# **Materials Science and Engineering**

(Grade 2022)

### Course code: 080401

### I. Cultivation Objectives

#### 1. General cultivation objective

This program cultivates technical talents who have good overall development in moral, intellectual, physical, aesthetic and labour aspects, have spirit of "strong conviction, hard work and commitment", master the basic theory, professional knowledge and application skills of materials science and engineering, adapt to the rapid technological development of new energy industry, meet the needs of national and Yangtze River Delta economic construction, and are competent in the design, research and development, production, operation and management of new energy materials and devices in the emerging industries and new economy of efficient "energy production", "energy storage" and "energy conservation"...

2. Objective of value guidance

The program takes moral education as the core of education, practices the core values of socialism, highlights the promotion of the spirit of model workers and craftsmanship, cultivates students to develop a rigorous and meticulous, dedicated and responsible work attitude, and to have the quality of strong conviction, hard work and commitment" to promote the development of the national new energy materials and their comprehensive development and utilization industry. The programme is designed to promote the development of new energy materials industry.

3. Five years after graduation, students in this program should achieve the following objectives:

(1) Professional foundation and skills: Have solid knowledge of mathematics, physics, chemistry and other natural sciences; have basic knowledge of engineering theory such as electrical and electronics, engineering drawing, computers and certain knowledge of engineering management; have professional knowledge and technology in the field of Materials Science and Engineering, to analyse and research complex engineering problems in the fields of high-efficiency energy storage, high-efficiency energy transfer and high-efficiency energy conservation and to propose system solutions.

(2) Career orientation: Be able to follow the frontier technology of new energy Materials Science and Engineering and related fields, with the ability of engineering practice and innovative thinking. Be able to undertake the production, management, research and development, design and other work of new new energy materials and devices, and reach the level of engineer practice.

(3) Basic qualities: Be familiar with the important laws, regulations and policies of the professions and industries related to materials and new energy, have good moral and humanistic qualities, have a sense of law, environment and sustainability, and be able to abide by professional ethics and social responsibility.

(4) Social skills: Have good interpersonal skills, organizational management and implementation skills, be a team player, able to integrate, drive or coordinate the organization and implementation of projects and play an effective role.

(5) Self-development: Understand the laws of the development of new energy materials technology, continuously improve the application ability and level, have the habit and ability of self-development and lifelong learning, and be able to actively adapt to the changes and development of the professional environment.

#### **II. Graduation requirements**

**1**. Engineering knowledge: Have the ability to apply mathematical, natural science and engineering fundamentals and professional knowledge to complex engineering problems in the field of Materials Science and Engineering.

1-1 Have knowledge of Advanced Mathematics, Probability Theory, Linear Algebra and the basic methods of applying them to the formulation, modelling and solution of Materials Science and Engineering problems, with strong logical thinking skills and mathematical applications.

1-2 Master a basic knowledge of the natural sciences such as physics, chemistry and mechanics that can be used in the design, calculation and analysis of complex Materials Science and Engineering problems.

**1-3** Have knowledge of mechanical, electrical and electronic engineering techniques and engineering principles, and the ability to apply relevant engineering fundamentals to preliminary engineering design.

**1-4** Master basic theoretical and professional knowledge of Materials Science and Engineering and new energy sources, and be able to apply them to complex engineering problems in the field of new energy Materials Science and Engineering by combining mathematical, natural science and engineering knowledge.

**2**. Analysis of the Problem: Have the ability to apply the fundamental principles of mathematics, natural sciences and engineering sciences to identify, represent, and analyse complex engineering problems in Materials Science and Engineering through literature research in order to reach valid conclusions.

**2-1** Demonstrate the ability to formulate and model complex Materials Science and Engineering problems using the fundamental principles of mathematics, natural and engineering sciences studied.

**2-2** Be able to express scientific and engineering problems of complex new energy-related materials and devices and seek their solutions based on the fundamental principles of materials science and engineering and related fundamental knowledge.

**2-3** Be able to apply the fundamental principles of the relevant sciences and draw on literature research to analyse complex engineering problems in the preparation/processing and application of new energy materials and their devices and to obtain valid conclusions.

**3.** Design/develop of solutions: Be able to conceptualize and design solutions to complex engineering problems in the field of Materials Science and Engineering based on CDIO engineering concepts, and design systems, units (components) or processes that meet the specific needs of the new energy field, and be able to demonstrate a sense of innovation in the design process, taking into account social, health, safety, legal, cultural and environmental factors.

