

UNIVERSITY OF THE PACIFIC ENGINEERING MANAGEMENT

The Bachelor of Science program in Engineering Management consists of a minimum of 120 units of academic work and (except for exempt foreign students) a minimum of 32 units of Cooperative Education credit. This program is designed to provide flexibility to students. Students take a full year of upper division engineering courses and then specialize in the area of their choice by choosing engineering electives.

You may choose to complete all the requirements for the degree in 4 years to 5 years depending on your high school preparedness, desired semester workload and motivation. Contact the EMGT department for further details.

COOPERATIVE EDUCATION PROGRAM

Practical work experience (cooperative education or CO-OP) is an integral part of engineering management education at University of the Pacific. All students who are U.S. citizens are required to complete 32 units of CO-OP, which entails a seven month work period. Experience gained during CO-OP gives Pacific engineering management graduates a significant advantage when they seek employment after graduation.

ENGINEERING MANAGEMENT OBJECTIVES

The Engineering Management Program at University of the Pacific seeks to graduate engineers ready to enter professional practice or pursue graduate level studies. The objectives of the Engineering Management Program are to graduate engineers that:

- + Are ready to enter professional practice or pursue graduate level studies
- + Use engineering knowledge as a base for solving problems requiring business and analytical skills
- + Are able to work in a wide array of different industries, positions and projects
- + Seek continual professional development and lifelong learning

ENGINEERING MANAGEMENT CAREER PATHS:

- + Construction Management
- + Manufacturing Engineering
- + Environmental Studies
- + Biotech Industries
- + Technical Marketing
- + Global Engineering
- + Product Development

For more information, contact:

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EMGT

BACHELOR OF SCIENCE IN ENGINEERING MANAGEMENT - PROGRAM CURRICULUM

UNIT BREAKDOWN

MATH/SCIENCE- 33 UNITS
GE COURSES- 24 UNITS
ENGINEERING SCIENCE- 13 UNITS
ENGINEERING MANAGEMENT- 31 UNITS
ENGINEERING DISCIPLINE- 27 UNITS

MATHEMATICS & BASIC SCIENCE

MATH 051 [4] CALCULUS I
MATH 053 [4] CALCULUS II
MATH 055 [4] CALCULUS III
MATH 057 [4] DIFFERENTIAL EQUATIONS
MATH 039 [4] PROBABILITY WITH APPLICATIONS TO STATISTICS
PHYS 053 [5] PHYSICS I
MATH/SCIENCE ELECTIVE [6-8]

GENERAL EDUCATION

PACS 001 [4] PACIFIC SEMINAR 1
PACS 002 [4] PACIFIC SEMINAR 2
PACS 003 [3] PACIFIC SEMINAR 3
ECON 053 [4] MICROECONOMICS
GEN. ED. [3-4] (I-A, I-B, OR I-C)
GEN. ED. [3-4] (II-A OR II-C)
ENGR 030 [3] ENGR., ETHICS & SOCIETY (II-B)

ENGINEERING SCIENCE AND ENGINEERING MANAGEMENT CORE:

ENGR 010 [1] DEAN'S SEMINAR
ENGR 019 [3] COMPUTER APPLICATIONS IN ENGINEERING
ENGR 020 [3] ENGINEERING MECHANICS (STATICS)
ENGR 025 [1] PROFESSIONAL PRACTICE SEMINAR
ENGINEERING SCIENCE ELECTIVES [CHOOSE TWO COURSES]
BUSI 031 [4] FINANCIAL ACCOUNTING
BUSI/EMGT ELECTIVES [CHOOSE TWO COURSES]
EMGT 142 [3] DESIGN AND INNOVATION
EMGT 142L [1] DESIGN AND INNOVATION LAB
EMGT 162 [3] INTRO TO DATA ANALYTICS FOR
ENGINEERS & COMP SCI
EMGT 170 [4] PROJECT DECISION MAKING
EMGT 174 [4] ENGINEERING PROJECT MANAGEMENT
EMGT 176 [4] SYSTEMS ENGINEERING MANAGEMENT
EMGT 195 [4] ENGINEERING MANAGEMENT SENIOR PROJECT

PROFESSIONAL PRACTICE (CO-OP)

ENGR 181-183 [1-32]

32 UNITS OF CO-OP ARE REQUIRED TO GRADUATE

CO-OP IS OPTIONAL FOR NON - U.S. CITIZENS.

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