

核工程与核技术

Nuclear Engineering and Technology

专业代码：082201

学 制： 4 年

Program Code:082201

Duration: 4 years

培养目标:

培养热爱祖国，坚持走社会主义道路，适应经济、科技、社会发展需要，德智体全面发展，具有扎实的数学和物理、化学方面的基础理论知识，具备核工程与核技术专业理论基础，系统掌握核反应堆工程与核技术的专业知识，获得核工程方面的实践训练，具有较强的计算机和外语应用能力，同时具有较强的自学能力、创新意识和较高的综合素质，能从事核工程与技术领域相关的科学研究、技术开发、工程设计及运行管理等工作的高级应用型科技人才。

Educational Objectives:

Cultivate the advanced applied science and technology talents with love for the motherland, adhering to the road of socialism, adapting to the needs of economy, science and technology and social development, having combined development in moral, intellectual and physical education and with excellent basic theory in mathematics, physics and chemistry, with a broad theoretical foundation for nuclear engineering and nuclear technology, and with a systematic knowledge of nuclear engineering and technology. Have practical training in nuclear technology and nuclear engineering and good computer and foreign language skills, together with strong self-learning ability, innovative consciousness and good comprehensive quality. And be able to engage in scientific research, technical development, engineering design and operation management in the field of nuclear engineering and technology.

毕业要求:

Student Outcomes:

№1. 工程知识：能将数学、自然科学、工程基础和专业知用于解决核工程与核技术领域的复杂工程问题。

№1. Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals and engineering specialization to the solution of complex engineering problems in the field of nuclear engineering and technology.

№2. 问题分析：能应用数学、自然科学和工程科学的基本原理，识别、表达、并通过文献研究分析核工程与核技术领域的复杂工程问题，以获得有效结论。

№2. Problem Analysis: An ability to identify, formulate and analyze complex engineering problems in the field of nuclear engineering and technology, reaching to substantiated conclusions using basic principles of mathematics, science, and engineering.

№3. 设计/开发解决方案：能设计针对核工程与核技术问题的解决方案，设计满足特定需求的系统、单元（部件）或工艺流程，并能在设计环节中体现创新意识，考虑社会、健康、安全、法律、文化以及环境等因素。

№3. Design / Development Solutions: An ability to design solutions for complex engineering problems in the field of nuclear engineering and technology, and innovatively design systems, components or process that meet specific needs with societal, public health, safety, legal, cultural and environmental considerations.

№4. 研究：能够基于科学原理并采用科学方法对核工程与核技术领域中的复杂工程问题进行研究，包括设计实验、分析与解释数据、并通过信息综合得到合理有效的结论，能够创造性地利用核工程与核技术基本原理解决实践和工业需求问题。

№4. Research: An ability to conduct investigations of complex engineering problems in the field of nuclear engineering and technology based on scientific theories and adopting scientific methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions, can creatively use the basic principles of nuclear engineering and technology to solve the practice and industrial demand problems.

№5. 使用现代工具：能针对核工程与核技术领域的复杂工程问题，开发、选择与使用恰当的技术、资源、现代工程工具和信息技术工具，包括对复杂工程问题的预测与模拟，并能够理解其局限性。

№5. Applying Modern Tools: An ability to create, select and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering activities in the field of nuclear engineering and technology, with an understanding of the limitations.

№6. 工程与社会：能基于工程相关背景知识进行合理分析，评价专业工程实践和复杂工程问题解决方案对社会、健康、安全、法律以及文化的影响，并理解应承担的责任。

№6. Engineering and Society: An ability to apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.

№7. 环境和可持续发展：能理解和评价针对核工程与核技术领域的工程实践对环境、社会可持续发展的影响。

№7. Environment and Sustainable Development: An ability to understand and evaluate the impact of professional nuclear engineering and technology field's engineering solutions in environmental and societal contexts and demonstrate knowledge of and need for sustainable development.

№8. 职业规范：具有人文社会科学素养、社会责任感，能够在工程实践中理解并遵守工程职业道德和规范，履行责任。

№8. Professional Standards: An understanding of humanity science and social responsibility, being able to understand and abide by professional ethics and standards responsibly in engineering practice.

