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

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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.*
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Programs of Study

Deleted Programs

Industrial Technology Associate in Science Degree

Industrial Technology Certificate of Achievement

Courses

New Courses

ADMJ C299H  A/CSU  0.50
Honors Seminar in Administration of Justice
Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

ART C253  A/UC/CSU  3.00
Sculpture II
Prerequisite: ART C151
Repeat Status: Not repeatable
This course introduces intermediate sculptural principles, concepts, processes, and techniques. A combined lecture and studio approach provides students with the opportunity to develop perceptual skills that enable them to create sculptures for personal artistic expression. 27 hours lecture/81 hours laboratory.

ART C299H  A/CSU  0.50
Honors Seminar in Arts
Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

BIOL C299H  A/CSU  0.50
Honors Seminar in Biology
Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

BUS C299H  A/CSU  0.50
Honors Seminar in Business
Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

CHEM C299H  A/CSU  0.50
Honors Seminar in Chemistry
Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in
appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

CSCI C299H A/CSU 0.50

Honors Seminar in Computer Information Systems

Prerequisite: ENGL C070
Repeat Status: Not repeatable

In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

ENGL C299H A/CSU 0.50

Honors Seminar in English and Foreign Languages

Prerequisite: ENGL C070
Repeat Status: Not repeatable

In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

HCRS C144 A/CSU 3.00

Advanced Medical Billing

Prerequisite: HCRS C134
Advisory: BIOL C121, ENGL C070
Repeat Status: Not repeatable

This course introduces health insurance, reimbursement, legal issues, and differences in reimbursement methodologies. Topics include the advanced principles of medical billing related to proper claim form preparation, submission and payment processing, and the follow up process. This course is recommended for anyone who is preparing for a career in a medical billing department at a physician’s office, clinic, or similar positions. 54 hours lecture.

HCRS C145 A/CSU 4.00

Advanced Medical Coding

Prerequisite: HCRS C135
Advisory: BIOL C121, ENGL C070
Repeat Status: Not repeatable

This course introduces the principles of medical coding related to the three main code books: Current Procedural Terminology, International Classification of Diseases-Tenth Revision, Clinical Modification (ICD-10-CM), and Healthcare Common Procedural Coding System, Level II (HCPCS). This course is recommended for anyone who is preparing for a career in medical coding for medical facilities. It is strongly recommended for anyone who is preparing for American Association Professional Coders’ (AAPC) Certified Professional Coder (CPC) certification examination. 72 hours lecture.

KINS C102 A/UC/CSU 3.00

Physical Activity and Lifelong Well-Being

Repeat Status: Not repeatable

This course explores the integration of physiological, psychological and sociological understandings of the human being in relationship to physical activity as a lifelong pursuit. Topics include physical fitness, nutrition, stress reduction, socialization, and individual differences in human behavior. Students are expected to perform basic fitness assessments as part of this course. 54 hours lecture.

KINS C117 A/UC/CSU 1.00

Fundamentals of Basketball

Repeat Status: Not repeatable

This is a beginning course to introduce the fundamentals of basketball skills. This class will place emphasis on the fundamentals of shooting, passing, dribbling, offensive and defensive strategies, and the rules of basketball. 36 hours activity.

LIBR C111 A/UC/CSU 3.00

Advanced Library Research and Information Studies

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

This course covers academic research and documentation, critical inquiry, and the impacts of living in an information society. The student is introduced to theoretical frameworks surrounding information organization, dissemination, access, evaluation, and creation while learning to navigate academic library collections. The use of the Internet is covered with particular emphasis on evaluation of information and the importance of media literacy. The course explores the social, psychological, and physiological aspects of living in an information-saturated society, as well as the legal and ethical issues of intellectual property. 54 hours lecture.

