Cal Poly now offers two graduate certificates in FPE that provide students with the knowledge, skills and tools needed to solve FPE problems and develop fire safety design solutions in a variety of professional settings.

Fire Protection Engineering Science
- Apply concepts associated with the thermal sciences, to the analysis of fire protection engineering problems.
- Analyze the flammability characteristics of different materials and evaluate the fire hazards associated with different materials in a range of settings.
- Analyze the dynamics of fires in and around buildings and other structures through the application of fundamental principles and the use of state-of-the-art computer-based fire simulation models.
- Curriculum: FPE 501, 502, 503, 504

Fire Protection Engineering Applications
- Identify relevant fire safety codes, standards and regulations, comprehend the fire safety performance objectives and apply these fire safety objectives and criteria to a broad range of applications.
- Understand how people interact with fire conditions in buildings and calculate evacuation times through the use of state-of-the-art computer-based evacuation models.
- Design fire detection and alarm systems, fire suppression systems, structural fire protection systems, and egress systems to achieve specified performance objectives.
- Curriculum: FPE 521, 522, 523, 524

Faculty
The FPE instructors include Cal Poly faculty members and working FPE professionals. Many courses are taught by teams of instructors to provide both theoretical and practical perspectives on the subject matter. A number of working Fire Protection Engineers also serve as professional mentors for students. Please visit fpe.calpoly.edu for a list of current instructors and their credentials.

FPE Program Support
Institutional and individual donations help support the FPE programs at Cal Poly. Please visit the website fpe.calpoly.edu/giving for more information on how you or your corporation can support the FPE program at Cal Poly.

Contact Information
fpe@calpoly.edu
www.fpe.calpoly.edu
Cal Poly offers a Master of Science Degree and two Graduate Certificate Programs in Fire Protection Engineering (FPE). These are the only FPE graduate programs offered on the West Coast.

The FPE program at Cal Poly builds on the learn-by-doing philosophy that has ranked Cal Poly as the best public master’s level university in the west by U.S. News and World Report for 19 years in a row. The FPE program is designed to provide students the knowledge as well as practical skills so that they can enter the FPE workforce and be productive immediately.

Masters Curriculum
The FPE MS degree program requires the successful completion of 45 units, including ten 4-unit courses and one 5-unit culminating project experience. Students must present and defend their culminating projects to a review committee.

The following ten courses are currently part of the FPE curriculum:
- FPE 501 Fundamental Thermal Sciences
- FPE 502 Fire Dynamics
- FPE 503 Flammability Assessment Methods
- FPE 504 Fire Modeling
- FPE 521 Egress Analysis & Design
- FPE 522 Fire Detection & Alarm Systems
- FPE 523 Water-based Fire Suppression
- FPE 524 Structural Fire Protection
- FPE 551 Fire Safety Regulation / Management
- FPE 552 Smoke Management / Special Hazards

Admission Requirements
The admission standards for the FPE programs are similar to those for other MS graduate programs within the College of Engineering at Cal Poly.

The general requirements for admission to the FPE graduate programs are:

1. An earned bachelor’s degree appropriate for the FPE programs in engineering or the applied sciences are most suitable.
2. A minimum grade point average (GPA) of 3.0 in the last 90 quarter units (60 semester units) of coursework. If other credentials are exceptionally strong, a GPA in the 2.5–3.0 range may be accepted.

Please contact Professor Christopher Pascual, (Email: cpascual@calpoly.edu), the Graduate Coordinator for the FPE program, with any additional questions about admission to these graduate programs.

How to Apply
The application process is handled completely online through the CSU mentor system. Please visit csumentor.edu for more information on the application process and to apply to the FPE program.

FPE Program Costs
The Fire Protection Engineering Program at Cal Poly is a self-supporting program; no state resources are used to operate the program. The current fees for the FPE program have been established at $500 per credit. Thus, each 4-credit course will cost $2,000 and the full 45-credit MS degree program will cost $22,500 to complete. Each graduate certificate will cost $8,000 to complete.

Fees are subject to change. Miscellaneous additional fees may apply and students are responsible for acquiring required textbooks and other materials.

On-campus or Online
The FPE program at Cal Poly is offered both on-campus and online with the same high quality. Students continuing directly from their undergraduate studies are encouraged to enroll full-time in the on-campus program. Working professionals seeking to enhance their skills and qualifications in FPE can enroll part-time in the online distance program. Distance students take the same courses as on-campus students, but typically at a slower pace.

For more information:
www.fpe.calpoly.edu