№9. 个人和团队：能在多学科背景下的团队中承担个体、团队成员以及负责人的角色。

№9. Individual and Teams: An ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

№10. 沟通：能就核工程与核技术领域的复杂工程问题与业界同行及社会公众进行有效沟通和交流，包括撰写报告和设计文稿、陈述发言、清晰表达或回应指令。并具备一定的国际视野，能够在全球化的跨文化背景和环境里保持清晰意识，能有效沟通和交流，有竞争力地、负责地行使自己的职责。

№10. Communication: An ability to communicate effectively on complex engineering problems in the field of nuclear engineering and technology with the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions, and Have a certain international perspective, be able to maintain a clear sense in a global cross-cultural background and environment and effective communication, competitively and responsibly exercise their duties.

№11. 项目管理：理解并掌握核工程与核技术领域工程管理原理与经济决策方法，并能在多学科环境中应用。

№11. Project Management: Demonstrate knowledge and understanding of engineering management principles and methods of economic decision-making in the field of nuclear engineering and technology, to function in multidisciplinary environments.

№12. 终身学习：能够胜任相关单位从事研究、规划、及技术改进、设计、施工和运行管理工作，具有自主学习和终身学习的意识，有不断学习和适应发展的能力。

№12. Lifelong Learning: Able to work for the relevant units engaged in research, planning, and technical improvement, design, construction and operation management, with independent learning and lifelong learning awareness, have the ability to continue to learn and adapt to development.

专业简介：

本专业是我校的新兴专业，自 2008 年开办以来，是学校的重点发展学科，并建有广东省能源高效清洁利用重点实验室以及核电仿真实验室，被评为广东省特色专业和国家特色专业。该专业立足华南，面向全国，与用人单位对接，可为中国广核集团订单式培养适合现代核工程与核技术发展需求的应用型高级专业人才。为突出学生的实践能力和应用能力，专业在中国广核集团设立了专业实习平台。为竭力打造华南地区核电强校，我校对该专业实施卓越工程师人才培养模式，采取中小班教学，理论教学与实践紧密结合，培养学生的理论实践和创新设计能力。

毕业生除了具有计算机、电子、机械、英语等方面的基本技能外，能够熟练掌握核工程与核技术在工程领域的应用技能。毕业生就业领域涉及国防、能源、环保、医疗等政府机关及企事业单位。

Program Profile:

Since this program's inception in 2008, it has been our university's emerging professional and key developing discipline with Guangdong province energy efficiency clean utilization key laboratory and

nuclear power simulation laboratory. This program is based in south China and oriented to all over the country, docked with the employer, aimed to training senior engineering professionals adapted to the development requirements of modern nuclear engineering and technology for the orders of China Guangdong nuclear power group, and in order to highlight the students' practical and application ability, we set up a professional practice station in the China Guangdong nuclear power group. With the aim of being the best university of south China in nuclear engineering and technology, we adopts the training mode of excellent engineers with small or middle class size in the correlated form of theory teaching and practice, and aims to cultivate students' theoretical practice and the ability of creative design.

Graduates will not only have the basic skills of computer, electronics, machinery and English, but also have good proficiency in the engineering application of nuclear engineering and technology. Graduates can be fit to the positions in the field of national defense, energy, environmental protection, health care and other government agencies and enterprises

专业特色:

本专业依托广东作为核电强省的产业优势，结合我校浓厚的工科文化背景，实行产学研一体化人才培养模式，培养具有宽广的基础理论、深厚的专业知识、博雅的人文精神、以及开阔的国际视野的核能高级专业人才。

Program Features:

This program relies on the industry advantage of Guangdong as a major nuclear power industry, combines with our strong engineering background, and implements the training mode of integration of industry, university and research. Training students to be nuclear energy senior professionals with broad basic theory, profound professional knowledge, humanistic spirit of liberal arts and broad international vision.

