environments. 72 hours lecture.

CHDV C105

A/CSU
3.00 Units

Infant and Toddler Development

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course is a study of infants and toddlers from pre-conception to age three including physical, cognitive, language, social, and emotional growth and development. Students apply theoretical frameworks to interpret behavior and interactions between heredity and environment. This course emphasizes the role of family and relationships in development. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C111

A/CSU
3.00 Units

Principles of Child Guidance

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course introduces positive and effective approaches for guiding children's behavior in the classroom and family settings. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C149

A/CSU
3.00 Units

Play and Meaning

Advisory: CHDV C105 or CHDV C106 or CHDV C107, ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course delves into the intricacies of play in the classroom and how children use play to develop meaning. Special emphasis is placed on building play into the curriculum for children aged birth to school-age. Students are required to observe children in a group setting. 54 hours lecture.

CHDV C203 A/CSU
3.00 Units

Practicum - Field Experience

C-ID: ECE 210 Practicum in Early Childhood Education

Limitation on Enrollment: Students must demonstrate they are clear of TB. Health and Safety and Students must meet the immunization requirements to work with young children. Health and Safety and Students must have a cooperating teacher placement identified before the semester starts. There is a check list counselors will have that students must complete in order to be enrolled in the course.

Prerequisite: CHDV C100, CHDV C102, CHDV C104, CHDV C106, CHDV C121, CHDV C125, CHDV C200.

Repeat Status: Not repeatable

In this course, students demonstrate developmentally appropriate early childhood teaching competencies under guided supervision. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play oriented approaches to teaching, learning, and assessment, as well as knowledge of curriculum content areas, are emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children. Students work in a supervised field experience and are required to perform at least 54 hours of practicum work under the direct supervision of a Master Teacher (or someone who would qualify as a Master Teacher) in an instructor-approved infant/toddler or preschool program. School-age program placement is restricted to before- and after-school programs or kindergarten. Participation in a placement setting requires proof of tuberculosis (TB) and immunization clearance. 36 hours lecture/54 hours laboratory.

CHDV C205 A/CSU
3.00 Units

Care and Education for Infants and Toddlers

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

Students learn to apply current theory and research to the care and

education of infants and toddlers in group settings. The course examines essential policies, principles, and practices that lead to quality care and developmentally appropriate curriculum for children birth to 36 months. Students are required to observe infants and/or toddlers in a group setting. 54 hours lecture.

CHDV C241 A/CSU
3.00 Units

Curriculum and Strategies for Children with Special Needs

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course covers curriculum and intervention strategies for working with children with special needs in partnership with their families. The course focuses on the use of observation and assessment in meeting the individualized needs of children in inclusive and natural environments. The course emphasizes the role of the teacher as a professional working with families, collaborating with interdisciplinary teams, and developing cultural competence. Students will be required to observe children in a group setting. 54 hours lecture.

CHDV C251 A/CSU
3.00 Units

Administration I: Programs in Early Childhood Education

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

Students are introduced to the administration of early childhood programs. The course covers program types, budget, management, regulations, laws, development and implementation of policies and procedures. The course examines administrative tools, philosophies, and techniques needed to organize, open, and operate an early care and education program. Students are required to observe licensed or license-exempt programs in their community. 54 hours lecture.

CHDV C252 A/CSU
3.00 Units

Administration II: Personnel and Leadership in Early Childhood Education

Limitation on Enrollment: Completion of 9 units of Child Development course work including CHDV C251

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course presents effective strategies for personnel management and leadership in early care and education settings. The course includes legal and ethical responsibilities, supervision techniques, professional development, and reflective practices for a diverse and inclusive early care and education program. Students are required to observe licensed or license-exempt programs in their community. 54 hours lecture.

CHDV C281 A/CSU
3.00 Units

Adult Supervision and Mentoring in Early Care and Education

Advisory: ENGL C070, LIBR C100
Repeat Status: Not repeatable

This course addresses the methods and principles of supervising student teachers, volunteers, staff, and other adults in early care and education settings. There is an emphasis on the roles and development of early education professionals as mentors and leaders. Students are required to observe licensed and license-exempt programs in their community. This course satisfies the adult supervision requirement for the Master Teacher level of the Child Development Permit Matrix. 54 hours lecture.

CSCI C146 A
3.00 Units

Introduction to Information Systems Security

Advisory: CSCI C143 or 2 years equivalent experience in the Information Technology field
Repeat Status: Not repeatable

This course provides an introduction to the fundamental principles and topics of Information Technology Security and Risk Management at

the organizational level. It addresses hardware, software, processes, communications, applications, and policies and procedures with respect to organizational Cybersecurity and Risk Management. 54 hours lecture.

EDUC C005 X
0.00 Units

Preparation for the General Education Development Exam (GED)

Repeat Status: Not repeatable

This course is designed to prepare students for the General Educational Development Examination (GED). Instruction is provided for all subject areas of the GED with emphasis on reading, writing, and mathematics and review of general science, humanities, and social studies. Instruction is tailored to student need based on instructor assessment. Students demonstrate progress and readiness for the GED through practice exams. 54 non-standard hours.

