

Guidelines for Students Enrolling in the Non-Degree Conferring Program in Engineering Management

Amended and approved by a meeting of the College of Engineering Curriculum Committee on May 30, 2002
Amended and approved by a meeting of the National Central University Curriculum Committee on June 10, 2002
Amended and approved by a meeting of the Academic Affairs Committee on June 18, 2002
Amended and approved by a meeting of the College of Engineering Curriculum Committee on September 26, 2005
Amended and approved by a meeting of the National Central University Curriculum Committee on October 4, 2005
Amended and approved by a meeting of the Academic Affairs Committee on October 12, 2005

1. The aim of this program is to provide students with a foundation in engineering technology and management knowledge so as to enable them to conduct research or expand their employment opportunities in this area.
2. Students studying in any college or department in the University may apply for entry into this program.
3. University students who comply with these guidelines and earn the required number of credit hours shall have the name of the program as well as the number of credit hours earned clearly indicated on their transcript and shall also be awarded a certificate of completion.
4. This non-degree conferring program is comprised of a total of nine subjects, which are grouped as follows:
 1. Three basic courses in Management, Economics and Statistics.
 2. Three practicums in engineering management offered by the respective departments (see Table Two).
 3. Two management-related core courses (see Table Three).
 4. Special Topics in Engineering Management (CI2024, one credit hour).
5. Special Topics in Engineering Management requires a senior thesis related to one of the program's practicums. Students may choose one of two options to fulfill this requirement:
 1. Completion of a 5000-word report in Chinese on the student's experience in a two-month summer internship at an engineering-related company.
 2. Submission of a 10,000-word research report in Chinese on industrial research on any topic relating to one of the program's practicums prior to graduation.
6. Students enrolling in this program shall have completed taking one introductory course relating to engineering, such as Introduction of Civil Engineering, Introduction to

Mechanics, Introduction to Electrical Engineering, and Introduction to Daily Chemical Products.

7. These guidelines shall be implemented and entered into force upon approval by a meeting of the Academic Affairs Committee. The same procedure applies to any amendment of these guidelines.

Table One: Basic Courses

Introduction to Management	Offered by the Department of Civil Engineering (Course Number CI2022,3)
Economics	Offered by the Department of Civil Engineering or College of Management (course Number CI2021,3)
Statistics	Offered as a general knowledge course by various departments in the college

Table Two: Practicums (choose three)

Environmental Impact Assessment	EN6012,2	Graduate Institute of Environmental Engineering
Industrial Management	CH4008,3	Department of Chemical and Materials Engineering
Process Design	CH4004,3	Department of Chemical and Materials Engineering
Construction Management	CI4010,3	Department of Civil Engineering
Construction Cost Estimation and Specifications	CI4009,3	土木系 Department of Civil Engineering
Construction Project Management	CI4057,3	Department of Civil Engineering
Quality Assurance of Civil Engineering Materials	CI7069,3	Department of Civil Engineering
Open and Creative Mechanical Engineering Design	ME3075,3/ME3076,3	Department of Mechanical Engineering
Computer Aided Manufacturing	ME7070,3	Department of Mechanical Engineering
Reliability Engineering	ME6093,3	Department of Mechanical Engineering
Other courses recognized by the College of Engineering's Curriculum Instruction Committee		

Table Three: Core Courses (choose two)

1. Industrial Management		
Planning and Scheduling	IA5051,3	Institute of Industrial Management
Production and Operation Management	BA3001,3/IM6041,3	Departments of the College of Management
2. Finance		
Financial Management	BA2000,3	Departments of the Center for General Education and the College of Management
Engineering Economics	CI4020,3	Department of Civil Engineering
Investment	FM3017,3/FM3041,3	Department of Finance
3. Laws		
Outline of Civil Code	BA3000,3	Department of Business Administration
Business Law	IM4053,2	Department of Information Management
4. Human Resources		
Human Resource Management	HR6002,3	Graduate Institute of Human Resource Management
Organizational Behavior	BA2015,3	Departments of the College of Management

Addendum:

1. The actual course numbers, course titles, and related information shall be based on the course schedule published by the University.
2. In principle, all basic courses, practicums, and core courses in this program shall be three-credit hour courses per semester.
3. To learn about the rights and of students participating in this program, refer to the University's *General Handbook of University Regulations and Academic Guidelines*.