授予学位: 工学学士学位

Degree Conferred: Bachelor of Engineering

主干课程:

原子核物理学、核反应堆物理分析、核反应堆热工水力分析、核电站系统设备与运行、核反应堆控制、核电厂安全、工程热力学、流体力学、传热学。

Core Courses:

Nuclear Physics, Nuclear Reactor Physics Analysis, Nuclear Reactor Thermal Hydraulics Analysis, Nuclear Power Plant Systems And Equipment, Control of Nuclear Reactor, Nuclear Power Plant Safety, Engineering Thermodynamics, Fluid Dynamics, Heat Transfer.

特色课程:

双语教学课程：流体力学、工程热力学、热工过程自动调节、核电站系统设备与运行

研究型课程：核反应堆物理分析、核反应堆热工水力分析、核电厂安全、核反应堆控制、核电站系统设备与运行

新生研讨课：反应堆热工水力技术研讨

专题设计课：压水堆中子物理课程设计、压水堆热工水力课程设计

创业教育课：节能减排产业模式与创业

Featured Courses:

Bilingual Courses: Fluid Mechanics, Thermal Dynamic Engineering, Automatic Control for Thermal Processes, Equipment and Operation of Nuclear Power Systems.

Research Courses: Nuclear Reactor Physics Analysis, Nuclear Reactor Thermal Hydraulic Analysis, Safety of Nuclear Power Plant, Control of Nuclear Reactor, Equipment and Operation of Nuclear Power Systems.

Freshmen Seminars: Reactor Thermal Hydraulics Seminar.

Special Designs: Curriculum Design of Neutron Physics for PWR, Curriculum Design of Thermal Hydraulics for PWR.

一、教学计划总体安排表 (General Teaching Schedule)

学 年	学 期	教 学 进 度 安 排 (周)																		理 论 教 学	考 试	入 学 教 育	军 训	课 程 设 计	大 作 业	工 程 训 练	电 子 实 习	综 合 实 验	社 会 实 践	生 产 实 习	毕 业 实 习	其 它 实 习	中 外 合 作 项 目	毕 业 设 计	就 业 安 排	机 动	假 期	小 计			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																				19	20	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R																						
一	1		C	A	A	A	A	A	A	A	A	A	A	A	A	A	B	D	D	D	14	1	1	3											19						
	2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Q	B	B	J	16	2											1		20						
二	3	G	G	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	16	2													20						
	4	H	H	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	K	K	15	1													20						
三	5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	E	E	16	2													20						
	6	A	A	A	A	A	A	A	A	A	A	A	A	A	B	E	E	L	L	L	14	1													20						
四	7	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	E	E	16	2													20							
	8	O	O	O	O	O	O	O	O	O	O	O	O	O	Q	Q	Q	P	P														15	2	3		20				
合 计 (周)																			107	11	1	3	6		2	2		1	2	3							15	2	4		159

二、各类课程学分登记表 (Registration Form of Curriculum Credits)

1. 学分统计表 (Credits Registration Form)

课程类别 Course Category	课程要求 Requirement	学分 Credits	学时 Academic Hours	备注 Remarks
公共基础课 General Basic Courses	必修 Compulsory	70.5	1100	
	通识 General Education	10.0	160	
学科基础课 Disciplinary Basic Courses	必修 Compulsory	40.5	658	
	选修 Elective	0.0	0	
专业领域课 Specialty-related Courses	必修 Compulsory	14.0	224	
	选修 Elective	9.0	144	
合 计 Total		144.0	2286	
集中实践教学环节 (周) Practice Training (Weeks)	必修 Compulsory	35.0	35 周	
毕业学分要求 Credits Required for Graduation	144.0+35.0=179.0			

备注：学生在取得专业教学计划规定学分的同时，还必须取得第二课堂 2 个人文素质教育学分和 4 个创新能力培养学分。

2.类别统计表 (Category Registration Form)

学时 Academic Hours					学分 Credits						
总学时数 Total	其中 Include		其中 Include		总学分数 Total	其中 Include		其中 Include			其中 Include
	必修学时 Compulsory	选修学时 Elective	理论教学学时 Theory Course	实验教学学时 Lab		必修学分 Compulsory	选修学分 Elective	集中实践教学环节学分 Practice-concentrated Training	理论教学学分 Theory Course Credits	实验教学学分 Lab	创新创业教育学分 Innovation and Entrepreneurship Education
2286	1982	304	1974	312	179	160	19	35	134	10	20