**3-1** Understand the full process of materials product development and the basic methods of its process design, and understand the various factors that influence the product development process and process design.

**3-2** Be able to address complex engineering problems in the field of Materials Science and Engineering based on the fundamental laws of material composition, organization, structure and properties, through the rational design of processes, the correct selection of materials and the development of processing techniques to meet specific needs.

3-3 Be able to develop innovative design solutions that take into account social, health, safety, legal, cultural and

environmental considerations in the engineering design and development of Materials Science and Engineering.

**4**. Research: Have the ability to apply scientific principles and methods to complex engineering problems in the field of Materials Science and Engineering, including designing experiments, analyzing and interpreting data, and synthesizing information to reach reasonable and valid conclusions.

**4-1** Be able to analyse relevant phenomena and properties in Materials Science and Engineering problems based on scientific principles, basic principles of engineering technology and experimental analysis methods.

**4-2** Be able to apply the basic principles and scientific methods of Materials Science and Engineering to select research pathways and design experimental protocols based on practical new energy engineering problems.

**4-3** Be able to optimize experimental plans, select or build experimental platforms, collect experimental data scientifically, analyse and interpret experimental research results, and draw reasonable and valid conclusions through information synthesis for complex engineering problems in the field of Materials Science and Engineering.

**5**. Use of modern tools: Have the ability to develop, select and use appropriate techniques, resources, modern engineering tools and information technology tools for complex engineering problems in Materials Science and Engineering, including the prediction and simulation of complex engineering problems in Materials Science and Engineering and new energy sources, and to understand their limitations.

**5-1** Have knowledge of the principles and methods of using engineering graphics and computer-aided design and understanding of their limitations.

**5-2** Be able to develop, select and use modern specialist testing equipment and analytical tools for complex engineering problems in the field of Materials Science and Engineering, to effectively use modern materials and device analysis tools to predict and simulate complex engineering problems, and be able to analyse and understand their limitations.

**6**. Engineering and Society: Have the ability to undertake sound analysis based on background knowledge of engineering and to evaluate the social, health, safety, legal and cultural impacts of engineering practices and solutions to complex engineering problems in the field of Materials Science and Engineering, and to understand the responsibilities involved.

**6-1** Have the knowledge of Materials Science and Engineering and the technical standards, industrial policies and laws and regulations, and culture of the new energy-related industries.

**6-2** Be able to objectively analyse and evaluate the social, health, safety, legal and cultural impacts of engineering practices and solutions to complex engineering problems in the field of Materials Science and Engineering, and understand the responsibilities involved.

7. Environment and Sustainable Development: Have the ability to understand and evaluate the impacts of professional engineering practice on environmental and social sustainability in relation to complex engineering problems in the field of Materials Science and Engineering.

7-1 Understand national strategies and related policies, laws and regulations for energy, environment and social sustainability, and be able to develop a concept of environmental protection and sustainable development and an understanding of its impacts.

**7-2** Be able to understand and evaluate the impacts of engineering practice on environmental and social sustainability for complex engineering problems related to the field of Materials Science and Engineering.

8. Professional Codes: Have humanities and social sciences literacy, social responsibility and the ability to

understand and comply with engineering ethics and codes of practice and responsibilities in the field of Materials Science and Engineering.

**8-1** Have knowledge of literature, history, philosophy, law and ethics and other humanities, understanding of national conditions and history, and humanities and social science literacy.

**8-2** Be able to understand and comply with professional ethics and codes of conduct in the practice of engineering in the field of materials science and engineering. Be able to exercise conscious responsibility and a sense of social responsibility.

**9**. Individual and Team: Have the ability to assume the role of individual, team member and leader of a team in a multidisciplinary context.

**9-1** Demonstrate interpersonal and teamwork skills with the ability to work independently or cooperatively in a team.

**9-2** Be able to do well in the roles they assume in a multidisciplinary context and organize, be able to coordinate and direct the work of a team.

**10**. Communication: Have the ability to communicate effectively with industry peers and the public on complex engineering issues in the field of Materials Science and Engineering, including writing reports, briefs design, making presentations, expressing views clearly and answering questions; have a good command of a foreign language, an international perspective and the ability to communicate and interact in a cross-cultural context.

