



COLLEGE OF MARIN

ENGINEERING

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 Hlavachek, Bessie Ng-Jung
Alexandra Magallanes Rivera, Jim Sweeney, Karen Robinson,
Emy Bagtas

CAREER OPPORTUNITIES

Aerospace Engineers	Engineering Technician
Agricultural Engineers	Engineering & Science Manager
Architects	Environmental Engineers
Automotive Engineers	Estimators
Biomedical Engineers	Fiber-Optic Engineer & Technician
Blasters	Free Agent
Building Contractors	Health & Safety Inspector
Ceramic Engineers	Human Factors Engineer
Chemical Engineers	Hydrologist
Civil Engineers	Industrial Engineer
Computer Engineers	Inventor
Computer Maintenance Technicians	Manufacturing Engineer
Consultants	Mechanical Engineer
Corrosion Engineers	Metallographic Technician
Cryptanalysts	Metallurgical Engineer
Design Engineers	Mining Engineer
Drilling Representatives	Nuclear Technician
Electrical and Electronics Engineers	Operations Research Analyst
Electrical and Electronics Technicians	Personal Consultant
Electro-Optical Engineers	Petroleum Engineer
Emergency Managers	Production Planner
Naval Architects	Production Superintendent
Network Managers and Administrators	Quality Control Inspector
Nondestructive Testing Engineers	Quality Engineer
Rehabilitative Engineer	Risk Resolver
Risk Resolvers	Robotics Technician
Robotics Technicians	Safety Engineer
Sales Engineer	Sanitary Engineer
Scientific Programmers	Soil Engineer
Surveyors	Systems Programmer
Transportation Engineers	

For more extensive information on career opportunities, go the Transfer & Career Center and create your EUREKA account

EXAMPLES OF EMPLOYERS

Utility Companies	Manufacturing Firms
Satellite Companies	Industrial Firms
Colleges & Universities	Hospitals
Research Firms	Power Plants
Construction Companies	Engineering Firms
Electronics Companies	Government
Transportation Companies	

Typical Coursework associated with the study of Engineering

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. Most 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.

California Universities offering Engineering Degrees

California State University:

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

CPSU - San Luis Obispo	Aeronautical Engineering BS, Aerospace Engineering BS/MS, Architectural Engineering BS/Minor, Bioresource and Agricultural Engineering BS, Civil and Environmental Engineering MS, 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
CSPU - Pomona	Aerospace Engineering BS, Chemical Engineering BS, Civil Engineering BS/MS, Computer Engineering BS, Electrical Engineering BS/MS, Energy Engineering Minor, Engineering Management MS, Engineering MS, Engineering Technology BS, Illumination Engineering Minor, Industrial Engineering BS, Manufacturing Engineering BS, Materials Engineering Minor, Mechanical Engineering BS/MS, Ocean Engineering Minor
CSU - Maritime Academy	Mechanical Engineering BS
CSU - Chico	Civil Engineering BS, Computer Engineering BS/Minor, Electrical and Computer Engineering MS, Electrical Engineering BS/MS, Manufacturing Engineering BS, Mechanical Engineering BS
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, Geometrics Engineering BS, Mechanical Engineering BS/MS
CSU - Fullerton	Civil Engineering BS/MS, Computer Engineering BS, Electrical Engineering BS/MS, Engineering 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 Ph.D., 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/MS, Electrical Engineering BS/MS, Engineering BS, Mechanical Engineering BS/MS
CSU - Northridge	Civil Engineering BS, Computer Engineering BS, Electrical Engineering BS/MS, Engineering Management MS, Engineering MS, Manufacturing Systems Engineering BS, Materials 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/M Engr., Computer Engineering BS, 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/MS, Materials 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/MS/Ph.D., Chemical Engineering/Materials Science and Engineering BS, Chemical Engineering/Nuclear Engineering BS, Civil Engineering BS/MS/M Engr./Ph.D., Computational Engineering Science BS, Electrical Engineering and Computer Science BS/MS/Ph.D., Engineering and Engineering Science MS/M Engr./Ph.D., Engineering MS/Public Policy MPP (Concurrent degrees), Environmental Engineering Science B, Industrial Engineering and Operations Research BS/MS/M Engr./Ph.D./D Engr., Manufacturing Engineering BS, Materials Science and Engineering BS/MS/M Engr./Ph.D., Mechanical Engineering BS/MS/M Engr./Ph.D., Nuclear Engineering BS/Minor/MS/M Engr./Ph.D./D Engr.
UC - Davis	Aeronautical Science and Engineering BS, Biological Systems Engineering BS/MS/D Engr./Ph.D., Biomedical Engineering BS/MS/Ph.D., Chemical Engineering BS/MS/Ph.D., Chemical Engineering/Materials Science and Engineering BS, Civil and Environmental Engineering MS/M Engr./D Engr./Ph.D., Civil Engineering BS, Computational Applied Science BS/Minor, Electrical and Computer Engineering BS/MS/Ph.D., Materials Science and Engineering BS/MS/M Engr./Ph.D., Mechanical and Aeronautical Engineering MS/M Engr./D Engr./Certificate (Graduate) Optical Science and Engineering BS
UC - Irvine	Aerospace Engineering BS, Biomedical Engineering BS/Minor/MS/Ph.D., Chemical Engineering BS, Civil Engineering BS/MS/Ph.D., Computer Engineering BS, Electrical and Computer Engineering's/MS/Ph.D., Engineering BS/MS/Ph.D., Environmental Engineering BS, Materials Science and Engineering BS/Minor/MS/Ph.D., 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/MS/Ph.D., Computer Science and Engineering BS, Electrical Engineering BS/MS/Ph.D., Manufacturing Engineering MS, Materials Engineering BS/MS/Ph.D., Mechanical Engineering BS/MS/Ph.D.
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 and Engineering Science BS, Mechanical Engineering BS/MS/Ph.D.
UC - San Diego	Aerospace Engineering BS/MS/Ph.D., Bioengineering BS/MS/M Engr./Ph.D., Chemical Engineering BS/MS/Ph.D., Computer Engineering BS/Minor/MS/Ph.D., Electrical Engineering BS/MS (Joint with SDSU), Engineering Physics BS/Minor/MS/Ph.D., Engineering Sciences BS/MS/Ph.D., Environmental Engineering BS, Materials Science MS/Ph.D., Mechanical Engineering BS/MS/Ph.D., Space Science and Engineering Minor, Structural Engineering BS/MS/Ph.D.
UC - San Francisco	Bioengineering Ph.D.
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., Mechanical Engineering BS/MS/Ph.D.
UC - Santa Cruz	3/2 Dual-Degree Engineering Program BA/BS, Computer Engineering BS/Minor/MS/Ph.D., Electrical Engineering BS/MS/Ph.D., Bioengineering BS

Private Universities:

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

Pepperdine University	Pitzer College	Santa Clara University	Stanford University
University of the Pacific	University of San Diego	University of San Francisco	University of Southern California
Westmore College	Whittier College		