三、专业教学计划表 (Teaching Schedule)

类别 Course Category	课程 代码 Course No.	课程名称 Course Title	是否 必修 C/E	学时数 Total Curriculum Hours				学分 数 Credits	开课 学期 Semester	毕业 要求 Student Outcomes
				总学 时 Class Hours	上机 Computer-ai ded Class Hours	实验 Lab Hours	实践 Practic e Hours			
公共基础课 General Basic Courses	143093	思想道德修养与法律基础 Cultivation of Thought and Morals & Fundamental of Law	必修 课 C	(40) (36)				2.5	2	№8
	143091	中国近现代史纲要 Skeleton of Chinese Modern History		(32) 24				2.0	1	№8
	143106	毛泽东思想和中国特色社会主义理论体系概论 Thought of Mao ZeDong and Theory of Socialism with Chinese Characteristics		(80) 48				5.0	3	№8
	143090	马克思主义基本原理 Fundamentals of Marxism Principle		(40) 36				2.5	4	№8
	143094	形势与政策 Analysis of the Situation & Policy		(128)				2.0	1-8	№8
	144001	大学英语(一) College English(1)		64				4.0	1	№10
	144002	大学英语(二) College English(2)		64				4.0	2	№10
	145223	大学计算机基础 Foundations of Computer		32				2.0	1	№5
	152001	体育(一) Physical Education (1)		32			32	1.0	1	№12
	152002	体育(二) Physical Education (2)		32			32	1.0	2	№12
	152003	体育(三) Physical Education (3)		32			32	1.0	3	№12
	152004	体育(四) Physical Education (4)		32			32	1.0	4	№12
	106001	军事理论 Military Principle		(16)				1.0	2	№9
	130137	画法几何及机械制图(一) Descriptive Geometry & Machine Graphing (1)		48				3.0	1	№1, 5
	130138	画法几何及机械制图(二) Descriptive Geometry & Machine Graphing (2)		64				4.0	2	№1, 5
	140191	微积分 II(一) Calculus II (1)		80				5.0	1	№1, 2
	140192	微积分 II(二) Calculus II (2)		80				5.0	2	№1, 2
	140197	线性代数与解析几何 Linear Algebra & Analytic Geometry		48				3.0	1	№1
	140019	概率论与数理统计 Probability Theory and Mathematical Statistics		48				3.0	2	№1, 2
	140015	复变函数 I Functions of a Complex Variable I		32				2.0	3	№1, 2
140016	积分变换 Integral Transformation	16				1.0	3	№1, 2		
141005	大学物理III(一) College Physics II (1)	64				4.0	2	№1		
141006	大学物理III(二) College Physics II (2)	64				4.0	3	№1		

	141007	大学物理实验(一) Laboratory Experiments of College Physics(1)		32		32		1.0	2	№1, 2
	141008	大学物理实验(二) Laboratory Experiments of College Physics(2)		32		32		1.0	3	№1, 2
	147045	大学化学 College Chemistry		32				2.0	1	№1
	147036	大学化学实验 Laboratory Experiments in College Chemistry		16		16		0.5	2	№1, 2
	145269	C++程序设计基础 Fundamentals of C++ Programming		48				3.0	2	№5
		人文科学领域 Humanities	通识课 E	96				6.0	1	№8
		社会科学领域 Social Science		64				4.0	2	№8
		合计 Total		1260		80	128	80.5		