**10-1** Master the methods and presentation skills of writing technical documents or scientific papers, and have the ability to write reports, design presentations, present speeches and express themselves clearly, and be able to communicate and interact effectively with industry peers and the public on complex engineering issues in the field of Materials Science and Engineering related to new energy.

**10-2** Master a foreign language, understand international trends and research hotspots in the field of Materials Science and Engineering, and have a certain international perspective and the ability to communicate and interact in a cross-cultural context.

**11**. Project Management: Understand and master the principles of engineering management and apply them in a multidisciplinary environment.

**11-1** Have knowledge of the relevant engineering management principles involved in the practical activities of energy engineering.

11-2 Be able to apply engineering management methods in a multidisciplinary environment and in the process of engineering design and technology development in the field of new energy related Materials Science and Engineering.

**12**. Spirit and ability of lifelong learning: Have a sense of independent and lifelong learning, with the ability to learn and adapt to development.

12-1 Be able to recognize the importance of continuous exploration and learning in the context of social and technological development; have the ability to continuously acquire new knowledge through literature research, specialized communication, engineering practice, etc. and have an consciousness of independent and lifelong learning.

12-2 Be physically fit and have the ability to continually learn and adapt to development.

#### **III. Schooling System**

Four years.

## **IV. Length of Study**

Flexible study period, generally four years, the minimum length of flexibility is not less than three years, the longest not more than six years.

# V. Requirements for Graduation and Degree Conferring

In order to graduate, students must complete the minimum number of credits required by the Instructive Cultivation Plan for each course category and all the content required by the Extracurricular Class, with a total of 165 credits, and will be awarded a Bachelor of Engineering degree if they meet the requirements for the award of a Bachelor's degree.

## **VI.** Discipline

Materials Science and Engineering

# **VII.** Core Courses

Physical Chemistry, Fundamentals of Materials Science, Introduction to Solid State Physics, Structure and Properties of Materials, Materials Chemistry, Nanomaterials Technology, Chemical Power Sources, New Energy Technologies and Applications, Thin Film Materials and Device Preparation Technologies, Fundamentals of Materials Engineering

Category	Total Credit	%	Total Course Hours	Theory Learning	Practical Training	
Public Fundamental Course	55.5	34	1024	944	80	
General Education	10	6	160	160	0	
Engineering Fundamental Course	10	6	160	128	32	
Professional Fundamental Course	22	14	352	336	16	
Professional Course	25	15	400	400	0	
Professional Practice	41.5	25	1000	0	1000	
Total	164	100	3096	1968	1128	
Theory: Practical (%)	64:36					