HCRS C135 A/CSU
2.00 Units

Basic ICD and CPT Coding

Co-requisite: HCRS C133
Repeat Status: Not repeatable

This course presents a thorough discussion of basic International Classification of Diseases (ICD) and current procedural terminology (CPT) coding. Procedural coding and International Classification of Diseases provides students with the detailed knowledge to implement the specialized coding needed for billing insurance companies. 36 hours lecture.

HIST C104 A/UC/CSU
3.00 Units

Western Civilization - Renaissance to the Modern Era

C-ID: HIST 180 Western Civilization II

Advisory: ENGL C070
Repeat Status: Not repeatable

This course covers the growth and development of European Civilization from the Renaissance to the present, integrating social, political, and cultural developments of European and the Western heritage. 54 hours lecture.

HIST C104H A/UC/CSU
4.00 Units

Western Civilization - Renaissance to the Modern Era: Honors

C-ID: HIST 180 Western Civilization II

Limitation on Enrollment: Acceptance for the Honors program or eligibility for this honors course as determined in consultation with the instructor

Prerequisite: ENGL C070
Repeat Status: Not repeatable

This course covers the growth and development of European Civilization from the Renaissance to the present, integrating social, political, and cultural developments of European and the Western heritage. Honors students meet one extra hour weekly to discuss and evaluate selected primary source materials. 72 hours lecture.

HIST C131 A/UC/CSU
3.00 Units

History of United States to 1877

C-ID: HIST 130 United States History to 1877

Advisory: ENGL C070
Repeat Status: Not repeatable

This course examines the social, political, economic and cultural history of the United States from the establishment of European colonies in the New World through Reconstruction. Special attention is given to the study of select topics, such as the development of American ideologies, institutions, and legal structures. 54 hours lecture.

HIST C131H A/UC/CSU
4.00 Units

History of the United States to 1877: Honors

C-ID: HIST 130 United States History to 1877

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: ENGL C070
Repeat Status: Not repeatable

This course examines the social, political, economic and cultural history of the United States from the establishment of European

colonies in the New World through Reconstruction. Special attention is given to the study of select topics, such as the development of American ideologies, institutions, and legal structures. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

HIST C132 A/UC/CSU
3.00 Units

History of United States from 1877 to Present

C-ID: HIST 140 United States History from 1865

Advisory: ENGL C070
Repeat Status: Not repeatable

The course examines the social, political, economic, and cultural history of the United States from Reconstruction to the present. Special attention will be paid to the study of selected topics, such as American institutions, ideologies, and Constitutional development. 54 hours lecture.

HIST C132H A/UC/CSU
4.00 Units

History of the U.S. from 1877 to Present: Honors

C-ID: HIST 140 United States History from 1865

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: ENGL C070
Repeat Status: Not repeatable

The course examines the social, political, economic, and cultural history of the United States from Reconstruction to the present. Special attention will be paid to the study of selected topics, such as American institutions, ideologies, and Constitutional development. The honors course provides more content and requires greater intensity and depth of study than the non-honors class. 72 hours lecture.

LIBR C100A/CSU
1.00 Unit**Introduction to Library Research and Bibliography**Prerequisite: ENGL C040
Advisory: CSCI C070, ENGL C070.
Repeat Status: Not repeatable

This course presents the fundamentals of the research process and documentation styles. The student is introduced to the organization of information in the library setting and learns to access information through the use of online catalogs and databases. The use of the Internet is covered with particular emphasis on evaluation of information contained in web pages. The course covers the use of printed and electronic reference materials and discusses legal and ethical issues of intellectual property including copyright, fair use, and plagiarism. 9 hours lecture/27 hours laboratory.

method. This course also develops the ability to integrate the principles of critical thinking with the techniques of effective written argument. 54 hours lecture.

thunderstorms, tornadoes, hurricanes, weather analysis and forecasting, climate, and climate change. 54 hours lecture/54 hours laboratory.

PHED C105A/UC/CSU
1.00 Unit**Weight Training I***Repeat Status: Not repeatable*

This course assists students in the development of basic weight training fundamentals and techniques. The course includes material specifically related to strength and muscle development. Emphasis is on individualized programs that contour, build, and firm up the human body in the most efficient manner. The course emphasizes proper care and utilization of equipment involved and the importance of safety. 54 hours activity.

MUSC C118A/UC/CSU
3.00 Units**History of American Pop Music**Advisory: ENGL C070
Repeat Status: Not repeatable

This course is an introduction to the historical and stylistic developments of American popular music, with an emphasis on its cultural, social, economic and political consequences. This course studies the development of Anglo-American folk music, African-American music, Latin music, musical theatre, and various rock styles. Concert attendance required. 54 hours lecture.

PHED C106A/UC/CSU
1.00 Unit**Weight Training II***Repeat Status: Not repeatable*

This intermediate level course provides knowledge and strength development. The course emphasizes development of a weight training program and adaptation of strength training to individual needs. The course includes proper care and utilization of equipment involved and the importance of safety. 54 hours activity.