三、专业教学计划表（续）（Teaching Schedule）

类别 Course Category	课程代码 Course No.	课程名称 Course Title	是否必修 C/E	学时数 Total Curriculum Hours				学分 Credits	开课学期 Semester	毕业要求 Student Outcomes
				总学时 Class Hours	上机 Computer-aided Class Hours	实验 Lab Hours	实践 Practice			
学科基础课 Disciplinary Basic Courses	134192	反应堆热工水力技术研讨 Reactor Thermal Hydraulics Seminar	必 C	16				1.0	1	№1,2,10
	133248	工程力学III Engineering Mechanics(3)	必 C	80				5.0	3	№1,2
	135026	电工与电子技术 I Electrical & Electronic Technology	必 C	72		24		4.0	4	№1,2
	130070	互换性与技术测量 Interchangeability and Technical Measurement	必 C	24				1.5	4	№1,
	140045	数学物理方程 Equations of Mathematical Physics	必 C	32				2.0	4	№1,2
	131058	机械设计基础 Fundamentals of Mechanical Design	必 C	64				4.0	6	№1,2
	130310	机械基础综合实验 I Comprehensive Experiment of Mechanical Foundation(1)	必 C	10		10		0.5	6	№1,3
	134022	工程热力学 Engineering Thermodynamics	必 C	64		4		4.0	4	№1-2
	134023	传热学 Heat Transfer	必 C	64		4		4.0	5	№1-2
	134090	流体力学 Fluid Mechanics	必 C	64				4.0	5	№1-2
	134141	核反应堆物理分析 Nuclear Reactor Physics Analysis	必 C	64				4.0	5	№1~4,7,11,12
	134161	原子核物理学 Nuclear Physics	必 C	40				2.5	4	№1~4
	134128	学科发展前沿讲座 Lectures on the Development of Disciplines	必 C	32				2.0	5	№1~4,7,12
	134143	核工程与核技术概论 Introduction to Nuclear Engineering and Technology	必 C	32				2.0	4	№1~4,7,11,12
		合计 Total	必 C	658		42		40.5		

类别 Course Category	课程 代码 Course No.	课程名称 Course Title	是否 必修 C/E	学时数 Total Curriculum Hours				学分 数 Credits	开课 学期 Semester	毕业 要求 Student Outcomes
				总学时 Class Hours	上机 Computer-aided Class Hours	实验 Lab Hours	实践 Practice			
专业领域课 Specialty- related Courses	134144	核电厂安全 Safety of Nuclear Power Plant	必 C	32				2.0	6	№1,6,7,12
	134031	汽轮机原理 Principle of Steam Turbines	必 C	48				3.0	6	№1~3,5,7
	134145	核反应堆热工水力分析 Nuclear Reactor Thermal Hydraulic Analysis	必 C	48		2		3.0	5	№1~4,7,11, 12
	134147	核反应堆控制 Control of Nuclear Reactor	必 C	32		4		2.0	6	№1~4,7,11, 12
	134193	核电站系统设备与运行 Equipment and Operation of Nuclear Power Systems	必 C	64		8		4.0	6	№1~4,7,11, 12
	134157	核辐射防护基础 Nuclear Radiation Protection Foundation	选 E	32				2.0	7	№1~4,7, 12
专业领域课 Specialty- related Courses	134053	锅炉原理 Principle of Boiler	选 E	48				3.0	6	№1-4
	134035	热工过程自动调节 Automatic Adjustment of Thermal Process	选 E	48		10		3.0	7	№1-4
	134089	泵与风机 Pump & Fan	选 E	32				2.0	6	№1~3,4,7
	134156	核反应堆燃料管理 Nuclear Reactor Fuel Management	选 E	32				2.0	6	№1~4,7
	134033	热力发电厂 Thermal Power Stations	选 E	48				3.0	7	№1~4
	134182	节能减排产业模式与创业 Energy Saving & Emission Reduction Industry Model & Entrepreneurship	选 E	32				2.0	6	№1~12
	134158	核反应堆动力学 Nuclear Reactor Kinetics	选 E	48				3.0	5	№1~4,7, 12
	134078	换热器原理与设计 Principle & Design of Heat Exchanger	选 E	32				2.0	5	№1~5
	134137	热工测量及仪表 Thermal Measurement & Instrumentation	选 E	48		3		3.0	7	№1~12
	134026	计算机辅助设计 Computer-aided Design	选 E	32	16			1.5	5	№1-5
	134199	新能源与可再生能源概论 Introduction to New Energy & Renewable Energy	选 E	32				2.0	3	№1,6,7,12
	134200	实验数据分析处理与科技绘图 Analysis and Process of Experimental Data, Technology Drawing	选 E	48	16			2.5	5	№1-5

