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
Cooperative education (Co-op) is an integral part of the Pacific engineering program, and all Pacific students are required to have industrial experience before they graduate. Some students are able to pursue this work experience in Japan or Germany through an International Engineering Co-op Program.

CO-OP coordinators work with students to arrange relevant full-time, paid jobs with engineering employers. 32 units of CO-OP work experience are required to graduate, although students have the option of pursuing 32 units. (Non-U.S. citizens are exempt from the CO-OP requirements.) Students take 32 units of CO-OP work for a Fall or Spring semester plus one Summer semester. Students who take 50 units of CO-OP can work for different companies for a total of one year of work experience before they graduate.

CURRICULUM PLANNING
Students work with their academic advisers to develop curriculum plans in accordance with prerequisite requirements and course schedules. Students who successfully complete their coursework and complete 32 units of CO-OP can graduate in four years, and students who complete 50 units of CO-OP typically take five years. Summer courses may be desirable or necessary to reduce the course-load during some Fall or Spring semesters.

ENGINEERING MANAGEMENT CAREER PATH
+ Manufacturing
+ Environmental
+ Biotechnology
+ Construction
+ International
+ Product Innovation
+ Technical Marketing

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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
SCIENCE ELECTIVE [3-5] (SEE LIST BELOW)
DISCRETE MATH ELEC. [4] (SEE LIST BELOW)

ENGINEERING SCIENCE AND ENGINEERING MANAGEMENT CORE:
ENGR 010 [1] DEAN'S SEMINAR
ENGR 019 [3] COMPUTER APPLICATIONS IN ENGINEERING
ENGR 020 [3] ENGINEERING MECHANICS (STATISTICS)
ENGR 025 [1] PROFESSIONAL PRACTICE SEMINAR
ENGINEERING SCIENCE ELECTIVES [CHOOSE TWO COURSES]
BUSI 031 [4] FINANCIAL ACCOUNTING
BUSI 033 [4] MANAGERIAL ACCOUNTING
BUSI/EMGT ELECTIVES [CHOOSE THREE COURSES]
EMGT 170 [4] ENGINEERING ADMINISTRATION
EMGT 174 [4] ENGINEERING PROJECT MANAGEMENT
EMGT 176 [4] SYSTEMS ENGINEERING MANAGEMENT
EMGT 195 [4] ENGINEERING MANAGEMENT SENIOR PROJECT

GENERAL EDUCATION
PACS 001 [4] PACIFIC SEMINAR 1
PACS 002 [4] PACIFIC SEMINAR 2
PACS 003 [3] PACIFIC SEMINAR 3
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)

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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