PHIL C131A/UC/CSU
3.00 Units**Logic and Critical Reasoning****C-ID: PHIL 110 Introduction to Logic**Advisory: ENGL C070
Repeat Status: Not repeatable

This course introduces students to the principles of inductive and deductive inference and their practical applications in everyday situations, such as problem solving and evaluation of arguments. The course examines the uses of language, formal and informal fallacies, syllogistic argument forms, and scientific

PHSC C135A/UC/CSU
4.00 Units**Introduction to Meteorology****C-ID: GEOG 130 Introduction to Weather and Climate**Advisory: ENGL C070
Repeat Status: Not repeatable

This lecture and laboratory course in introductory meteorology emphasizes meteorology's interdisciplinary physical science basis and methods. Concepts covered include atmospheric composition and structure, solar-terrestrial relations, radiation, heat, temperature, seasons, air pressure, humidity, atmospheric stability, clouds and cloud systems, precipitation, wind and circulation,

2017-2018 Catalog Addendum

Cerro Coso Community College

3000 College Heights Blvd.
Ridgecrest, CA 93555

www.cerrocoso.edu
760-384-6100

If this material is needed in alternate format for people with disabilities,
please contact ACCESS Programs at **760-384-6250**.

Disclaimer

Cerro Coso Community College reserves the right to modify its programs, tuitions and fees, admission and graduation requirements, schedules, and other policies, procedures, and regulations stated in this catalog without notice.

Cerro Coso Community College is a member
of the Kern Community College District

Publication Staff

Dr. Corey Marvin, *Editor*
Deborah Gregory, *Graphic Design and Layout*
Sylvia Sotomayor, *Assistant Editor*

Accreditation

Cerro Coso Community College is accredited by the Western Association of Schools and Colleges and is fully approved by the Board of Governors, California Community Colleges and other state and federal agencies. The University of California, California State Universities and other Universities and colleges grant credit to lower division transfer courses completed at Cerro Coso Community College.

Program Changes

New Programs

Private and Proprietary Security Academy Job Skills Certificate

The Private and Proprietary Security Academy Job Skills Certificate (2.5 Units) is designed for students pursuing employment as a registered security guard or private security officer and shall follow the standards prescribed by section 7583.6(b) of the Business and Professions Code. The program will provide the student with the required 40 hours of training for state licensure as a Security Guard through the Bureau of Security and Investigative Services, and includes the state mandated licensure exam. Upon completion of this training and successfully passing the state exam, the student may apply to the state for licensure as a Security Guard. State Licensure is contingent on completing the training, obtaining a passing score on the state exam, and a Livescan.

Complete each course to be applied toward the certificate with a grade of “C” or better.

This program prepares students for careers in Private and Proprietary Security: Private Security Guard, Loss Prevention/Assets Protection Specialist, Proprietary Security Officer, and Proprietary Investigator.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Apply statutory and case law to the principles and practice of private security.

Changed Programs

Changes in Red

Liberal Arts: Arts & Humanities Associate in Arts Degree

The Liberal Arts: Arts & Humanities Associate in Arts Degree (60 units total, 18 units in the area of emphasis): The Liberal Arts degrees are designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an area of emphasis. This emphasis allows students to satisfy general education requirements as well as focus on transferable course work. It is ideal for students

- Describe the individual functions and integrations of the components of the criminal justice system and explain how they interact with the private security sector.
- Explain the underlying causes of terrorism.
- Use legal research skills to locate, analyze, and discuss the content of statutory and case law as it applies to merchant privilege and liability.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Complete all of the following courses:

ADMJ C050	Powers to Arrest & Weapons of Mass Destruction	0.5
ADMJ C051	Public Relations and Liability	0.5
ADMJ C052	Communication, Observation and Documentation	0.5

Complete two of the following courses:

ADMJ C053	Search, Seizure, and Preservation of the Scene.....	0.5
ADMJ C054	Officer Safety and First Aid/CPR.....	0.5
ADMJ C055	Conflict Management and Crowd Control.....	0.5

who plan on transferring to California State University (CSU) or University of California (UC) for a major in education or for a major that Cerro Coso does not offer. Please consult with a counselor for information regarding your intended major at the specific college or university of your choice.

Courses in the Liberal Arts: Arts & Humanities AA degree emphasize the study of cultural, literary, humanistic activities, and artistic expression of human beings. Students evaluate and interpret the ways in which people through the ages in different cultures have responded to themselves and the world around them in artistic and cultural creation. Students also

learn to value aesthetic understanding and incorporate these concepts when constructing value judgments. This degree is appropriate for students intending to transfer into such majors as art, English, humanities, and philosophy. If you have questions about whether this degree is an appropriate choice for your major, please consult with a counselor or educational advisor.

A minimum of 18 units are required in one Area of Emphasis listed below. For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis. Courses selected may also be used to fulfill GE areas, refer to each transfer institution policy.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school. Consult a counselor and visit <http://www.assist.org/> to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” or “C,” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.

Completion of the Cerro Coso Local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Describe how people throughout the ages and in different cultures have responded to themselves and the world around them in artistic and cultural expression.
- Evaluate the significance of artistic and cultural constructions.
- Evaluate the origins, varieties, and meaning of expressions and artifacts of human experience, related to at least one of the following: (a) original written texts in various literary forms, (b) works of visual art and design, (c) musical compositions, or (d) dramatic

performance (live theater, dance, film, video, digital, etc.).

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Select at least 18 units from the following courses, including at least two courses marked with an *.

