Environmental Engineering

Program Code: 082502 Duration: 4 years

Educational Objectives:

The Environmental Engineering program is dedicated to developing high-caliber engineering professionals capable of addressing the challenges of national development and contemporary technological advancements. The program aims to foster well-rounded graduates with a strong ethical foundation, intellectual prowess, physical well-being, aesthetic sensibility, and hands-on practical skills. Students will establish a robust foundation in the natural sciences and humanities, and acquire proficient skills in computer applications and foreign languages. They will master the theoretical principles of environmental engineering and develop an international perspective, along with a capacity for innovation, creativity, and entrepreneurship. Graduates will be qualified to undertake responsibilities in the planning, design, construction, operation, management, scientific research, and education pertaining to environmental engineering projects. Within five years of graduation, it is anticipated that students will evolve into pivotal contributors in research and development, technological innovation, or assume senior management roles in the field of environmental engineering.

Overview of educational objectives

- (1) Acquire solid foundational knowledge: Students will master the fundamental principles, methods and techniques of the major, and have the engineering knowledge of water, gas, solid waste and other pollution prevention, water supply and drainage engineering, environmental planning and resource protection.
- (2) Problem-solving ability: Students will have the ability to design and operate pollution control engineering, develop ability of environmental planning and environmental management, as well as the ability to research and develop new theories, new processes and new equipment in environmental engineering.
- (3) Teamwork and leadership skills: Student will develop ability to communicate and cooperate in a team, which will lead to leadership skills in the field of environmental engineering.
- (4) Cognitive ability of engineering systems: Students will understand that pollution control theory and technology are the core of environmental engineering system design and equipment, and apply it into practice to serve the social development.
- (5) Professional social impact assessment ability: Students will be familiar with the principles, policies, laws and regulations of environmental protection and sustainable development, and be able to correctly view the impact of environmental engineering on the objective world and society.
 - (6) Global consciousness: Students will acquire the concepts of sustainable development, the

ability to maintain a clear sense in a global environment, and to perform their responsibilities in a competitive and responsible manner.

(7) Lifelong learning ability: Graduates will work in government departments, planning departments, economic management departments, environmental protection departments, design units, industrial and mining enterprises, scientific research institutions, schools and other organizations, to perform work related to planning, designing, management, education and R&D with lifelong learning ability.

The training objectives of this major cover the requirements of graduation. Guided by the training objectives, students who achieve the requirements will not only be technical and managerial personnel of the environmental engineering major, but also citizens with good quality. In other words, environmental engineering major not only provides students with professional knowledge, but also enable them to acquire various cultural qualities for sustainable development through university study. Therefore, the program aims to enable graduates to solve various professional and managerial problems from a global perspective.

Graduation Requirements:

- №1. Engineering Knowledge: Be able to use basic knowledge of mathematics, natural sciences, relevant engineering fundamental theories and expertise to develop solutions for complex engineering problems.
- №1.1 Master the knowledge of mathematics and be able to use mathematics to describe, deal with and evaluate engineering problems, and be able to lay a solid mathematical foundation for basic engineering calculations and simulations.
- №1.2 Master the knowledge of chemistry, microbiology and other natural sciences, which provides a solid basis to identify and analyze key problems involved in complex environmental engineering.
- №1.3 Understand the basics of physics, mechanics, electricity, etc. in environmental engineering, master the engineering theories of fluid mechanics, mass transfer and separation, engineering drawing, etc., and be able to lay an engineering foundation to analyze, identify and describe the processes of equilibrium and transfer of matter and energy in complex environmental engineering problems.
- №1.4 Understand the root causes, current situation and coping strategies of environmental problems, master the basics of environmental microbiology, environmental monitoring, chemical engineering principles, etc., and understand the basic theories and grounds of environmental engineering.
- №1.5 Master the principles of engineering treatment of pollutants in water, gas, solid and other media, unit operations and technical means, master the basic theories of relevant majors to solve

complex environmental engineering problems.

