

**Technology Department Undergraduate Program Outcomes
College of Engineering, Computer Science and Technology
California State University, Los Angeles**

Fire Protection Administration and Technology 1
Engineering Technology 2
Aviation Administration..... 2

Fire Protection Administration and Technology

Program Learning Outcomes

1. To produce graduates who will demonstrate tactical, technical, and management knowledge as fire protection professionals.
2. To produce graduates who can apply the skills necessary to collaborate, organize, and lead.
3. To produce graduates who will be prepared to meet the challenges of our ever-changing technological world.

Student Learning Outcomes

1. A knowledge of concepts and practices of fire protection services and management.
2. An ability to evaluate a system or process as well as collect and interpret data to provide a solution.
3. A knowledge of fire protection systems and the integration of technologies.
4. An ability to work individually and in teams to demonstrate initiative, supervision, and leadership skills.
5. A demonstrated ability to understand and interpret political, social, professional, ethical, and legal responsibilities and a focus on quality service to clients.
6. An understanding of emerging technologies and management practices to improve expertise now and through lifelong self-development.
7. An ability to communicate effectively orally, and in writing, to diverse audiences, including collaboration as members of multi-disciplinary project teams.

Engineering Technology

Program Educational Objectives

1. Be employed in Industry utilizing design, manufacturing, sustainable energy, research, and management skills.
2. Have secured or pursued Leadership positions and/or entrepreneurial pathways.
3. Demonstrate a commitment to lifelong learning to further their professional practice.

Student outcomes

1. An ability to apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, and technology to solve broadly defined engineering problems.
2. An ability to design systems, components, or processes meeting specified needs for broadly defined engineering problems appropriate to the discipline.
3. An ability to apply written, oral, and graphical communication in broadly defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results to improve processes.
5. An ability to function effectively as a member as well as a leader on technical teams.

Aviation Administration

Program Learning Outcomes

1. To produce graduates who can apply skills necessary to collaborate, organize, and lead
2. To produce graduates who will be prepared to meet the challenges of our ever-challenging aviation and technological world
3. To produce graduates who will demonstrate management, technical, and organizational knowledge as aviation administration professionals

Student Learning Outcomes

1. An ability to demonstrate knowledge of the Federal Aviation Regulations, Transportation Security regulations, airport planning, finance management, and sustainability that are related to aviation administration
2. An ability to apply knowledge, techniques, and procedures to manage airports, airlines, general aviation organizations, and engage in other multidisciplinary environments as needed
3. An ability to communicate effectively in both technical and non-technical environments, whether in an aviation or other public community, using both oral and written communication skills
4. An ability to apply knowledge, techniques, and procedures to analyze data, identify and solve industry relevant problems and issues related to the discipline
5. An ability to demonstrate an understanding of the ethical and legal responsibilities of being an aviation professional and a commitment to community engagement