

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.