ANTH C141 *	Native Peoples of North America	3 Units
ART C101*	Introduction to Art.....	3
ART C105*	Survey of Western Art from Prehistory through the Middle Ages.....	3
ART C106*	Survey of Western Art from Renaissance to Contemporary	3
or ART C106H*	Survey of Western Art from Renaissance to Contemporary: Honors	4
ART C107 *	Survey of Asian Art	3
ART C108 *	Modern Art.....	3
ART C111	Two Dimensional Design	3
ART C115	Three Dimensional Design.....	3
ART C121	Drawing I.....	3
ART C131	Painting I.....	3
ART C151	Sculpture I.....	3
ART C221	Drawing II.....	3
ASL C101	American Sign Language I	4
ASL C102	American Sign Language II.....	4
ENGL C102*	Critical Thinking Through Literature	4
or ENGL C102H*	Critical Thinking Through Literature: Honors	5
ENGL C111	Introduction to Types of Literature.....	3
ENGL C141	Introduction to Creative Writing.....	3
ENGL C221*	World Literature: Antiquity to 17th Century.....	3
or ENGL C221H*	World Literature: Antiquity to 17th Century: Honors	4
ENGL C222*	World Literature: 17th Century to Present	3
or ENGL C222H*	World Literature: 17th Century to Present: Honors	4
ENGL C231*	Survey of British Literature I: Beginning-1785.....	3
ENGL C232*	Survey of British Literature II: 1785-Present.....	3
ENGL C235*	Introduction to Shakespeare	3
or ENGL C235H*	Introduction to Shakespeare: Honors.....	4
ENGL C241*	Survey of American Literature I: Beginning-1865.....	3
ENGL C242*	Survey of American Literature II: 1865-Present.....	3
ENGL C245*	Women's Literature	3
or ENGL C245H*	Women's Literature: Honors	4
ENGL C249*	Multi-Ethnic American Literature	3
FILM C211*	Hispanic Cinema	3
FREN C101	Elementary French I.....	5
HIST C103	Western Civilization – Antiquity	

	to the Renaissance.....	3
or HIST C103H	Western Civilization – Antiquity to the Renaissance: Honors	4
HIST C104*	Western Civilization – Renaissance to the Modern Era	3
or HIST C104H*	Western Civilization – Renaissance to the Modern Era: Honors	4
LATN C101	Elementary Latin I.....	4
LATN C102	Elementary Latin II	4
LATN C201	Intermediate Latin I.....	4
LATN C202	Intermediate Latin II	4
MUSC C101*	Music Appreciation	3
or MUSC C101H*	Music Appreciation: Honors.....	4
MUSC C118*	History of American Pop Music.....	3
MUSC C126	Beginning Guitar	2
MUSC C131	Orchestra	1
MUSC C141	Community Band	1
MUSC C151	Choir.....	1
MUSC C173*	Appreciation of Jazz.....	3
PHIL C101	Introduction to Philosophy	3
PHIL C131	Logic and Critical Reasoning.....	3
PHIL C141*	Ethics	3
PHIL C161*	Introduction to Religious Studies.....	3
SOCI C210	Diversity and Film	3
SPAN C100	Basic Conversational Spanish	3
SPAN C101	Elementary Spanish I	5
SPAN C102	Elementary Spanish II.....	5
SPAN C171	Intermediate Conversational Spanish.....	3
SPAN C180	Spanish for Native Speakers	3
SPAN C211*	Hispanic Cinema	3
SPCH C101	Elements of Speech.....	3

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Liberal Arts: Mathematics & Science Associate in Arts Degree

Liberal Arts: Mathematics & Science Associate in Arts Degree (60 units total, 18 units in the area of emphasis): The Liberal Arts degrees are designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis”. This emphasis allows students to satisfy general education requirements as well as focus on transferable course work. **It is ideal for students who plan on transferring to a California State University (CSU) or a University of California (UC) in a major that Cerro Coso does not offer.**

Courses in the Liberal Arts: Mathematics & Science AA Degree emphasize the natural sciences which examine the physical universe, its life forms, and its natural phenomena. Courses in math emphasize the development of mathematical and quantitative

reasoning skills beyond the level of intermediate algebra. Students will be able to demonstrate an understanding of the methodologies of science as investigative tools. This degree is appropriate for students intending to transfer into such majors as education, various health career programs, or other science-based majors.

Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for the corresponding major at a four-year school.

Consult a counselor and visit <http://www.assist.org/> to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” or “C,” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.

Completion of the Cerro Coso local General Education Pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school, depending on your transfer goal, you should select Option B or C only. For more information refer to the general education section of the catalog.

Program Learning Outcomes

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

- Describe the nature of science, the methods applied in scientific investigations, and the value of those methods in developing a rigorous understanding of the physical world.
- Apply algebraic, graphical, numerical, and other methods to solve applied problems in the areas of mathematics, natural sciences, computer graphics, and computer animation.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Select at least 18 units from the following courses.
At least one course must be from Mathematics and at least two courses from the sciences, including one laboratory or field experience course (*).

