The Lyles College of Engineering

Engineering East, Room 124, 559.278.2500
Michael Jenkins, *Dean*

The Mission of the College

The mission of the Lyles College of Engineering is to provide high-quality academic programs in engineering and technology management that support the infrastructure and growth of the Central California region. With regional industry partners, these programs are linked through cooperative education opportunities, internships, projects, and course assignments.

Academic programs within the college provide support and assistive programs that enhance student comprehension and learning. Through our Pathways: Lyles College of Engineering Student Services, students can access professional development activities, tutorial services, student clubs and professional societies, and campus referrals for assistance and more.

Civil, Geomatics, Electrical, Computer, and Mechanical Engineering are nationally accredited through the Accreditation Board for Engineering and Technology (ABET) at the same standards applied to all other engineering schools and colleges nationwide. Construction Management is accredited by the American Council for Construction Education (ACCE).

The Lyles College of Engineering offers bachelor's degree programs in Civil, Computer, Electrical, Geomatics, and Mechanical Engineering, as well as in Construction Management. The college offers master's degree programs in Civil Engineering and Engineering with options in Electrical and Mechanical Engineering. The college also offers an accelerated master's program that allows qualified undergraduate students to begin graduate studies at the start of the first semester of their senior year. For more information on graduate programs, refer to the section on Engineering Graduate programs found on pages 320-321.

Engineering (ENGR)

ENGR 1T. Topics in Engineering (1-4; max total 12 if no topic repeated)
Selected topics in engineering that serve as an introduction to the field of engineering and technology.

ENGR 11. Engineering Applications (3)
Open to qualified high school juniors and seniors only. Selected topics in engineering that serve as an introduction to the field of engineering and technology. (Formerly ENGR 1T)

ENGR 101. Applied Engineering Analysis I (3)
Covers selected topics in mathematical analysis, with emphasis on applications to engineering problems. Ordinary differential equations, the LaPlace transformation, matrices and determinants, Fourier series and integrals, partial differential equations.

ENGR 102. Applied Engineering Analysis II (3)
Covers selected topics in mathematical analysis with emphasis on applications to engineering problems. Vector Analysis, line and surface integrals, complex variables and integrals, conformal mapping, series, residues, potential theory, and special functions.

ENGR 105W. Engineering and Entrepreneurship (3)
Prerequisites: satisfactory completion of ENGL 5B or 10, junior standing. Preparation of resumes, letters of transmittal, technical reports, research proposals, progress reports, business plans, and oral presentations. Covers using effective writing techniques in the process of commercializing a technology/process. Meets upper-division writing skills requirement for graduation. (Formerly ME 191T)

The Lyles College of Engineering includes the departments of Civil and Geomatics Engineering, Electrical and Computer Engineering, and Mechanical and Industrial Engineering, as well as the Construction Management program.