

FIRE PROTECTION ENGINEERING APPLICATIONS GRADUATE CERTIFICATE

Offered at: San Luis Obispo Campus

<https://fpe.calpoly.edu/>

The courses offered in the Fire Protection Engineering Applications graduate certificate program will prepare students for a specialized career in fire protection engineering. Students completing the certificate program will be prepared for careers in:

- Consulting/Design Engineering Firms
- Fire Equipment and Systems Manufacturers
- Hospitals and Health Care Facilities
- Insurance Industry
- Research and Testing Laboratories
- Fire Departments
- Government

Requirements for Admission

Students apply via Cal State Apply (<https://www.calstate.edu/apply/>) and must submit a transcript. In addition, applicants must submit a personal statement describing their interest in fire protection engineering. They also need to submit a resume and request three letters of recommendation.

International Students must meet all the standard eligibility criteria and demonstrate proficiency in English (English Proficiency Exam Requirements (<https://www.calpoly.edu/admissions/international-student/selection-criteria/english-exam-requirements/>))

Prerequisites: Admission to a graduate certificate program requires a bachelor's degree from an accredited institution with a major in a relevant field of study.

Minimum GPA: An undergraduate grade point average of 3.0 is required. On occasion, where other credentials are exceptionally strong, a GPA in the 2.5-3.0 range may be accepted.

Application due date: Applicants are accepted for Fall and Spring semester enrollment. Please see Graduate Student Dates and Deadlines (<https://www.calpoly.edu/admissions/graduate-student/dates-and-deadlines/>) for application deadlines.

Program Learning Objectives

1. Identify relevant fire safety codes, standards and regulations, comprehend the fire safety performance objectives and criteria associated with these documents, and apply these fire safety objectives and criteria to a broad range of applications.
2. Understand how people interact with fire conditions in buildings and calculate evacuation times through the application of fundamental principles of people movement and the use of state-of-the-art computer-based evacuation models.
3. Design fire detection and alarm systems, fire suppression systems, structural fire protection systems, and egress systems to achieve specified performance objectives.

Code	Title	Units
REQUIRED COURSES		
FPE 5521	Fire Detection, Alarm and Egress Systems	4
FPE 5523	Fire Suppression Systems	4
FPE 5524	Structural Fire Protection	3
Total Units		11