MATH C299H A/CSU 0.50

Honors Seminar in Math

Prerequisite: ENGL C070
Repeat Status: Not repeatable

In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

SOSC C299H A/CSU 0.50

Honors Seminar in Social Science

Prerequisite: ENGL C070
Repeat Status: Not repeatable
In this advanced honors course, students conduct independent research to develop and critically analyze a topic appropriate for intensified study. Students synthesize and analyze information from a variety of sources, identify and critically evaluate university-level research sources, and incorporate these into a 2500-word research paper in appropriate documentation format. Satisfies part of the requirements for the Honors Program. 9 hours lecture.

**Changed Courses**

**ANTH C122** A/UC/CSU 1.00 Unit

**Biological Anthropology Laboratory**

**C-ID: ANTH 115L Biological Anthropology Laboratory**

Co-requisite: ANTH C121 or ANTH C121H

*Repeat Status: Not repeatable*

This laboratory course is offered as a supplement to **Biological Anthropology** and must be taken concurrently with ANTH C121. Laboratory exercises are designed to introduce students to the scientific method, and explore genetics, human variation, human and non-human primate anatomy and behavior, the primate/hominin fossil record, and other resources to investigate processes that affect human evolution. 54 hours laboratory.

**HCRS C134** A/CSU 3.00 Units

**Basic Medical Insurance and Billing**

Prerequisite: HCRS C150, HCRS C130, HCRS C131, HCRS C132

*Repeat Status: Not repeatable*

This course presents the basic functions of the insurance and billing practices for healthcare workers. Topics include management of basic financial activities for healthcare facilities including medical insurance, methods of establishing professional fees, billing laws and regulations, banking, and bookkeeping. 54 hours lecture.

**IT C101** A/UC/CSU 3.00 Units

**Introduction to Computer Information Systems**

**C-ID BUS 140, ITIS 120 Business Information Systems, Computer Information Systems**

Advisory: ENGL C070

*Repeat Status: Not repeatable*

This course is an examination of information systems and their role in business. Focus is on information systems, database management systems, networking, e-commerce, ethics and security, computer systems hardware and software components. Students develop computer-based solutions to business problems. *Note: This course was formerly CSCI C101.* 36 hours lecture/54 hours laboratory.

**IT C142** A/CSU 4.00 Units

**Information & Communication Technology Essentials**

**C-ID: ITIS 110 Information & Communication Technology Essentials**

Advisory: IT C101

*Repeat Status: Not repeatable*

This course provides an introduction to the computer hardware and software skills needed to help meet the growing demand for entry-level Information and Communications Technology (ICT) professionals. The fundamentals of computer hardware and software as well as advanced concepts such as security, networking, and the responsibilities of an ICT professional are introduced. This course prepares students for the CompTIA's A+ certification exam. *Note: This course was formerly CSCI C142.* 54 hours lecture/54 hours laboratory.

**IT C143** A/CSU 3.00 Units

**Computer Network Fundamentals**

**C-ID: ITIS 150 Computer Network Fundamentals**

Advisory: IT C142 or 1 year equivalent building and/or maintaining computer systems which includes setting up equipment, installing software and repairing. Additional experience in setting up computers on a network is needed. *Repeat Status: Not repeatable*

This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP (Internet Protocol) addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for further study of computer networks. It uses the OSI (Open Systems Interconnection) and TCP (Transmission Control Protocol) layered models to examine the nature and roles of protocols and services at the application, network, data link, and physical layers. This course prepares students for the current version of CompTIA's Network+ certification exam. *Note: This course was formerly CSCI C143.* 36 hours lecture/54 hours laboratory.

**IT C146** A 3.00 Units

**Introduction to Information Systems Security**

**C-ID: ITIS 160 Introduction to Information Systems Security**

Advisory: IT C101 and C142 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. *Note: This course was formerly CSCI C146.* 54 hours lecture.

**IT C248** A/CSU 3.00 Units

**System and Network Administration**

**C-ID ITIS 155 Systems and Network Administration**

Advisory: IT C101, IT 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. Note: This course was formerly CSCI C193. 45 hours lecture/27 hours laboratory.