- №2. Problem Analysis: Be able to use basic principles of mathematics, natural sciences and engineering sciences to identify, formulate, study and analyze complex environmental engineering problems for valid conclusions.
- №2.1 Master the knowledge of mathematics, chemistry, microbiology and other natural sciences, be able to translate and formulate environmental engineering problems into problems of the corresponding field for analysis.
- №2.2 Master the basic principles of environmental engineering, analyze complex engineering problems in the field of environmental engineering and get solutions to relevant engineering problems.
- №2.3 Apply engineering basis and basic professional principles, conduct literature research, study and analyze complex engineering problems in the field of environment, correctly express the solution of the problem and obtain effective conclusions.
- №3. Design/Development of Solutions: Be able to design solutions for complex engineering problems, as well as systems, units or processes to meet standards and clients' needs with innovation, and take due account of factors such as society, health, safety, laws, culture and environment.
- №3.1 Have basic and professional knowledge of environmental engineering and be able to define design objectives based on complex environmental engineering problems.
- №3.2 Be able to demonstrate the feasibility of engineering projects within the constraints of public health, safety, culture and society.
- №3.3 Be able to choose the optimal pollution control process through research or modeling with innovation, and perform calculations for systems and units (components).
- №3.4 Be able to present design results in the form of drawings, reports, etc.
- №4. Research: Be able to use research methods to study complex engineering problems and systems, including research based on knowledge, design experiments, analysis and interpretation of data, and synthesis of information to provide effective conclusions.
- Be able to study complex environmental science and engineering problems based on scientific principles and scientific methods in fields related to environmental science and engineering, such as chemistry, chemical engineering, physics, and electrical engineering, including designing experiments, analyzing and interpreting data, and summarizing information to reach reasonable and valid conclusions.
- №4.1 Understand the basic status quo of research and development trends in the field of environmental engineering at home and abroad.
- №4.2 Master the basic principles and methods of experiments in physics, chemistry, microbiology

and other experiments related to environmental engineering.

- №4.3 Master the basic experimental methods of engineering treatment of pollutants in water, gas, solid and other media, consolidate the understanding of the basic theoretical knowledge of the major and improve hands-on skills.
- №4.4 Be able to design experiments for the study of complex environmental engineering problems, collect, analyze and interpret data using reasonable means, and obtain effective conclusions in a comprehensive manner.
- №5. Use of Modern Tools: Be able to develop, select, and apply appropriate technologies, resources, and modern engineering and information technology tools aiming at complex environment and engineering problems, including prediction, modeling and recognition of the limitations of complex engineering problems.
- №5.1 Master the methods of literature retrieval by web searching tools, master the basic methods of data searching and use modern information technologies to obtain information related to the environmental engineering major.
- №5.2 Select and use appropriate modern engineering tools and information technology tools for the definition of engineering problems and expression of solutions.
- №5.3 Apply appropriate tools and resources to predict or simulate the operation and effectiveness of solutions to complex environmental engineering problems, and be able to understand their limitations.
- №6. Engineering and the Society: Be able to perform sound analyses based on engineering-related background knowledge, evaluate the social, health, safety, legal, and cultural impacts of environmental science and engineering practices and solutions to complex environmental problems, and understand the responsibilities involved.
- №6.1 Have internship and practical experiences related to the environmental engineering major.
- №6.2 Be familiar with technical standards, intellectual property rights, industrial policies and laws and regulations related to the field of environmental engineering.
- №6.3 Be able to identify, quantify, analyze and evaluate the social, health, safety, legal and cultural impacts of the development and application of environmental engineering technologies and processes.
- №7. Sustainable Development of Society and Environment: Be able to understand and evaluate the impact of professional engineering practice for complex environmental science and engineering problems on sustainable development of society and environment.
- №7.1 Understand the impact of historically significant environmental events on sustainable development of society and environment.
- №7.2 Understand and evaluate the impact of professional engineering practice for complex

environmental engineering problems on the environment.