# VIII. Course Structure and Course Hours (excluding Extracurricular Class)

# IX. Teaching schedule (1)

Category	Туре	Type Provided by Course Course Name Code		Assessment	Credit	Course Hours	Theory Learning	Practical Training	Recommended semester	
	required	School of Marxism	b1080001	Basic Principles of Marxism	test	3	48	42	6	Autumn 1
	required	School of Marxism	b1080009	Ethics and the Rule of Law	non-test	3	48	42	6	Autumn 1
	required	School of Marxism	b1080006	Outline of Modern Chinese History	non-test	3	48	42	6	Spring 1
	required	School of Marxism	b1080004	Introduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics I	test	3	48	42	6	Autumn 2
	required	School of Marxism	ь1080007	ntroduction to Mao Zedong Thought and the Theoretical System of Socialism with Chinese Characteristics II		2	32	28	4	Spring 2
	required	School of Marxism		Situation and Policy (Modules 1 to 4)	non-test	2	32	28	4	Autumn 1 to
	required	School of Marxism	b1080008	Labour Education A	non-test	0.5	16	16		Spring 1
	required	College of Arts and Sciences	b1020080+	Advanced MathematicsA1	test	4	64	64		Autumn 1
	required	College of Arts and Sciences	b1020081+	Advanced MathematicsA2	test	4	64	64		Spring 1
	required	College of Arts and Sciences	b1020012	Linear Algebra	test	2	32	32		Autumn 2
Public	required	College of Arts and Sciences	b1020013	Probability Theory and Mathematical Statistics		2	32	32		Autumn 2
Fundamental	required	College of Arts and Sciences	b1020018	Academic Chinese no		2	32	32		Spring 1
Course	required	College of Arts and Sciences	b1020064	Academic Physics A (Module 3)		3	48	48		Spring 1
	required	College of Arts and Sciences	b1020065	Academic Physics B		2	32	32		Autumn 2
	required	College of Arts and Sciences	b1020111	Academic Physics C		2	32		32	Autumn 2
	required	College of Physical Education		Physical Education I to VI n		3	160	160		Autumn 1 to
	required	Others	b1110003	Military skills		0.5	2W			Autumn 1
	required	College of Arts and Sciences	b1110002	Military theory		0.5	32	32		Spring 1
	required	College of Arts and Sciences	b1020003	General English III		3	48	48		Autumn 1
	required	College of Arts and Sciences	b1020004	General English IV		3	48	48		Spring 1
	required	College of Arts and Sciences	b1020005	General Academic English A	test	2	32	32		Autumn 2
	required	College of Arts and Sciences		English Knowledge Expansion n		2	32	32		Spring 2
	required	Engineering Training	b1010005	University Computer Fundamentals n		2	32	32		Spring 1
	required	Others	b1110004	Mental Health Education for University Students	non-test	2	32	16	16	Autumn 1
	Subtotal (Public Fundamental Course)						1024	944	80	
	selective	Art Education Center	b0	Aesthetic Education	non-test	2	32	32		Autumn, Spring
<b>General Education</b>	selective	Each College	b0	Social Sciences and Humanistic Qualities	non-test	4	64	64		Autumn, Spring
	Sciective	Luch Conege		Natural Sciences and Technology Innovation	non-test	4	64	64		Autumn, Spring
			Subtota	l (General Education)		10	160	160		

# IX. Teaching schedule (2)

Category	Туре	Provided by	Course Code	Course Name	Assessment	Credit	Course Hours	Theory Learning	Practical Training	Recommended semester	
Engineering	required	School of Energy and Materials	b2013147cl	Mechanics of Materials	test	2	32	32		Autumn 2	
Fundamental	required			Mechanical drawing	test	4	64	48	16	Spring 2	
Course	required	Engineering Training	b2090009 Electrical and Electronic Technology				64	48	16	Spring 2	
			Subtotal (E	ngineering Fundamental Course)		10	160	128	32	<u> </u>	
	required	School of Energy and Materials	b2013098cl	Introduction to the Program of Materials Science and Engineering	non-test	1	16	16		Autumn 1	
	required	School of Energy and Materials	b2013133cl	Fundamentals of Materials Science I	test	2	32	32		Autumn 2	
	required	School of Energy and Materials	b2013148cl	Fundamentals of Materials Science II	test	2	32	32		Spring 2	
Professional	required	School of Energy and Materials	b2013153cl	Academic Chemistry	test	4	64	64		Spring 1	
Fundamental	required	School of Energy and Materials	b2013081cl	Physical Chemistry	test	4	64	48	16	Autumn 2	
Course	required	School of Energy and Materials	b2013114cl	Introduction to Solid State Physics	test	2	32	32		Spring 2	
	required	School of Energy and Materials	b2014005cl	Materials Chemistry	test	2	32	32		Autumn 3	
	required	School of Energy and Materials	b2013013c1	Material structure and properties	test	3	48	48		Autumn 3	
	required	School of Energy and Materials	b2013131cl	Materials Analysis and Testing	test	2	32	32		Autumn 3	
			Subtotal (P	rofessional Fundamental Course)		22	352	336	16		
	required	School of Energy and Materials	b2014008cl	Chemical power supplies	test	2	32	32		Spring 2	
	required	School of Energy and Materials	b2014009cl	New Energy Technology and Applications	non-test	2	32	32		Autumn 3	
	required	School of Energy and Materials	b2013009cl	Fundamentals of Materials Engineering	test	2	32	32		Autumn 3	
	required School of Energy and Materials		b2013034cl	Polymers	test	3	48	48		Autumn 3	
	required	School of Energy and Materials	b2013072cl	Nanomaterials technology	test	2	32	32		Spring 3	
	required	School of Energy and Materials	b2013005cl	Thin film materials and preparation technology	test	2	32	32		Spring 3	
	required	School of Energy and Materials	b2013134cl	Energy Engineering Management	non-test	2	32	32		Spring 3	
	required	School of Energy and Materials	b2014021	4021 Scientific and Technical Paper Writing and Literature Search nor		1	16	16		Autumn 4	
	required	School of Energy and Materials	b2014007cl	Ethics in Engineering	non-test	1	16	16		Summer 1	
				Subtotal(Required Professional Course)		17	272	272			
		Module A	b2013149cl	Energy electrochemistry	non-test	2	32	32		Autumn 3	
	_		b2013020cl	Energy Storage Materials and Technologies	non-test	2	32	32			
			b2013135cl	Lithium-ion battery principles and key technologies	non-test	2	32	32		Spring 3	
			b2013136cl	Hydrogen and fuel cell technology	non-test	2	32	32		(Selective	
<b>Professional Course</b>				b2013019cl	Supercapacitor Materials and Technologies	non-test	2	32	32		6 credits)
				b2013137cl	Power Battery Technology and Applications	non-test	2	32	32		
			Module B	b2013003cl	Semiconductor Physics and Devices	non-test	2	32	32		Autumn 3
	Select different		b2013138cl	Heat Transfer in Materials	non-test	2	32	32			
	courses in		b2013139cl	Energy efficient materials and technologies	non-test	2	32	32		Spring 3	
	different		b2013140cl	Thermal Energy Conversion and Utilization	non-test	2	32	32		(Selective	
	modules for		b2013141cl	Semiconductor Light Emitting Materials and Devices	non-test	2	32	32		6 credits)	
	8 credits		b2013068cl	Introduction to Computational Materials Science	non-test	2	32	32			
			b2011064c1	Photovoltaic power generation technology	non-test	2	32	32		Autumn 3	
		Module C	b2013142cl	Energy Conversion Materials and Devices	non-test	2	32	32			
			b2013143cl	Solar power systems and applications	non-test	2	32	32		Spring 3	
			b2013121cl	New solar cell materials	non-test	2	32	32		(Selective	
			b2013144cl			2	32	32		6 credits)	
			b2013145cl	Solar cell process principle	non-test	2	32	32			
			-	Subtotal (Selective Professional Course)		8	128	128			
				Subtotal (Professional Course)		25	400	400			