ANTH C121	Physical Anthropology.....	3 Units
or ANTH C121H	Physical Anthropology - Honors.....	4
ANTH C122 *	Physical Anthropology Laboratory	1
BIOL C101	Principles of Biology	3
BIOL C105*	Concepts of Biology	4
or BIOL C105H*	Concepts of Biology: Honors.	5
BIOL C111*	General Biology I.....	5
or BIOL C111H*	General Biology I: Honors.....	6
BIOL C112 *	General Biology II	5
or BIOL C112H*	General Biology II: Honors	6
BIOL C125 *	Survey of Anatomy and Physiology	4
or BIOL C121	Survey of Anatomy and Physiology Lecture.....	3
BIOL 145 *	Environmental Studies.....	4
or BIOL C141	Environmental Studies Lecture.....	3
BIOL C251 *	Human Anatomy	4
BIOL C255 *	Human Physiology	4
BIOL C262 *	General Microbiology	5
CHEM C101 *	Introduction to Chemistry	4
CHEMC111 *	General Inorganic Chemistry I.....	5
CHEM C113 *	General Inorganic Chemistry II	5
or CHEMC113H*	General Inorganic Chemistry II: Honors Undergraduate Laboratory Research	6
CHEM C221 *	Organic Chemistry I.....	5
CHEM C223 *	Organic Chemistry II.....	5
or CHEM C223H*	Organic Chemistry II: Honors Undergraduate Laboratory Research	6
CSCI C251	Introduction to Programming Concepts and Methodologies	3
CSCI C252	Introduction to Computer Science	3
CSCI C254	Object Oriented Programming.....	3
CSCI C255	Discrete Structures	3
CSCI C265	Introductory C++ Programming.....	3
CSCI C267	Introduction to JAVA Programming.....	3
GEOG C101	Physical Geography Lecture.....	3
GEOG C111 *	Physical Geography	4
GEOL C111 *	Physical Geology.....	4
MATH C121	Elementary Probability and Statistics	4
or MATH C121H	Elementary Probability and Statistics – Honors.....	5
MATH C130	Finite Mathematics.....	4
MATH C131	Basic Functions and Calculus for Business.....	4
MATH C141	College Algebra.....	4
MATH C142	Trigonometry	4
MATH C151	Analytic Geometry and Calculus I.....	5
MATH C152	Analytic Geometry and Calculus II	5
MATH C251	Analytic Geometry and Calculus III.....	5
MATH C255	Ordinary Differential Equations.....	4
MATH C257	Linear Algebra.....	4
PHSC C105 *	General Earth Sciences	4
or PHSC C101	General Earth Sciences Lecture	3
PHSC C115 *	Physical Science	4
or PHSC C111	Physical Science Lecture	3
PHSC C121	Astronomy Lecture.....	3
PHSC C125*	Astronomy	4
PHSC C131	Introduction to Meteorology Lecture	3
PHSC C132*	Introduction to Meteorology Laboratory	1
PHSC C135 *	Introduction to Meteorology	4

PHYS C111*	Mechanics	5
PHYS C113*	Electricity and Magnetism	5
PHYS C211*	Waves, Optics and Modern Physics	5

Complete one of the following general education patterns:

OPTION A	Cerro Coso Local General Education Pattern
OPTION B	CSU General Education Breadth
OPTION C	IGETC - Intersegmental General Education Transfer Curriculum

Liberal Arts: Social & Behavioral Sciences Associate in Arts Degree

The Liberal Arts: Social & Behavioral Sciences Associate in Arts Degree (60 units total, 18 units in the area of emphasis): The Liberal Arts degrees are designed for students who wish to have a broad knowledge of liberal arts and sciences plus additional coursework in an “Area of Emphasis.” This emphasis allows students to satisfy general education requirements as well as focus on transferable coursework. It is ideal for students who plan on transferring to a California State University (CSU) or a University of California (UC) in a major that Cerro Coso does not offer.

Courses in the Liberal Arts: Social & Behavioral Sciences AA degree emphasize the perspectives, concepts, theories and methodologies of the disciplines that comprise study in the social and behavioral sciences. Students study about themselves and others as members of a larger society. Topics and discussion to stimulate critical thinking about ways people have acted in response to their societies allow students to evaluate how societies and social subgroups operate. This degree is appropriate for students intending to transfer into such majors as anthropology, economics, history, political science, and sociology. If you have questions about whether this area of emphasis is an appropriate choice for your major, please consult with a counselor or educational advisor.

A minimum of 18 units are required in one Area of Emphasis listed below. For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis. Courses selected may also be used to fulfill GE areas, refer to each transfer institution policy.

Courses required for the associate degree major at Cerro Coso Community College may not be the same as those required for the major at a four-year school. Consult a counselor and visit <http://www.assist.org/>

to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the area of emphasis and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” or “C,” in all courses of the area of emphasis. A minimum of 12 units must be completed at Cerro Coso Community College.

Completion of the Cerro Coso Local General Education pattern DOES NOT prepare a student for transfer. If you are planning to transfer to a four-year school depending on your transfer goal you should select Option B or C only. Please consult with a counselor or educational advisor if you have any questions about which option is right for you.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Apply major concepts and methods used by social or behavioral scientists to investigate, to analyze, or to predict human or group behavior.
- Evaluate how social scientists view the ways that individuals and societies are interconnected within social, historical, political, and cultural environments.