- №7.3 Master the evaluation methods of the impact of professional engineering practice for complex environmental engineering problems on sustainable development of society.
- №8. Professional norms: Have humanities and social sciences qualities, social responsibility, be able to understand and comply with the ethics and norms of the engineering profession and fulfill the responsibilities in the practice of environmental science and engineering.
- №8.1 Understand the basic significance of worldview and outlook on life and their implications.
- №8.2 Understand the path of sustainable development and individual responsibility.
- №8.3 Understand the broader societal context in which engineering projects are implemented.
- №8.4 Cultivate a strong foundation in the humanities and social sciences..
- №8.5 Develop personal physical fitness and perseverance, develop a sense of public welfare, and improve professionalism and a sense of social responsibility.
- №8.6 Participate in various professional practice activities, develop good engineering ethics and fulfill responsibilities.
- №9. Individual and Collaborative Team Work: Be able to effectively play a role as an individual, member or leader against a multidisciplinary background.
- №9.1 Understand the role of the individual in a multidisciplinary team and be able to collaborate with team members.
- №9.2 Be able to coordinate team members in group activities and possess a certain level of leadership skills.
- №10. Communication: Be able to effectively communicate and exchange complex environmental science and engineering issues with industry peers and the general public, including report and document writing, presentations, clear expression, or response to instructions, and possess a certain international perspective, be able to communicate and exchange in a cross-cultural background.
- №10.1 Master a foreign language and be able to apply it against the background of environmental engineering.
- №10.2 Be able to effectively communicate and exchange complex environmental engineering issues with industry peers and the general public through oral and written methods.
- №10.3 Be able to communicate and exchange in a cross-cultural background, with a certain international perspective.
- №10.4 Be able to express personal thoughts on current international hot issues related to environmental engineering profession.
- №11. Project Management: Understand and master the principles of engineering management and economic decision-making methods, and be able to apply them in a multi-disciplinary

environment.

- №11.1 Master the basic principles and methods of engineering management.
- №11.2 Master the basic theories and methods of economic decision-making in engineering.
- №11.3 Be able to apply the principles of engineering management and economic decision-making methods to professional engineering practice.
- №12. Continuous Lifelong Learning: Possess awareness of self-directed and lifelong learning and the ability to constantly learn and adapt to development.
- №12.1 Establish the concept of the importance of lifelong learning for self-development.
- №12.2 Be able to continuously conduct self-learning and self-exercise through appropriate approaches and methods.

№12.3 Be able to demonstrate the achievement through self-learning and pave the way for lifelong learning.

Educational objectives Outcomes	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Objective 6	Objective 7
Graduation requirement 1	•						
Graduation requirement 2		•					
Graduation requirement 3		•					
Graduation requirement 4		•					
Graduation requirement 5	•	•					
Graduation requirement 6				•	•		
Graduation requirement 7				•	•		
Graduation requirement 8	•			•			
Graduation requirement 9			•				
Graduation requirement 10			•			•	
Graduation requirement 11		•		•			
Graduation requirement 12							•

Program Profile:

The Environmental Engineering program traces its origins to the disciplines of chemistry, chemical engineering, and light industry in the 1970s, and commenced undergraduate enrollment in 1998. In 2010, it was designated as a site for the development of a distinctive specialty in Guangdong Province, and in 2020, it was approved as a National First-Class Undergraduate Program Construction Site. The program has successfully passed the National Engineering Education Professional Certification on three occasions—in 2011, 2014, and 2017. Since 2013, it

has been included in the Comprehensive Reform Pilot Project administered by the Ministry of Education and has been rated as an A-discipline.

The program is supported by a first-level doctoral program in Environmental Science and Engineering, recognition as a first-level key discipline in Guangdong Province, and more than ten research platforms at or above the provincial and ministerial levels. These include the National Engineering Laboratory for Volatile Organic Pollutants Control Technology and Equipment, the Key Laboratory of Pollution Control and Ecological Restoration in Industrial Agglomeration Areas under the Ministry of Education, and the Guangdong Provincial Key Laboratory of Atmospheric Environment and Pollution Control.

The program boasts a strong faculty team, which includes 15 national and provincial high-level talents, with 94% of the teaching staff holding senior professional titles. The teaching and research laboratories cover an area of 1,000 square meters and are equipped for specialized courses such as water pollution control engineering, air pollution control engineering, solid waste treatment and disposal, environmental engineering microbiology, physical pollution control, environmental monitoring, industrial wastewater treatment, environmental analysis, and ecological restoration. The laboratories are rationally designed and equipped with advanced instruments, including high-performance liquid chromatography, gas chromatography, ion chromatography, ultraviolet spectrophotometers, and atomic absorption spectrophotometers, with a total asset value exceeding RMB 7.3 million.

In addition, the program has established 13 off-campus practical training bases, including the Guangzhou Development Zone Water Purification Center, Guangzhou First Thermal Resources General Plant (Likeng Waste Incineration Plant), Guangzhou Shijing Sewage Treatment Plant, and Huangpi Water Purification Plant.

