

Design the Future | Aerospace Engineering Department

Ali R. Ahmadi, Ph.D., Chair 909.869.2470 aro@cpp.edu

The Aerospace Engineering Department trains students in aerodynamics, structures, propulsion, flight mechanics and controls, astronautics, and systems engineering. The department has nine laboratories, including a Subsonic Wind Tunnel, a Supersonic Wind Tunnel, and an Uninhabited Aerial Vehicle (UAV) Laboratory. The graduates will be prepared to design and develop aircraft, spacecraft and rockets, as well as high-speed land vehicles and ocean vessels. Degrees offered are:

- Bachelor of Science in Aerospace Engineering (BSAE)
- Master of Science in Engineering with Emphasis in Aerospace Engineering (MSEAE)

Improve Quality of Life | Chemical & Materials Engineering Department

Viluppanur A. Ravi, Ph.D., Chair 909.869.2626 cme@cpp.edu

The Chemical & Materials Engineering Department prepares engineers for a career in the development and application of processes that involve chemical and physical materials transformations. This includes work related to the design, construction and operation of plants for fuels, plastics, fibers, foods and pharmaceuticals. Because of their strong background in chemistry and materials processing, many chemical engineers also work for industry as environmental engineers. A materials engineering minor emphasizes ceramics, polymers, metals and alloys. Degrees offered are:

- Bachelor of Science in Chemical Engineering (BSChE)
- Master of Science in Engineering with Emphasis in Materials (MSEMTE)

Create Ways to Protect the Environment | Civil Engineering Department

Xudong Jia, Ph.D., Chair 909.869.2488 ce@cpp.edu

Civil engineering graduates design, build, operate, and maintain the structures and infrastructure that form our modern society. These facilities include buildings, bridges, highways, water supply systems, environmental protection systems, ports, railroads, dams, airports, and many others. Degrees offered are:

- Bachelor of Science in Civil Engineering (BSCE) degree with three options: General, Environmental, and Geospatial
- Bachelor of Science in Construction Engineering Technology (BSCET)
- Master of Science in Civil Engineering (MSCE) three emphasis options: Geotechnical, Structural, and Transportation

Design Cutting-Edge Technology | Electrical & Computer Engineering Department

Halima El Naga, Ph.D., Chair 909.869.2511 ece@cpp.edu

The electrical engineering program trains undergraduate students in the fundamental principles of electrical engineering including communications, controls, instrumentation, electronics, illumination and power. The computer engineering program trains undergraduate students in the fundamental electrical engineering principles, design of computer hardware and software, and embedded systems. The electrical engineering graduate program currently offers options in communication systems, computer systems, and control and robotic systems. Degrees offered are:

- Bachelor of Science in Electrical Engineering (BSEE)
- Bachelor of Science in Computer Engineering (BSCpE)
- Master of Science in Electrical Engineering (MSEE)

Make a Difference in the World | Electromechanical Engineering Technology Department

Massoud Moussavi, Ph.D., Chair 909.869.2492 emet@cpp.edu

Electromechanical engineering technology graduates are applications-oriented members of the engineering team. They have a detailed background in a particular technical specialization and usually work directly in engineering project execution and management. Degrees offered are:

- Bachelor of Science in Electronic Systems Engineering Technology (BSESET)
- Bachelor of Science in Electromechanical Systems Engineering Technology (BSEMSET) with an Emphasis in Mechanical

Create Solutions for a Global Workplace | Industrial & Manufacturing Engineering Department

Kamran Abedini, Ph.D., Chair 909.869.2555 ime@cpp.edu

Industrial engineering program prepares students as problem solvers who can tackle the complex interactions associated with productivity of workers, capital, and facilities. They design and implement quality improvement methods. The manufacturing engineering program is structured to prepare students as experts in the design and analysis of complex computer-controlled manufacturing and automation systems. Degrees offered are:

- Bachelor of Science in Industrial Engineering (BSIE)
- Bachelor of Science in Manufacturing Engineering (BSMFE)
- Master of Science in Systems Engineering (MSSE)
- Master of Science in Engineering Management (MSEM)

Build Technology for a Better Life | Mechanical Engineering Department

Angela C. Shih, Ph.D., Chair 909.869.2575 me@cpp.edu

Mechanical engineering is the most general branch of engineering. The mechanical engineering program permits students to explore different fields, specializing in one or more of them as they find their true interests. Mechanical engineers deal with thermal fluids sciences, mechanics, machine design, robotics, instrumentation and control systems, energy systems and more. Degrees offered are:

- Bachelor of Science in Mechanical Engineering (BSME)
- Master of Science in Mechanical Engineering (MSME)