Engineering is a profession in which knowledge of the mathematical and natural sciences is applied to develop ways to use the materials and forces of nature economically for the benefit of humanity.

C.O.M.
Suggested Transfer Preparation

ENGG 110, 220, 235, 245
MATH 123 & 124 & 223
PHYS 207A & 207B
ENGL 150, 151 OR 155

Transfer students are strongly advised to meet with a Counselor and complete as many preparatory courses as possible before transferring. Please refer to the following links for articulation agreement updates, revisions, and additional information:

www.assist.org
UCTransfer.org

COLLEGE OF MARIN

Transfer & Career Center
835 College Avenue
Kentfield, CA 94904
(415) 485-9671

Transfer/Counseling Advisory Committee:
Theodora Fung, Bruce Furuya, Letta Hlavacheck, Bessie Ng-Jung, Alexandra Magallanes Rivera, Jim Sweeney, Karen Robinson, Emy Bagtas

FOR MORE EXTENSIVE INFORMATION ON CAREER OPPORTUNITIES, GO TO TRANSFER & CAREER CENTER AND CREATE YOUR EUREKA ACCOUNT.

CAREER OPPORTUNITIES

Aerospace Engineers
Agricultural Engineers
Architects
Automotive Engineers
Biomedical Engineers
Blasters
Building Contractors
Ceramic Engineers
Chemical Engineers
Civil Engineers
Computer Engineers
Computer Maintenance Technicians
Consultants
Corrosion Engineers
Cryptanalysts
Design Engineers
Drilling Representatives
Electrical and Electronics Engineers
Electrical and Electronics Technicians
Electro-Optical Engineers
Emergency Managers
Naval Architects
Network Managers and Administrators
Nondestructive Testing Engineers
Rehabilitative Engineer
Risk Resolvers
Robotics Technicians
Sales Engineer
Scientific Programmers
Surveyors
Transportation Engineers

Engineering Technician
Engineering & Science Manager
Environmental Engineers
Estimators
Fiber-Optic Engineer & Technician
Free Agent
Health & Safety Inspector
Human Factors Engineer
Hydrologist
Industrial Engineer
Inventor
Manufacturing Engineer
Mechanical Engineer
Metallographic Technician
Metallurgical Engineer
Mining Engineer
Nuclear Technician
Operations Research Analyst
Personal Consultant
Petroleum Engineer
Production Planner
Production Superintendent
Quality Control Inspector
Quality Engineer
Risk Resolver
Robotics Technician
Safety Engineer
Sanitary Engineer
Soil Engineer
Systems Programmer

EXAMPLES OF EMPLOYERS

Utility Companies
Satellite Companies
Colleges & Universities
Research Firms
Construction Companies
Electronics Companies
Transportation Companies

Manufacturing Firms
Industrial Firms
Hospitals
Power Plants
Engineering Firms
Government
Engineering majors apply theories and principles of science and mathematics to research and develop economical solutions to technical problems. Engineering work is the link between perceived social needs and commercial applications. Most engineering programs involve a concentration of study in an engineering specialty, along with courses in both mathematics and science. Many programs include a design course, sometimes accompanied by a computer or laboratory class. Engineering majors will be taught to think in scientific and mathematical terms, have ability to study data, sort out important facts and solve problems, be a logical thinker, develop verbal and written communication skills including presentation and technical report writing. Helpful traits include intellectual curiosity, technical aptitude, perseverance, willingness to think, interest in solving problems, and a basic understanding of the economic and environmental context in which engineering is practiced.

Typical Coursework associated with the study of Engineering

California Universities offering Engineering Degrees

California State University:

Refer to the following link for locations, web addresses and general information: www.csumentor.edu

CSU - San Luis Obispo
Aeronautical Engineering BS, Aerospace Engineering BS/MS, Architectural Engineering BS/Minor, Bioresource and Agricultural Engineering BS, Civil and Environmental Engineering BS, Civil Engineering BS, Computer Engineering BS, Electrical Engineering BS/MS, Engineering Management MBA/MS, Engineering MS, Engineering, Blended BS/M, Environmental Engineering BS, General Engineering BS, Industrial Engineering BS/MS, Manufacturing Engineering BS, Materials Engineering BS, Mechanical Engineering BS/MS

CSU - Pomona
Aerospace Engineering BS, Chemical Engineering BS, Civil Engineering BS/MS, Computer Engineering BS, Electrical Engineering BS/MS

CSU - Maritime Academy
Mechanical Engineering BS

CSU - Chico
Civil Engineering BS, Computer Engineering BS/Minor, Electrical and Computer Engineering MS, Electrical Engineering BS/MS

CSU - Dominguez Hills
Engineering Management MS, Electrical Engineering (Physics) BS

CSU - East Bay
Computer Engineering (Computer Science) BS, Engineering BS, Engineering Management MS/Certificate, Quality Management

CSU - Fresno
Civil Engineering BS/MS, Computer Engineering BS, Electrical Engineering BS/MS, Geometries Engineering BS, Mechanical Engineering BS/MS

CSU - Fullerton
Civil Engineering BS, Computer Engineering BS, Electrical Engineering BS/MS, Environmental Science MS, Mechanical Engineering BS/MS

