Sacramento State University
Electrical & Electronic Engineering

Accelerated College Entrance (ACE) courses

ENGR 1A. Fundamentals of Engineering. Problem solving skills needed in all areas of engineering offered at Sacramento State. Exposure to the different areas of engineering, and understanding of the relationship between them. Students will work in teams and complete hands-on engineering laboratory experiments and projects. Development of effective communication skills by presenting periodic oral and written reports. Computers will be used throughout. Lecture two hours, laboratory three hours. Note: Not for degree credit. Prerequisite: Algebra and trigonometry or instructor permission. Graded: Credit / No Credit. Units: 3.0.

ENGR 2. Robotics Explorations. Introduction to robotics. History of robotics, recent advances in the field, common devices such as sensors and actuators. Use of modular robotic kits. Students will be assigned competition based projects. Prerequisite: Algebra and Trigonometry. Graded: Graded Student. Units: 3.0.

ENGR 3. Future Technological City. Introduction to technological evolution of future concepts in materials, robotics, transportation, and energy systems. Students will design individual technological aspects of a future city, culminating in a team project competition where the students design and model a future technological city. Graded: Credit / No Credit. Units: 3.0.

Contact Information

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Accelerated College Entrance (ACE) Program www.educ.csus.edu/Projects/ace/eee.htm

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