Program Features:

The program aims to cultivate students' engineering practical abilities by linking theory with practice and involving them in the research projects or engineering projects of the teaching faculty. Environmental engineering experts are invited to participate in the teaching of core courses and guide practical sessions. The program specializes in water pollution control engineering, atmospheric pollution control engineering, solid waste treatment and disposal, and environmental biotechnology.

Degree Conferred:

Bachelor of Engineering

Core Courses:

Fluid Mechanics and Heat Transfer II; Mass Transfer and Separation Engineering III; Introduction to Environmental Science; Water Pollution Control Engineering; Air Pollution Control Engineering; Solid Waste Treatment and Disposal; Environmental Engineering Microbiology; Environmental Quality Assessment; Environmental Chemistry; Engineering Design, Construction and Management; Comprehensive Experiment of Environmental Engineering.

Featured Courses:

Freshmen Seminars: Science and Engineering in the Environment

Bilingual Teaching Course: Atmospheric Pollution Control Engineering

Frontier Courses: Theory and Technology of Carbon Neutrality

MOOC Course: Modern Environmental Analysis Techniques

School-enterprise Cooperation Course: Water Pollution Control Engineering, Atmospheric Pollution Control Engineering, Solid Waste Treatment and Disposal, Environmental Monitoring, Environmental Planning and Management, Environmental Quality Evaluation, Environmental Ecology, Environmental Engineering Microbiology, Computer Data and Graphics Applications, Water Pollution Control Engineering Design, Atmospheric Pollution Control Engineering Design,

Solid Waste Treatment and Disposal Design

Entrepreneurship Education Course: Environmental Protection Industry Entrepreneurship

Education ("Three Ones" Course)

Labor Education Course: Production Practice

1. Registration Form of Curriculum Credits

1.1 Credits Registration Form

Course Category	Requir	rement	Cre	dits	Acade	emic Hour	s R	emarks
General Education & Basic	Comp	ulsory	42			828		
Courses	General Education		10.0			160		
Program Core Courses	Comp	pulsory 59.5			1096			
Elective Courses	Elective		13.5			216		
Total			125.0			2300		
Centralized Practice Training	Compulsory		26		3	1 weeks		
Credits Required for Graduation	125.0+26.0=151.0							
Suggested Credits for Each	1	2	3	4	5	6	7	8
Semester	20.5	23	23	23	23.5	21	6	11

Note: Students must complete the required credits of the professional teaching plan and obtain 5 credits of humanities education and 4 credits of innovation and entrepreneurship education in the Extracurricular Learning before graduation.

1.2 Category statistical table

	Academic Hours				Credits							
	Include Include		Include			Include			Include			
Total	Com pulso ry	Elect ive	Theor y Cours e	Lab	Total	Com pulso ry	Elect ive	Centrolize d Practice Training	Theo ry Cour se Credi ts	Lab	Innovation and Entrepreneurs hip Education	
230	192 4	376	1652	648	151. 0	127. 5	23.5	26.0	104	21	2	

2. Courses Schedule

Cou	Courses	Schedule				Total Cu	ırriculuı	m Hours			
rse Cate gory	Course No.	Course Title		C/ E	Class Hours	Theoreti cal class hours	Lab Hours	Practice Hours	Other Hours	Credit s	Semester
	044101382	Academic English (I)	For	С	48	48				3.0	1
	044102453	Academic English (II)	English A class	С	48	48				3.0	2
	044103681	College English (I)	For	С	48	48				3.0	1
		College English (II)	English B and C class	С	48	48				3.0	2
	052100332	1 ()		С	36				36	1.0	1
	052100012	Sports (II)		С	36				36	1.0	2
		Sports (III)		С	36				36	1.0	3
G	052100062	Sports (IV)		C	36				36	1.0	4
ene	006100111	Military theory			36	18			18	2.0	2
ral	045101644	University computer basics			32				32	0.0	1
Edι		Python language programming			40	32			8	2.0	2
ıca		Calculus I (I)			80	80				5.0	1
l tio	040100662	Calculus I (II)			64	64				4.0	2
n & E	040100401	Linear algebra and analytic geometry			48	48				3.0	1
General Education & Basic Courses	055101781	Probability theory and mathematical statistics			48	48				3.0	2
	041100582	College physics I (I)		С	48	48				3.0	2
rs	041101391	College physics I (II)		С	48	48				3.0	3
S	041100671	College physics experi		С	32		32			1.0	2
	041101051	College physics experi	ment (II)	С	32		32			1.0	3
		Engineering drawing (С	48	48				3.0	3
	074102173	Engineering drawing (C	32	32				2.0	4
		Humanities and social	sciences	Ge ner	128	128				8.0	
		Science and technology			32	32				2.0	
		Total		on	988	722	64		202	52	
	4Ti	4									

Note: Time spent on computer learning and practice can be included in the total hours.