It C251 A/UC/CSU 3.00 Units

Introduction to Programming Concepts and Methodologies

C-ID ITIS 130 Introduction to Programming Concepts and Methodologies
Advisory: IT 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. Note: This course was formerly CSCI C251. 36 hours lecture/54 hours laboratory.

IT C255 A/CSU 3.00 Units

Introduction to Cybersecurity: Ethical Hacking

C-ID: ITIS 164 Introduction to Cybersecurity: Ethical Hacking
Advisory: IT C142, IT C143, IT 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. Note: This course was formerly CSCI C190. 45 hours lecture/27 hours laboratory.

IT C259 A/CSU 3.00 Units

Introduction to Systems Analysis and Design

C-ID ITIS 140 Introduction to Systems Analysis and Design
Prerequisite: IT C101.
Advisory IT C143, IT 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. Note: This course was formerly CSCI C195. 45 hours lecture/27 hours laboratory.

IT C270 A/CSU 3.00 Units

Introduction to Database Design / Management

C-ID ITIS 180 Introduction to Database Management Systems
Advisory: IT C101, ENGL C070
Repeat Status: Not Repeatable

This course provides the students with an introduction to the core concepts in data and information management. It is centered around the core skills of identifying organizational information requirements, modeling them using conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying their structural characteristics with normalization techniques, and implementing and utilizing a relational database using an industrial-strength database management system. The course also covers basic database administration tasks and key concepts of data quality and data security. In addition to developing database applications, the course helps the students understand how large-scale packaged systems are highly dependent on the use of Database Management Systems (DBMSs), Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella. Note: This course was formerly CSCI C270. 36 hours lecture/54 hours laboratory.

KINS C101 A/UC/CSU 3.00 Units

Introduction to Kinesiology

C-ID: KIN 100 Introduction to Kinesiology
Advisory: ENGL C070
Repeat Status: Not Repeatable

This course examines the history and trends in physical education, kinesiology, fitness, and sport. Areas covered include an orientation to major subfields such as exercise physiology, biomechanics, motor learning, sport sociology, and exercise psychology. In addition lifelong understanding and development of the Kinesiology professional as integrated physiological, social, and psychological will be discussed. The course also explores available career opportunities and pathways in the areas of allied health, sport, fitness, physical therapy, teaching, and coaching. 54 hours lecture.
### LIBR C100 A/UC/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.

### PARA C190 A/CSU 3.00 Units

**Legal Ethics**

**Advisory:** PARA C101  
**Repeat Status:** Not Repeatable  

This course provides students with an understanding of complex concepts of ethics and professional responsibility that govern the legal profession, as well as a substantive analysis of the major principles that affect how the practice of law is regulated. 54 hours lecture.

### SOCI C131 A/UC/CSU 3.00 Units

**Sociology of Sex, Gender, and Sexuality**  
**C-ID:** SOCI 140 Introduction to Gender  

**Advisory:** ENGL C070  
**Repeat Status:** Not repeatable  

This course is an examination of sex, gender, and sexuality in the modern world, particularly in the United States, and includes historical, cross-cultural, psychological, sociological, and political aspects. The focus of this course is analysis and discussion of sex and gender relations in the home, family, and the work place, politics, law, the mass media, and health care systems. 54 hours lecture.

### SPAN C180 A/UC/CSU 4.00 Units

**Spanish for Native Speakers**

**Advisory:** SPAN C102  
**Repeat Status:** Not repeatable  

This course is designed for native Spanish speakers, who already speak, read and write the language but wish to develop their fluency further through vocabulary building, spelling and accentuation rules, cognates, grammatical structures and composition. Cultural topics will also be in order for students to have a deeper understanding and awareness of their cultural heritage. This course is taught in Spanish. 72 hours lecture.