Courses

Note: Some courses within the major may have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the faculty chair. For the Prerequisite Challenge to be considered, you must submit documentation/verification to substantiate the basis for the challenge. Please consult a counselor for more information regarding Prerequisite Challenge.

Select at least 18 units from the following courses:

For depth of study, 2 or more courses in one discipline required. For breadth of study, courses must be taken from 2 or more disciplines within the Area of Emphasis.

ADMJ C101	Introduction to Administration of Justice	3 Units
ANTH C111	Cultural Anthropology	3
ANTH C121	Physical Anthropology.....	3
or ANTH C121H	Physical Anthropology - Honors.....	4
ANTH C131	Archaeology.....	3
ANTH C141	Native Peoples of North America	3
CHDV C104	Child, Family and Community.....	3
CHDV C105	Infant and Toddler Development	3
CHDV C106	Child Growth and Development	3

CHDV C107	School Age Development	3
ECON C101	Introduction to Economics	3
ECON C102	Macroeconomics.....	3
ECON C103	Microeconomics	3
HCRS C250	Cultural Diversity in Health Care.....	3
HCRS C260	Ethics for the Health Professional	3
HIST C103	Western Civilization – Antiquity to the Renaissance.....	3
or HIST C103H	Western Civilization – Antiquity to the Renaissance: Honors	4
HIST C104	Western Civilization – Renaissance to the Modern Era	3
or HIST C104H	Western Civilization – Renaissance to the Modern Era: Honors	4
HIST C118	California History.....	3
HIST C131	History of United States to 1877	3
or HIST C131H	History of United States to 1877: Honors	4
HIST C132	History of United States from 1877 to Present.....	3
or HIST 132H	History of United States from 1877 to Present: Honors.....	4
HIST C209	History of Mexico	3
MATH C121	Elementary Probability and Statistics	4
or MATH C121H	Elementary Probability and Statistics – Honors.....	5
PHIL C131	Logic and Critical Reasoning	3
POLS C101	American Government.....	3
or POLS C101H	American Government: Honors.....	4
POLS C102	Comparative Government.....	3
POLS C103	Introduction to Political Theory.....	3
PSYC C101	General Psychology.....	3
or PSYC C101H	General Psychology: Honors.....	4
PSYC C112	Psychology of Substance Abuse	3
PSYC C151	Human Sexuality.....	3
PSYC C181	Lifespan Development	3
PSYC C220	Physiological Psychology.....	3
PSYC C241	Abnormal Psychology	3
PSYC C271	Research Methods in the Social and Behavioral Sciences.....	3
SOCI C101	Introduction to Sociology.....	3
SOCI C131	Sociology of Gender	3
SOCI C151	Perspectives on Race and Ethnicity.....	3
SOCI C161	Crime and Society	3
SOCI C210	Diversity and Film	3

Complete one of the following general education patterns:

- OPTION A Cerro Coso Local General Education Pattern
- OPTION B CSU General Education Breadth
- OPTION C IGETC - Intersegmental General Education Transfer Curriculum

Web Professional Associate in Science Degree

The Web Professional Associate of Science Degree (60 units total, 28 units in major) is designed to prepare students for employment or self-employment as web designers or developers, emphasizing standards-based coding, usability, accessibility, and creative problem solving. Adding to this foundation, students choose one of two options: design or development. With the

former, students acquire multimedia design skills, and with the latter they acquire web programming skills. Students obtain skills in Adobe applications, as well as open source products. Students develop realistic expectations about work conditions through individual and collaborative work-based projects and by learning in the same technological environment in which they will eventually work. The web development option is also designed to equip students for Certified Internet Web Professional certifications, including the Web Foundations Associate Series and the Web Design Specialist certifications.

This degree is NOT specifically designed for transfer. Courses required for the Associate degree major at Cerro Coso Community College may not be the same as those required for a major at a four-year school. If you do plan to transfer, consult a counselor and visit <http://www.assist.org/> to identify the courses needed for the major at your transfer school and to develop a plan that will best meet your goals.

You must complete a minimum of 60 units, including the courses listed in the major and general education requirements, with an overall GPA of 2.0 or better, and a grade of “A,” “B,” or “C” in all courses for the major. A minimum of 12 units must be completed at Cerro Coso Community College.

P/NP grading may not be used for courses in a student’s major field.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Identify concepts of Internet technology, databases, eCommerce, and electronic communications.
- Demonstrate technical mastery of open-source and commercial software applications to produce web content and media.
- Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of web content.
- Apply principles of user-centered design, develop an attractive, accessible, and usable web site or mobile application.
- Demonstrate professionalism in leadership, project management, and communications skills.

Courses

Note: Some courses within the major have a required prerequisite.

If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the Department Chair. For the Prerequisite Challenge to be considered, you must submit documentation and verification to substantiate the basis for the challenge. Please see a counselor for more information about the Prerequisite Challenge process.