2. Courses Schedule

Co	. Courses S	Schedule			Total Cu	rriculur	n Hours	3		
urs e Cat ego ry	Course No.	Course Title	C/E	Class Hours	Theoretic al class hours	Lab Hours	Practice Hours	Other Hours	Credi ts	Sem ester
	069100773	Introduction to environmental science	С	32	32				2.0	1
	037102522	Inorganic chemistry I	С	32	32				2.0	1
	037101622	Inorganic chemistry experiment (engineering) (I)	С	16		16			0.5	1
	037101632	Inorganic chemistry experiment (engineering) (II)	С	16		16			0.5	2
	037101791	Organic chemistry I	С	48	48				3.0	2
	037102571	Organic chemistry experiment I	С	32		32			1.0	2
	033100573	Engineering mechanics I	С	48	42	2		4	3.0	3
	037102611	Analytical chemistry I	С	32	32				2.0	3
	037102651	Analytical chemistry experiments II	С	32		32			1.0	3
	069100783	Environmental engineering microbiology	С	32	32				2.0	3
P	069101951	Environmental engineering for microbiology experiments	С	16		16			0.5	3
rogi	069101921	Technical economics	С	32	32				2.0	3
Program Core Courses	069102281	Scientific and technological literature retrieval and paper writing	С	32	32				2.0	4
urses	069100573	Environmental planning and management	С	32	32				2.0	4
	024100213	Electrician and electronic technology II	С	64	64				4.0	4
	024100141	Electrician and electronic technology experiments	С	24		24			1.0	5
	037101531	Physical chemistry I	С	48	48				3.0	4
	037102001	Physical chemistry experiments II	С	32		32			1.0	5
	069100681	Physical pollution control	С	32	28	4			2.0	5
	069100741	Solid waste treatment and disposal	С	32	32				2.0	5
	069101961	Solid waste treatment and disposal experiment	С	16		16			0.5	5
	069101361	Environmental monitoring	С	32	32				2.0	5
	069102021	Environmental monitoring experiment	С	16		16			0.5	5
	069101191	Water pollution control project	С	64	64				4.0	5
	069101941	Water pollution control engineering experiment	С	16		16			0.5	6

