

of the major courses to be taken for a grade. Please consult a counselor and <http://www.assist.org> to determine any limitations on Pass/No pass grading in major preparation courses.

**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.

This program prepares students for careers in Child Development, Early Childhood Education. Transfer preparation for such fields as child development, elementary education, education.

**Program Learning Outcomes**

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

- Understand, observe, analyze development from a theoretical perspective: including the realms of physical, socio-emotional, and cognitive development; from conception through adolescence.
- Develop curriculum appropriate to the individual developmental needs of children from infancy through school-age and across a variety of categories; aesthetic, affective, cognitive, language, physical, and social.
- Demonstrate classroom management skills; working with both small and large groups of children.
- Demonstrate an understanding of the health, safety, and nutrition requirements of programs and children from infancy through school-age.
- Analyze assessment techniques commonly used in the field of Child Development.
- Assess and practice a variety of program models.
- Address diversity issues, including special needs, with children, families, and programs in a constructive way.
- Take a leadership role in both the profession of Child Development and the in the community through an understanding of advocacy.

**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

Complete one of the following general education patterns:

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

**Emergency Medical Technician Job Skills Certificate**

The Emergency Medical Technician job certificate (7 units) is designed to provide career pathways into Emergency Medical Services through pre-hospital and clinical education from basic body systems to the intricate and often changing emergent medical care provided to the sick and injured. Successful completion of this job certificate provides a wide range of components for those interested in entering the job market directly or progressing to Paramedic, nursing or moving into pre-medicine to become a Physician Assistant or Medical Doctor.

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

**Program Learning Outcomes**

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

- Identify the correct sequence of assessments and treatments for patients experiencing cardiopulmonary arrest.
- Identify the etiology, pathophysiology and signs and symptoms of disorders of all body systems.
- Identify critical medical patient conditions using standardized medical patient assessments.
- Identify critical traumatic patient conditions using standardized trauma patient assessments.
- Demonstrate leadership during the management of

critical patient conditions.

- Demonstrate the ability to utilize resources to resolve medical and trauma patient conditions.

**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:

EMTC C070	CPR for the Healthcare Provider.....	0.5 Units
EMTC C105	Emergency Medical Technician.....	6.5

## Engineering Associate in Science Degree

The Engineering Associate in Science Degree (60 units total, 33 units in the major) is designed to lay the foundation in mathematics and physics needed for transfer to a broad range of engineering programs, while providing flexibility to tailor additional course of study to a particular 4-year degree program. Students will apply the scientific method to physics and engineering problems, as well as analyse and use basic engineering problem solving methods. See a counselor and consult <http://www.assist.org/> for the complete list of courses required for your engineering field and university—the requirements typically total many more than 33 units and the general education areas are often modified.

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. If you plan to transfer, consult a counselor and <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.

Your transfer institution may require some of the courses to be taken for a grade. Please consult a counselor and <http://www.assist.org/> to determine any limitations on Pass/No Pass grading in major preparation courses.

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

- Demonstrate math and physics preparation for upper division Engineering courses.
- Apply the scientific method to physics and engineering problems.
- Analyze and use basic engineering problem solving methods required in various engineering disciplines.
- Perform hands-on laboratory and/or field experiments of all Engineering classes safely.

**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:

ENGR C110	Introduction to Engineering.....	4 Units
MATH C151	Analytic Geometry and Calculus I.....	5
MATH C152	Analytic Geometry and Calculus II.....	5
PHYS C111	Mechanics.....	5
PHYS C113	Electricity and Magnetism .....	5

Select at least 9 units from the following courses:

CHEM C111	General Inorganic Chemistry I .....	5 Units
CSCI C265	Introductory C++ Programming .....	3
ENGR C120	Introduction to Materials Science.....	4
ENGR C185	Digital Logic and Design.....	4
ENGR C210	Engineering Mechanics: Statics .....	3
ENGR C230	Engineering Circuit Analysis.....	4
MATH C251	Analytic Geometry and Calculus III .....	5
MATH C255	Ordinary Differential Equations .....	4
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