Core Requirements (Complete all of the following courses)

CSCI C101	Introduction to Computer Information Systems	3 units
DMA C102	Digital Imaging	3 units
DMA C111	Fundamentals of Web Development.....	3 units
DMA C113	Accessibility and UX Design.....	4 units
DMA C280	Production Management.....	3 units

Students must additionally complete 1 of the following options:

Option 1: Design (Complete 12 units)

DMA C107	Computer Illustration	3 units
DMA C117	Web Design.....	3 units
DMA C131	Digital Video Production	3 units
DMA C201	E-Commerce	3 units

Option 2: Development (Complete 12 units)

DMA C119	Advanced Web Development.....	3 units
DMA C211	Web Scripting with Javascript	3 units
DMA C213	Web Development with PHP and MySQL .	3 units
DMA C214	Web Development with Python.....	3 units

Complete one of the following general education patterns:

OPTION A	Cerro Coso Local General Education Pattern
OPTION B	CSU General Education Breadth
OPTION C	IGETC—Intersegmental General Education Transfer Curriculum

Web Professional Certificate of Achievement

The Web Professional Certificate of Achievement (28 Units) is designed to prepare students for employment or self-employment as web designers or developers, emphasizing standards-based coding, usability, accessibility, and creative problem solving. Adding to this foundation, students choose one of two options: design or development. With the former, students acquire multimedia design skills, and with the latter they acquire web programming skills. Students obtain skills in Adobe applications, as well as open source products. Students develop realistic expectations about work conditions through individual and collaborative work-based projects and by learning in the same technological environment in which they will eventually work. The web development option is also designed to equip students for Certified Internet

Web Professional certifications, including the Web Foundations Associate Series and the Web Design Specialist certifications.

Students must complete 28 units in the program with a grade of “A,” “B,” or “C” in all courses for the major. P/ NP grading may not be used for courses in a student’s major field.

This program prepares students for careers in Information Technology: Web Design, Web Development.

Program Learning Outcomes

Upon successful completion of the program, the student will be able to

- Identify concepts of Internet technology, databases, eCommerce, and electronic communications.
- Demonstrate technical mastery of open-source and commercial software applications to produce web content and media.
- Use valid markup, cascading style sheets, semantic encoding, accessibility compliance, and error-free scripting in the creation of web content.
- Apply principles of user-centered design, develop an attractive, accessible, and usable web site or mobile application.
- Demonstrate professionalism in leadership, project management, and communications skills.

Courses

Note: Some courses within the major have a required prerequisite. If you feel you have equivalent knowledge and skills to those included in the prerequisite course through professional experience, licensure or certification, you have the opportunity to submit a Prerequisite Challenge to be reviewed by the Department Chair. For the Prerequisite Challenge to be considered, you must submit documentation and verification to substantiate the basis for the challenge. Please see a counselor for more information about the Prerequisite Challenge process.

Core Requirements (Complete all of the following courses)

CSCI C101	Introduction to Computer Information Systems	3 units
DMA C102	Digital Imaging	3 units
DMA C111	Fundamentals of Web Development.....	3 units
DMA C113	Accessibility and UX Design.....	4 units
DMA C280	Production Management.....	3 units

Students must additionally complete 1 of the following options:

Option 1: Design (Complete 12 units)

DMA C107	Computer Illustration	3 units
DMA C117	Web Design.....	3 units
DMA C131	Digital Video Production	3 units
DMA C201	E-Commerce	3 units

Option 2: Development (Complete 12 units)

DMA C119	Advanced Web Development.....	3 units
DMA C211	Web Scripting with Javascript	3 units
DMA C213	Web Development with PHP and MySQL.	3 units
DMA C214	Web Development with Python.....	3 units

New Courses

ADMJ C050 A 0.5 Units
Powers to Arrest & Weapons of Mass Destruction

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Repeat Status: Not repeatable

This course familiarizes and instructs the individual on the training topics delineated at Business and Professions Code section 7583.7, including legal aspects, techniques, liability, and company requirements relating to the arrest of an individual. The training utilizes the Department of Consumer Affairs? Power to Arrest Training Manual. In addition the students learn the subject matter and observation skills required to identify and report precursor activities to a terrorist event, react appropriately, report the occurrence of a terrorist event, and remain safe while helping control the scene after a terrorist event. The training utilizes the Department of Consumer Affairs? Weapons of Mass Destruction & Terrorism Awareness for Security Professionals course consisting of a Digital Video Disk (DVD), Student Workbook, and Facilitator Manual.

ADMJ C051 A 0.5 Units
Public Relations and Liability

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Prerequisite: ADMJ C050
Repeat Status: Unlimited

This course covers the required learning domains outlined in section 7583.6(b) of the Business and Professions Code for newly licensed security officers concerning the importance of public relations with both community and customer. The course provides important information concerning discrimination, diversity, substance abuse, and the mentally ill. The course includes communication skills and de-escalation techniques for crisis intervention. The course also provides the required learning domains surrounding security officers and liability in the course of their duties.

ADMJ C052 A 0.5 Units
Communication, Observation and Documentation

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Prerequisite: ADMJ C050
Repeat Status: Unlimited

This course covers the required learning domains as prescribed by the Bureau of Security and Investigative Services in section 7583.6(b) of the Business and Professions Code in reference to communication, observation, and documentation.

ADMJ C053 A 0.5 Units
Search, Seizure, and Preservation of the Scene

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Prerequisite: ADMJ C050
Repeat Status: Unlimited

This course is designed to provide the student with information concerning the legal powers of a security/proprietary officer to perform a search and/or seizure. The course also covers the methods for, and importance of, preserving the incident scene.

