Master of Science in Engineering Management (code 6-4306)

The following new pilot program was recommended by the Academic Senate on March 14, 2002, approved by the President on April 9, 2002 and approved by the Chancellor's Office on October 23, 2002.

Program Directors:
Dr. Mihir K. Das, Associate Dean for Instruction, CSULB College of Engineering
Kenneth Poertner, Director of Graduate Programs, CSUDH School of Business and Public Administration

The Master of Science in Engineering Management (MSEM) is a Pilot Program effective from Fall 2002 to Fall 2007. It is jointly offered by the College of Engineering at California State University, Long Beach (CSULB) and the School of Business and Public Administration at California State University, Dominguez Hills (CSUDH). The MSEM degree program is offered entirely over the Internet.

The MSEM is an interdisciplinary degree designed to integrate the development of management and engineering skills focusing on problem solving in the synthesis of technical, financial, and organizational requirements for engineering projects in a rapidly changing environment. The College of Engineering at CSULB has the primary responsibility for the engineering component of the program, and similarly, the School of Business and Public Administration at CSUDH has the primary responsibility for the business and management component of the program.

Degree Designation

The degree is designated as the Master of Science in Engineering Management and is granted at California State University, Long Beach in the name of the two institutions in accordance with an agreement between both campuses of the California State University system. The diploma indicates the dual nature of the degree and specifies that it be granted only when requirements in both subject areas, as specified by the collaborating institutions, have been satisfied.

Program Supervision

Overall program supervision is the joint responsibility of the Associate Dean for Instruction, CSULB College of Engineering and the Director of Graduate Programs, CSUDH School of Business and Public Administration. The faculty guidance committees on both campuses will monitor the curriculum changes as needed. Students must be admitted to both institutions jointly.

Admission Requirements

1. A bachelor's degree in an ABET accredited curriculum in engineering with a minimum GPA of 2.5, or a bachelor's degree with a minimum GPA of 2.5 in engineering, mathematics, a natural science or other discipline that fulfills the
essential undergraduate prerequisites in engineering. Foreign students must meet equivalent standard.

2. A minimum of two (2) years of professional engineering experience and demonstration of sufficient background to perform graduate study in business.

3. The general Graduate Record Examination (GRE) is required. A minimum score of 450 on the Graduate Management Admissions Test (GMAT) may be substituted for this requirement.

4. Applicants whose first or native language is not English are required to have a minimum score of 550 in the Test of English as a Foreign Language (TOEFL). However, this requirement is waived for students with a bachelor's or master's degree from an accredited U.S. university.

5. The Writing Proficiency Examination (WPE) or its equivalent must be passed during the first session of enrollment unless taken and passed previously. Courses taken after the first session without having passed the WPE may not be counted toward the degree.

**Advancement to Candidacy**

1. Student must remove any deficiencies as determined by the Program Graduate Advisor.

2. At the direction of the Program Graduate Advisor, students may be required to take examinations in their chosen areas.

3. Students must have completed at least 18 units of core curriculum with a minimum Grade Point Average (GPA) of 3.0.

4. Student must have passed the Writing Proficiency Examination or equivalent

**Program Requirements**

The MSEM program requires the completion of 33 semester units of coursework (core + capstone project) and any preparatory prerequisite coursework, as indicated below:

**Prerequisite Coursework (subject credits only)**

CSULB: CE 406 Engineering Economy and Administration (3)
CSUDH: BUS 495 Special Topics in Financial Accounting/Business Finance (2)
CSUDH: BUS 495 Special Topics in Business: Marketing Principles/Economics of the Firm (2)

**Core Coursework**

CSULB: ENGR 591 Engineers to Managers - A Transition (3)
CSULB: CE 570 Engineering Management - Principles and Practices (3)
CSULB: MAE 506 Engineering Management and Policy (3)
CSULB: MAE 507 Engineering Project Management (3)
CSULB: MAE 511 Advanced Manufacturing Management Systems (3)
CSUDH: ACC 502 Advanced Topics in Accounting (3)
CSUDH: FIN 500 Advanced Topics in Finance (3)
CSUDH: MGT 500 Human Behavior in Organizations (3)
CSUDH: MKT 500 Strategic Marketing: Cases and Current Issues (3)
CSUDH: MGT 595 Special Topics in Management: Team Management and Leadership (3)
Capstone Integrative Coursework - Culminating Experience

CSULB: ENGR 596  Special Projects in Engineering Management (3)

Notes:
1. The prerequisite coursework may be waived for students who have successfully completed undergraduate courses in the disciplines indicated.
2. Students are strongly advised to read and be familiar with the campus regulations described under "Graduate Programs" elsewhere in the CSULB and CSUDH Catalogs.

EFFECTIVE: Fall 2002 through Spring 2007

Code:  6-4306
College:  52
Career:  GR
IPEDS (Major) ERSS:  09132
IPEDS (Degree) ERSD:  09132