

# MBA/MS Engineering, Specialization in ENGINEERING MANAGEMENT

## 2007-09 Cal Poly Catalog

### College of Engineering

Engineering Bldg. (13), Room 266  
(805) 756-2131

### Graduate Programs, College of Business

Business Bldg. (03), Room 409  
(805) 756-2637

The dual-degree Engineering Management Program (EMP) is an interdisciplinary program linking the MBA and MS in Engineering degree programs. It is a cooperative effort between the Orfalea College of Business and the Cal Poly College of Engineering (Industrial and Manufacturing Engineering Department). Students are required to have a prerequisite degree in engineering, computer science, or equivalent technical degree to be admitted to both the College of Engineering and the Orfalea College of Business, and to be enrolled in both degree programs. Successful participants are awarded both MBA and MS in Engineering degrees, each with a specialization in Engineering Management.

The mission of the EMP is to develop high quality industry-ready graduates who will be facilitators of change and integrators of engineering, business, and people issues.

The three major objectives of this program are to:

- 1) integrate knowledge and skills from engineering and business disciplines for effective responses to rapidly changing technological and business environments;
- 2) prepare engineers for effective participation in the management of technology, management of technology-based organizations, and management of technological change; and
- 3) take advantage of the unique background of program participants and the unique strengths of Cal Poly.

### Prerequisites

Students are required to possess a bachelor's degree, from an accredited program in engineering, computer science, or equivalent technical degree.

### Admission/Acceptance Requirements

Admission to the EMP is based upon:

- successful completion of an accredited undergraduate program of study
- prior academic performance with particular emphasis placed on the last 90 quarter units (60 semester units)
- achievement on the Graduate Management Admission Test (GMAT) and the Graduate Record Examination Test (GRE)
- prior work experience (desirable).

### Culminating Experience

In order to satisfy the culminating experience requirement, students must satisfactorily complete a comprehensive examination at the end of GSB 562 or GSB 567 and satisfactorily complete a comprehensive project, IME 596 or design project/thesis, IME 599. Other courses and/or options may be available, but must be approved in advance by the

Orfalea College of Business Associate Dean of Graduate Programs and by the College of Engineering, Engineering Management Program Advisor.

### Required courses (62)

GSB 511 Accounting for Managers .....	4
GSB 513 Organization Behavior .....	4
GSB 523 Managerial Economics .....	4
GSB 524 Marketing Management .....	4
GSB 531 Managerial Finance.....	4
GSB 533 Aggregate Economic Analysis & Policy	4
GSB 562 Seminar in General Mgmt & Strategy <i>or</i>	
GSB 567 Adv Sem International Business Mgmt	
<i>or other approved culminating experience .....</i>	4
IME 430 Quality Engineering .....	4
IME 503 Applied Statistical Methods in Engrg .....	4
IME 507 Graduate Seminar .....	4
IME 556 Technological Project Management .....	4
IME 580 Manufacturing Systems .....	4
IME 596 Internship/Team Project (10) <i>or</i> IME 599	
Design Project (Thesis) (9) .....	9/10
<b>College of Engineering approved electives .....</b>	<b>16-17</b>
<b>Other advisor approved electives .....</b>	<b>16</b>
<i>One elective must satisfy the Orfalea College of</i>	
<i>Business' international course requirement</i>	
	90

**Formal Study Plan.** The Formal Study Plan for this dual degree program must be approved in advance by both the Orfalea College of Business – Associate Dean of Graduate Programs and by the College of Engineering – Engineering Management Program Advisor.