## IX. Teaching schedule (3)

Category	Туре	Provided by	Course Code	Course Name	Assessment	Credit	Course Hours		Practical Training	Recommended semester
	required	Engineering Training	b4090003	Basic Engineering Training C	non-test	2	48		48	Summer 1
	required	School of Energy and Materials	b4020001cl	Academic Chemistry experiments	non-test	1	24		24	Summer 1
	required	School of Energy and Materials	b4013073cl	Orientation	non-test	1	24		24	Summer 1
	required	School of Energy and Materials	b4013050cl	Students participation in research practice	non-test	1	24		24	Summer 2
	required	School of Energy and Materials	b4013036cl	Academic Lectures	non-test	1	24		24	Summer 2
	required	School of Energy and Materials	b4013068cl	Tier 1 Project I (Introduction to New Energy Materials and Devices)	non-test	2	48		48	Summer 2
	required	School of Energy and Materials	b4000003c1	the Program of Materials Science and Engineering Innovation and Entrepreneurship	non-test	2	48		48	Spring 3
	required	School of Energy and Materials	b4013069cl	Materials analysis experiments	non-test	2	48		48	Spring 3
	required	School of Energy and Materials		Practice for New Energy Materials Engineering	non-test	2	48		48	Spring 3
	required	School of Energy and Materials	b4013086cl	Training in the testing and analysis of thermophysical properties of materials	non-test	3	72		72	Autumn 4
	required	School of Energy and Materials	b4014009cl	Solar photothermal catalytic hydrogen precipitation	non-test	2	48		48	Autumn 4
Professional Practice	required	School of Energy and Materials	b4013067cl	Tier 1 Project II (Advanced New Energy Materials and Device Design)	non-test	2	48		48	Autumn 4
1100000	required	School of Energy and Materials	b4013087	Labour Education B non-test 0.5 16					16	Spring 3
	required	School of Energy and Materials	b4013003	Materials Science and Engineering Graduation Internship and Graduation Design (Thesis)	non-test	12	288		288	Spring 4
	Subtotal(Required Professional Practice)						808		808	
		Module A	b4014010cl	Level II project (chemical cell system)	non-test	4	96		96	Summer 3
			b4014011cl	Level 2 projects (supercapacitors)	non-test	4	96		96	Summer 3
	Select		b4014012cl	Tier 2 project (electrochemical catalytic hydrogen precipitation)	non-test	4	96		96	Summer 3
	different courses in	Module B	b4014013cl	Level 2 project (LED energy saving lamps)	non-test	4	96		96	Summer 3
	different		b4014014cl	Secondary projects (solar photovoltaic - cogeneration)	non-test	4	96		96	Summer 3
	modules for		b4014015cl	Secondary projects (waste heat conversion and utilization)	non-test	4	96		96	Summer 3
	8 credits	redits Module C		Secondary project (dye-sensitised solar cells)	non-test	4	96		96	Summer 3
				Tier 2 Project (Calcium Titanium Ore Solar Cells)	non-test	4	96		96	Summer 3
			b4014018cl	Level II project (electrochromic devices)	non-test	4	96		96	Summer 3
Subtotal(Selective Professional Practice)						8	192		192	
	1			Subtotal(Professional Practice)		41.5	1000		1000	
Extracurricular Class	required	Others	b5110001	Extracurricular Class	non-test	1	-	-	-	Autumn, Spring, Summer
				Total		165	3096	1968	1128	