类别 Course Category	课程 代码 Course No.	课程名称 Course Title	是否 必修 C/E	学时数 Total Curriculum Hours				学分 数 Credits	开课 学期 Semester	毕业 要求 Student Outcomes
				总学时 Class Hours	上机 Computer-aided Class Hours	实验 Lab Hours	实践 Practice			
				134201	科技英语阅读与写作 English Reading and Writing for Science and Technology	选 E	48			
134185	核电仿真综合实验 Nuclear Power Simulation Experiment	选 E	48		48		1.5	6	№1~5,7,12	
	核电厂可靠性工程 Nuclear Power Plant Reliability Engineering	选 E	32				2.0	5	№1~4,7,12	
	核电厂实物保护系统 Physical Protection System of Nuclear Power Plant	选 E	32				2.0	6	№1~4,7,12	
120003	创新研究训练 Innovation Research Training	选 E	32				2.0		№1-5	
120004	创新研究实践 I Innovation Research Practice 1	选 E	32				2.0		№1-5	
120005	创新研究实践 II Innovation Research Practice 2	选 E	32				2.0		№1-5	
120006	创业实践 Entrepreneurial Practice	选 E	32				2.0		№1-5	
	合计 Total	必 C	224		14		14.0			
		选 E	选修课修读最低要求 9.0 学分 minimum elective course credits required:							

备注：学生根据自己开展科研训练项目、学科竞赛、发表论文、获得专利和自主创业等情况申请折算为一定的专业选修课学分（创新研究训练、创新研究实践 I、创新研究实践 II、创业实践等创新创业课程）。每个学生累计申请为专业选修课总学分不超过 4 个学分。经学校批准认定为选修课学分的项目、竞赛等不再获得对应第二课堂的创新学分。

四、集中实践教学环节(Practice-concentrated Training)

课程 代码 Course No	课程名称 Course Title	是否 必修 C/E	学时数 Total Curriculum Hours		学分数 Credits	开课 学期 Semester	毕业要求 Student Outcomes
			实践 Practice weeks	授课 Lecture Hours			
			106002	军训 Military Training			
143197	马克思主义理论与实践 Marxism Theory and Practice	必 C	2 周		2.0	假期	№8
130356	工程训练 I Engineering Training(1)	必 C	2 周		2.0	3	№3
141073	电子工艺实习 II Electronic Technology Practice (2)	必 C	2 周		2.0	4	№3
134083	社会实践 Social Practice	必 C	1 周		1.0	2	№8
134064	生产实习 Production Practice	必 C	2 周		2.0	4	№3

130195	机械设计基础课程设计 Curriculum Design for Fundamentals of Mechanical Design	必 C	2 周		2.0	6	№1
134183	压水堆中子物理课程设计 Curriculum Design of Neutron Physics for PWR	必 C	2 周		2.0	7	№4
134184	压水堆热工水力课程设计 Curriculum Design of Thermal Hydraulics for PWR	必 C	2 周		2.0	7	№4
134080	毕业实习 Graduation Practice	必 C	2 周		2.0	6	№3
134091	毕业设计 Graduation Project	必 C	15 周		15.0	8	№2, №3, №4
合 计 Total		必 C	35 周		35.0		

五、第二课堂

第二课堂由人文素质教育和创新能力培养两部分组成。

1.人文素质教育基本要求

学生在取得专业教学计划规定学分的同时，还应结合自己的兴趣适当参加课外人文素质教育活动，参加活动的学分累计不少于 2 个学分。

2.创新能力培养基本要求

学生在取得本专业教学计划规定学分的同时，还必须参加国家创新创业训练计划或广东省创新创业训练计划或 SRP（学生研究计划）或百步梯攀登计划或一定时间的各类课外创新能力培养活动（如学科竞赛、学术讲座等），参加活动的学分累计不少于 4 个学分。

5.“Second Classroom” Activities

“Second Classroom” Activities are comprised of two parts, Humanities Quality Education and Innovative Ability Cultivation.

1)Basic Requirements of Humanities Quality Education

Besides gaining course credits listed in one’s subject teaching curriculum, a student is required to participate in extracurricular activities of Humanities Quality Education based on one’s interest, acquiring no less than two credits.

2)Basic Requirements of Innovative Ability Cultivation

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 Innovative Ability Cultivation that last a certain period of time (e.g. subject contests, academic lectures), acquiring no less than four credits.