

# Management Science and Engineering

Program Code: 1201

## 1. Program Objectives

The purpose of this major is to cultivate systematic power of thought and ability of engineering practice; master the basic theory knowledge of management science systematically; use the theory and method of management science to analyze and solve the practical problems in social, economic and engineering fields. This major aims at cultivating high-quality management talents with scientific spirit and international vision.

## 2. Program Directions

- (1) Energy System Management and Policy
- (2) Theory and Method of Management Science
- (3) Engineering and Project Management
- (4) Data Science and Information Management

## 3. Program Duration

3-5 years

## 4. Credit Requirements

The minimum total credit is 28 credits, and the compulsory course should be no less than 13 credits.

## 5. Course Schedule

Course Type		Course Code	Course Name	Hours	Credit	Semester
Compulsory Courses	Public Compulsory Courses	L6200001	Survey of China	36	2	1
		L6200002	Primary Chinese	80	4	1
	Specialized Basic Course	L6082001	Advanced Management Statistics	48	3	1
		L6081001	Advanced Operation Research	48	3	1
		L6081103	Research Methods of Management Science	48	3	2
Elective Courses	Specialized Elective Courses	L7085102	Energy Economics	32	2	2
		L6081005	Management System Engineering	32	2	2
		L6081006	Advanced Project Management	32	2	2
		L6081107	Data Mining and Machine Learning	32	2	2
		L6081111	Frontier of Management Science	32	2	3

		L7081112	Production Operation Management	32	2	3
Compulsory Sections (2 credits)		L7080101	Participate in 10+ Seminars and Make 1 Academic Presentation		1	1-3
		L7080103	Literature Review and Research Proposal		1	3

Notes: The students must pass HSK level 3.