#### 1. Description of Selective Professional Course and Selective Practice:

The modular Professional Courses modules A, B and C correspond to the three directions of New Energy Efficient Storage Materials and Devices, New Energy Efficient Energy Saving Materials and Devices and New Energy Efficient Conversion Materials and Devices respectively.

When choosing the professional courses corresponding to the modules, students can only choose one of the modules A, B and C and complete the professional courses of that module in the Autumn 3 and Spring 3 semesters. The selective professional practice Module A, B and C in Summer 3 semester correspond to selective professional courses module A, B and C respectively, and students can only select selective professional practice courses in accordance with this correspondence (see Part 18: Topology Map).

#### 2. Explanation of the relevance of professional certificates to the course:

Through the courses of photovoltaic power generation technology, new solar cell materials, building energy-saving technology and energy-saving materials, energy engineering management and new energy power generation technology, students can take the assessment of vocational qualifications related to this program or have the ability to take the relevant vocational qualifications in the future: photovoltaic engineer, energy-saving and emission reduction engineer, new energy engineer.

# X. Prerequisite for Course Study

No.	Course Name	Prerequisite Course	No.	Course Name	Prerequisite Course
		University Physics		Introduction to New Energy	Introduction to the Program of Materials Science and Engineering
1	Physical Chemistry	Academic Chemistry	11		Fundamentals of Materials Science
		Advanced Mathematics			Materials Chemistry
2	Fundamentals of	University Physics	12	Polymers	Fundamentals of Materials Science
2	Materials Science	Academic Chemistry	12	Polymers	Materials Chemistry
3	Mechanics of	University Physics	13	Nanomaterials	Fundamentals of Materials Science
5	Materials		15	technology	Materials Chemistry
	Mechanical	Mechanics of Materials	14	Thin Film Materials	Materials Chemistry
4	drawing		14	and Device Preparation Technology	Fundamentals of Materials Science
5	Electrical and Electronic	University Physics	15	Energy Engineering Management	Introduction to the Program of Materials Science and Engineering
	Technology		10		Introduction to New Energy
	. Introduction to	University Physics		Energy electrochemistry	Physical Chemistry
6	Solid State Physics	Fundamentals of Materials Science	16		Chemical power supplies
		Academic Chemistry			Introduction to Solid State Physics
7	Materials	Physical Chemistry	17	Semiconductor Physics	University Physics
	Chemistry	Fundamentals of Materials Science		and Devices	Fundamentals of Materials Science
	Material structure	Fundamentals of Materials Science		Photovoltaic power	Introduction to the Program of Materials Science and Engineering
8	8 and properties		18	generation technology	Introduction to New Energy
		Academic Chemistry			
9	Materials Analysis	Fundamentals of MaterialsMaterials AnalysisScience			
, ,	and Testing	Material structure and properties	19		
10	Chemical power supplies	Physical Chemistry	20		

# XI. Credit of Extracurricular Class

Through taking extracurricular classes, students are encouraged to take part in academic lectures, social practice activities, campus cultural and sports activities, innovative and entrepreneurial activities, voluntary activities, etc. to improve their social adaptability and enhance the competitiveness in the job market. Details are specified in Students' Manual.