Co						Total Cu	rriculur	n Hours	3		
e Cat ego ry	Course No.	Course Title		C/E	Class Hours	Theoretic al class hours	Lab Hours	Practice Hours	Other Hours	Credi ts	Sem ester
	037100303	Fluid mechanics and heat II	transfer	С	48	48				3.0	5
	037100271	Mass transfer and separati engineering III		С	48	48				3.0	6
	047101721	Fluid dynamics and heat to experiments	ransfer	С	16		16			0.5	5
	047101731	Mass transfer and separation engineering experiments	on for	С	16		16			0.5	6
	069100321	Atmospheric pollution cor project	ntrol	С	48	48				3.0	6
	069102001	Atmospheric pollution corengineering experiment	ntrol	С	16		16			0.5	6
	069100291	Environmental quality val	uation	С	32	32				2.0	6
	069102011	Comprehensive experiment environmental engineering		С	32		32			1.0	6
	069102251	Engineering design, const and management	ruction	С	32	32				2.0	6
		Total		С	1096	790	302		4	59.5	
	069101541	Science and engineering in the environment			16	16				1.0	1
	069101441	Environment and human civilization	Choose one out	Е	16	16				1.0	1
	069102181	Development and prospect of water supply and drainage industry	three		16	16				1.0	1
	069101042	Environmental ecology		Е	32	32				2.0	3
El	069100693	Environmental chemistry		Е	32	32				2.0	4
Elective Courses	069101292	Environmental statistics		Е	24	24				1.5	4
ve C	069100651	Marine environmental pro	tection	Е	24	24				1.5	4
ours	069100383	Hydraulics		Е	48	48				3.0	4
es	069100952	Civil engineering basics		Е	24	24				1.5	4
	069100751	Environmental economics		Е	32	32				2.0	5
	069100922	Modern environmental an techniques	alysis	Е	32	32	16			1.5	5
	069100972	Water supply and drainage network system	e pipe	Е	40	40				2.5	5
	069101201	Energy and the environme	ent	Е	32	32				2.0	6
	069102301	Carbon neutralization the technology		Е	24	24				1.0	6
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Co					Total Cu	riculur	n Hours			
e Cat ego ry	Course No.	Course Title	C/E	Class Hours	Theoretic al class hours	Lab Hours	Practice Hours	Other Hours	Credi ts	Sem ester
	069100331	Environmental remediation technology	Е	32	32				2.0	6
	069102211	Water engineering instrumentation and control	Е	24	24				1.5	6
	069100521	Environmental science and engineering major in English	Е	16	16				1.0	6
	069101982	Computer data and graphics applications	Е	32	32			32	2.0	6
	069102071	Environmental nanomaterials	Е	24	24				1.5	6
	069101211	Entrepreneurship education in environmental protection industry	Е	16	16				1.0	6
	069100352	Environmental law	Е	24	24				1.5	7
•	069100562	Soil environment	Е	24	24				1.5	7
	069101381	Environmental toxicology	Е	32	32				2.0	7
	069101101	Environmental information system	Е	24	24				1.5	7
	069100762	Environmental management	Е	24	24				1.5	7
	069101871	Industrial wastewater treatment process and design	Е	32	32				2.0	7
	069101391	Indoor environment detection and control	Е	24	24				1.5	7
	020100051	Innovative research training	Е	32	32				2.0	7
	020100041	Innovative research practice I	Е	32	32				2.0	7
	020100031	Innovative research practice II	Е	32	32				2.0	7
	020100061	Entrepreneurship practice	Е	32	32				2.0	7
	Total			Minimum requirement for elective courses is 13.5 credits						

Note: Students can apply for a certain number of professional elective credits based on their research training projects, discipline competitions, publications, patents, and independent entrepreneurship (such as innovative research training, innovation research practice I, innovation research practice II, and entrepreneurship practice). The total number of credits for professional elective courses that can be applied for by each student shall not exceed 4 credits. Projects and competitions recognized and approved by the University as elective credits will not receive corresponding innovation credits in the Extracurricular Learning.

3. Centralized Practice Training

Course No			Total Curricu	ılum Hours		Semester	
	Course Title	C/E	Practice weeks	Lecture Hours	Credits		
069100241	Understanding of internship	С	1 week		1.0	2	
030100702	Production practice I	С	2 weeks		2.0	4	
023100041	Innovative experiment in electronic technology	С	1 week		1.0	5	

069100111	Environmental monitoring practice	С	2 weeks	2.0	5
069102051	Solid waste treatment and disposal design		2 weeks	2.0	6
069100251	Water pollution control engineering design	C 2 weeks		2.0	6
069100841	Atmospheric pollution control engineering design	С	2 weeks	2.0	7
069101371	Graduation internship	С	2 weeks	2.0	8
069100473	Graduation project	С	15 weeks	10.0	8
	Total			26.0	

4. "Extracurricular Learning" Activities

"Extracurricular Learning" Activities are comprised of two parts, Humanities & Social Sciences Education and Innovation & Entrepreneurship Development.

(1) Basic Requirements of Humanities & Social Sciences Education

In addition to obtaining the required credits of the professional teaching plan, students should also participate in extracurricular humanities education activities according to their interests, accumulating no less than 5 credits. Among them, the university sports teaching team offers extracurricular sports courses, which are mandatory for senior undergraduate students, corresponding to 72 hours and 1 credit, which is included in the Extracurricular Learning humanities education credits. The university mental health education course, corresponding to 2 credits, is offered in the virtual third semester and included in the Extracurricular Learning humanities education credits.

(2) Basic Requirements of Innovation & Entrepreneurship Development

Besides gaining course credits listed in one's subject teaching curriculum, a student is required to participate in any one of the following activities: National Undergraduate Training Programs for Innovation and Entrepreneurship, Guangdong Undergraduate Training Programs for Innovation and Entrepreneurship, Student Research Program (SRP), One-hundred-steps Innovative Program, or any other extracurricular activities of Innovation & Entrepreneurship Development that last a certain period of time (e.g. subject contests, academic lectures), acquiring no less than four credits.