CSU - Long Beach
Aerospace Engineering BS/MS, Chemical Engineering BS, Civil Engineering BS, Computer Engineering BS, Construction Engineering Management BS, Electrical Engineering BS, Engineering and Industrial Applied Mathematics PhD, Engineering BS/MS, Engineering Management MS, Engineering Audio Engineering BS, Engineering: Theme Park Engineering BS, Environmental Engineering Minor Manufacturing Engineering BS, Mechanical Engineering BS/MS

CSU - Los Angeles
Civil Engineering BS, Electrical Engineering BS/MS, Engineering BS, Mechanical Engineering BS/MS

CSU - Northridge
Civil Engineering BS, Computer Engineering BS, Electrical Engineering BS/MS, Manufacturing Engineering MS, Mechanical Engineering BS/MS

CSU - Sacramento
Civil Engineering BS/MS, Computer Engineering BS/MS, Engineering Minor, Mechanical Engineering BS/MS

CSU - San Bernardino
Computer Engineering BS

CSU - San Diego
Aerospace Engineering BS/MS, Civil Engineering BS/MS/Engr, Computer Engineering BS/MS, Electrical Engineering BS/MS/M Engr, Engineering M Engr./Ph.D., Environmental Engineering BS, Mechanical Engineering BS/MS/M Engr

CSU - San Francisco
Civil Engineering BS/Minor, Computer Engineering BS/Minor, Electrical Engineering BS/Minor, Engineering MS, Mechanical Engineering BS/Minor

CSU - San Jose
Aerospace Engineering BS/MS, Chemical Engineering BS/MS, Civil Engineering BS/MS, Computer Engineering BS/MS, Electrical Engineering BS/MS, Engineering Management Minor, Engineering MS, General Engineering BS/MS, Human Factors/Ergonomics (Engineering) MS, Industrial and Systems Engineering BS, Materials Engineering BS/MS, Mechanical Engineering BS/MS, Minor, Mechanical Engineering BS/MS, Software Engineering BS/MS, Statistical Quality Engineering Minor

CSU - Sonoma
Engineering Science BS, Engineering Science MSCE

CSU - Stanislaus
Engineering BS

University of California:

Refer to the following link for locations, web addresses and general information: UCTransfer.org

UC - Berkeley
Applied Science and Technology MS/Ph.D, Bioengineering BS, Chemical Engineering BS, Chemical Engineering/Materials Science and Engineering BS, Chemical Engineering/Nuclear Engineering BS, Civil Engineering BS/MS, Civil Engineering BS/MS/Engr, Computational Engineering Science BS Electrical Engineering and Computer Science BS/MS, Electrical Engineering and Engineering Sciences MS/Engr, Engineering MS/Public Policy

UC - Davis
Aeronautical Science and Engineering BS, Biological Systems Engineering BS/MS, Biomedical Engineering PhD, Biomedical Engineering BS/MS, Chemical Engineering BS/Ph.D, Chemical Engineering/Materials Science and Engineering BS, Civil and Environmental Engineering MS/Engr/D Engr/Ph.D, Civil Engineering BS, Computational Applied Science BS/Minor, Electrical and Computer Engineering BS/Ph.D.

UC - Irvine
Aerospace Engineering BS, Biomedical Engineering BS/Minor, Chemical Engineering BS, Civil Engineering BS, Computer Engineering BS, Computer Engineering BS/MS, Environmental Engineering BS, Materials Science and Engineering BS/Minor , Mechanical and Aerospace Engineering MS/Ph.D, Mechanical Engineering BS

UC - Los Angeles
Aerospace Engineering BS/MS/Ph.D, Bioengineering BS, Chemical Engineering BS/MS/Ph.D, Civil Engineering BS, Computer Science and Engineering BS, Mechanical Engineering MS, Space Science and Engineering Minor

UC - Merced
Bioengineering BS, Computer Science and Engineering BS, Environmental Engineering BS, Mechanical Engineering BS

UC - Riverside
Bioengineering BS/MS/Ph.D, Chemical and Environmental Engineering BS/MS/Ph.D, Computer Engineering BS, Electrical Engineering BS/MS/Ph.D, Environmental Engineering BS, Materials Engineering BS/MS/Ph.D, Mechanical Engineering BS/MS/Ph.D

UC - San Diego
Aerospace Engineering BS/MS/Ph.D, Bioengineering BS/MS, Chemical Engineering BS/MS/Ph.D, Computer Engineering BS/MS/Ph.D, Engineering BS/MS/Ph.D, Manufacturing Engineering BS/MS/Ph.D, Mechanical Engineering BS/MS/Ph.D

UC - San Francisco
Bioengineering PhD

UC - Santa Barbara
Chemical Engineering BS/MS/Ph.D, Computer Engineering BS, Electrical and Computer Engineering BS/MS/Ph.D, Materials Engineering MS/Ph.D

UC - Santa Cruz
3/2 Dual-Degree Engineering Program BA/BS, Computer Engineering BS/Minor/MS/Ph.D, Electrical Engineering BS/PhD, Bioengineering BS

Private Universities:

Refer to the following link for Independent Colleges and Universities: AICCU.edu

Pepperdine University
Pitzer College
Santa Clara University
University of the Pacific
University of San Diego
Whittier College
Whittier College

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