ADMJ C054 A 0.5 Units
Officer Safety and First Aid/CPR

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Prerequisite: ADMJ C050
Repeat Status: Unlimited

This course provides the student with the knowledge and skills required to identify potentially hazardous situations including environmental, chemical, biological, and situational dangers. The student also receives instruction on basic first aid and CPR.

ADMJ C055 A 0.5 Units
Conflict Management and Crowd Control

Limitation on Enrollment: Student must have reached their 18th birthday prior to completion of the course. Required by Statute.

Prerequisite: ADMJ C050
Repeat Status: Unlimited

This course provides the student with the knowledge and skills necessary for conflict management in a private security setting. The course provides information on verbal diffusion and negotiations. The student also learns the various tactics and tools employed in crowd control situations.

DMA C131 A/CSU 3 Units
Digital Video Production

Repeat Status: Not repeatable

This course introduces digital video production techniques including: single camera operation and procedures, basic principles and techniques of sound and scriptwriting, and digital video editing. Course topics include the operation of digital camcorders, lighting and sound equipment; post-production digital editing suites; concepts and techniques of nonlinear digital editing, including organization of the editing process; and working timeline and audio editing, with emphasis on the principles and aesthetics of video editing.

DMA C214 A/CSU 3 Units

Web Development with Python

Advisory: DMA C211
 Repeat Status: Not repeatable

This course introduces students to the fundamentals of web site and web application development using Python. Students learn basic programming concepts such as variables, objects, conditionals, data types, iteration, functions, containers, expressions, and string methods in a desktop environment. Students then apply that knowledge to gain experience using web services and creating a web page with Python. Students must have existing proficiency in Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) and have an understanding of basic programming concepts to be successful in this class.

Repeat Status: Unlimited

This course provides instruction to law enforcement officers in response, scene safety, security, evaluation, and emergency medical care. This course also includes instruction in the care rendered on specialty response situations managed by law enforcement until traditional medical personnel are clear to enter the scene. The student shall meet health requirements to participate in the clinical section of the course. Mandatory physical examination/immunizations will be required within two weeks of the beginning of the course and are at the student's expense. Failure to meet these requirements will result in student ineligibility for clinical objectives. Upon successful completion of the mandated course criteria the student receives a Certificate of Completion. This qualifies the student to apply for and take the national exam for the Emergency Medical Technician, to ultimately qualify for application within the State of California to become certified. The student must provide a valid American Heart Association Healthcare Provider CPR/AED card to the instructor at the first class session to remain enrolled in this course.

EMTC C107 A/CSU 9.5 Units

Emergency Medical Technician for Law Enforcement

Prerequisite: ADMJ C145 or equivalent

Revised Courses**Changes in Red**

ADMJ C143 A/CSU 10.00 Units

Basic Peace Officer Academy Modular Format Level II

Limitation on Enrollment: Must successfully pass a fingerprint check through the California Department of Justice and meet the entry requirements established by the California Commission on Peace Officer Standards and Training (POST) for this course.

Prerequisite: ADMJ C142
 Repeat Status: Not repeatable

This course is designed to fulfill State of California Peace Officer Standards and Training requirements for Level I academy certification. This course prepares students to successfully transition to the Basic Academy Modular Level I Course. **A successful Livescan fingerprint background check is required. 162 hours lecture/54 hours laboratory.**

advanced topics in chemistry and requires greater intensity and depth of study above and beyond that of the non-honors class. 90 hours lecture/54 hours laboratory.

CHEM C223H A/UC/CSU 6.00 Units

Organic Chemistry II: Honors Undergraduate Laboratory Research

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: CHEM C221
 Repeat Status: Not repeatable

In this course students learn about the chemistry of aromatic compounds, alcohols, thiols, ethers, epoxides and sulfides, aldehydes, ketones, carboxylic acid and carboxylic acid derivatives, amino acids, proteins, amines, phenols, carbohydrates, lipids, heterocycles polymers, biological systems. Pericyclic, carbonyl condensation, alpha substitution and other reaction mechanisms are also covered. This Organic Chemistry II honors course is taught according to the standards developed by the American Chemical Society. This honors course provides more content and requires greater intensity and depth of study than the non-honors Organic Chemistry class. 90 hours lecture/54 hours laboratory.

CHEM C113H A/UC/CSU 6.00 Units

General Inorganic Chemistry II: Honors Undergraduate Laboratory Research

Limitation on Enrollment: Acceptance to the Honors Program or eligibility for this honors course as determined by the instructor.

Prerequisite: CHEM C111
 Repeat Status: Not repeatable

In this course students learn about modern materials, properties of solutions, kinetics, chemical and aqueous equilibrium, acids and bases, environmental chemistry, thermodynamics, **electro-chemistry**, nuclear chemistry, metallurgy, chemical trends in the periodic chart, coordination compounds, and bioorganic chemistry. The honors course provides more content in the form of

EMTC C105 A/CSU 9.50 Units

Emergency Medical Technician

Advisory: ENGL C101, HCRS C150
 Repeat Status: Not repeatable

This course provides instruction in pre-hospital techniques in the evaluation and emergency medical care through the recognition of signs and symptoms of illnesses and injuries. This course also includes instruction in the care rendered

