

# 信息工程

## Information Engineering

专业代码：080706

学 制：4 年

Program Code: 080706

Duration: 4 years

### 培养目标：

培养具有高素质、高层次、国际化的“三创型”人才，且能适应经济、科技和社会发展需要的、获得工程师基本训练和具有综合知识的信息工程专业技术人才。学生毕业后，可以到电信部门、电子工程企业、商业部门、财税、金融和机关、科研机构等单位，从事计算机网络、通信网络，无线通信、光纤通信、电子工程的设计、研究、开发和管理等工作。

### Educational Objectives:

We foster a high-quality, high-level, internationalization "three hit" type talents, who can meet the need of economic, technological and social development, obtaining basic training for engineers and having comprehensive knowledge of information engineering. After graduation, students can go to the telecommunications sector, electronic engineering enterprises, business sector, finance and taxation, finance and institutions, research institutions and other units, engaged in computer networks, communications networks, wireless communications, optical fiber communications, electronic engineering design, research, development and management and so on.

### 毕业要求：

№1.工程知识：掌握扎实的基础知识、专业基本原理、方法和手段，能够将数学、自然科学、本专业基础知识和专业知识用于解决复杂工程问题，并接触和掌握电子行业部分营运知识，为解决企业电子工程实际复杂问题打下知识基础。

№2.问题分析：能够应用数学、自然科学、本专业的基本原理、方法、手段和电子行业营运知识，识别、表达、并通过文献研究分析电子工程中的复杂问题，以获得有效结论。

№3.设计/开发解决方案：能够设计针对电子工程复杂问题的解决方案，设计满足特定需求的电子系统、单元（部件）或工艺流程，并能够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。

№4.研究：能够基于科学原理并采用科学方法对电子工程复杂问题进行研究，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。

№5.使用现代工具：能够针对复杂电子工程问题，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，包括对电子工程复杂问题的预测与模拟，并能够理解其局限性。

№6.工程与社会：能够基于电子工程相关背景知识进行合理分析，评价电子工程实践和电子工程复杂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。

№7.环境和可持续发展：能够理解和评价针对电子工程复杂问题的工程实践对环境、社会可持续发展的影响。

№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。

№9.个人和团队：能够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。

№10.沟通：能够就电子工程复杂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，能够在跨文化背景下进行沟通和交流。

№11.项目管理：理解并掌握电子工程管理原理与经济决策方法，并能在多学科环境中应用。

№12..终身学习：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。

### **Student Outcomes:**

№1.Master solid professional basic knowledge, basic principle, method and means, and apply mathematics, natural science, the professional knowledge and professional knowledge to solve complex engineering problems, and exposure and master some operating knowledge in electronics industry and set the knowledge foundation to solve the actual complex problems of enterprise electronic engineering.

№2.Problem Analysis: An ability to identify, formulate and analyze complex electronic engineering problems, reaching to substantiated conclusions using basic principles of mathematics, science, the basic principle of this major, operating method ,means and electronic industry knowledge .

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

№4.Research: An ability to conduct investigations of complex electronic engineering problems 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.

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

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

№7.Environment and Sustainable Development: An ability to understand and evaluate the impact of engineering practice to professional complex electronic engineering problems in environmental and societal contexts and need for sustainable development.

№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.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.Communication: An ability to communicate effectively on complex electronic engineering problems with the engineering community and with 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 communicate in cross-cultural contexts with international perspective.

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

№12.Lifelong Learning: A recognition of the need for, and an ability to engage in independent and life-long learning with the ability to learn continuously and adapt to new developments.

## **专业简介：**

信息工程专业可追溯到 1952 年，属于通信与信息系统学科，已有 60 多年办学历史，历经电讯工程、无线电工程等专业名称变迁，作为建国后部属高校中首批设立的电类本科专业，在著名电子学家、教育家冯秉铨教授的带领下，为我国，尤其是华南地区电子信息产业培养了一大批引领企业发展的高素质专业人才，如 TCL 总裁李东生、七喜董事长易贤忠、京信通信董事局主席霍东龄等。

当前，根据国家与区域产业重大需求，形成移动超声探测、空地海一体化网络、人体数据科学、射频技术与半导体新器件等 4 大学科重点发展方向，拥有国家移动超声探测工程技术研究中心、近距离无线通信与网络教育部工程研究中心、广东省短距离无线探测与通信重点实验室、无线通信网络与终端广东省教育厅重点实验室、广东省人体数据科学工程技术研究中心、广东高校音视频图文智能信息处理工程技术研究中心。

继承冯秉铨教授注重教学改革的传统，长期承担学校教育教学改革探索试点，成效显著，在五年一次的国家级教学成果奖评选中，连续两届获国家级教学成果二等奖。学院拥有国家级实验教学示范中心、国家级人才培养模式创新实验区、国家集成电路人才培养基地、国家工程实践教育中心、国家级教学团队，这些为创新人才培养提供保障。

学生培养得到产业界鼎力支持，目前已与 TCL、中国移动、中国电信、中国联通、中兴通讯、京信通信、中广核集团、南方电网、中国人保、微软亚洲研究院、三星广州研究院等信息产业龙头企业共建企业实习基地。

## **Program Profile:**

Information engineering belongs to communication and information system discipline, nearly 60 years' history. Information engineering profession has changed by major name of telecommunication engineering, radio engineering, the specialty is first set up as an electrical undergraduate by the affiliated universities after the founding of China. Under the leadership of Professor Feng Bingquan who was the famous

electronic scholar and educator in China, especially in Southern China electronic information industries have cultivated a large number of high-quality professionals in the development of leading enterprises such as president of TCL Li Dongsheng, seven-up chairman Yi Xianzhong, chairman of the board of directors Huo Dongling comba.

At present, according to the national and regional industrial demand, forming key developing direction of 4 subjects, mobile ultrasonic detection, sea and air integrated network ,human data science, Radio frequency technology and new semiconductor devices, the specialty has a national mobile ultrasonic detection technology research center, the short distance wireless communication and network engineering research center of Ministry of education, Guangdong province short distance wireless detection and communication laboratory, wireless communication network and terminal Key Laboratory of Guangdong Province, Guangdong Province Department of education human data science engineering technology research center, Guangdong University of audio and video graphic intelligent information processing engineering technology research center.

Traditional inheritance Feng Bingquan professor teaching reform, long-term to undertake school education teaching reform to explore pilot, fruitful, within five years of teaching achievement prizes at the national, two successive won the second prize of national teaching achievements. College has a national experimental teaching demonstration center, the national talented person training mode innovation experimental area, national IC talent training base, national engineering practice education center, the national teaching team, these provide safeguard for the innovative talent training.

The students are supported by the industries, and we has co-constructed enterprise practice bases with those information industry leading enterprises like TCL, China Mobile, China Telecom, Chinese Uni-com, ZTE, telecom, China Guangdong Nuclear Power Group, China Southern Power Grid, Chinese Paul, Microsoft Asia Research Institute, Guangzhou Institute of Samsung.

### **专业特色:**

信息工程专业紧跟产业热点，形成移动超声探测、空地海一体化网络、人体数据科学、射频技术等 4 大学科重点发展方向。本专业注重综合素质和创新实践能力的培养。注重教学改革，长期承担教育教学改革探索试点，成效显著，在五年一次的国家级教学成果奖评选中，连续两届获国家级教学成果二等奖。

### **Program Features:**

Information engineering profession closely follows the industry hot spots, forming the key development direction of four main subjects, mobile ultrasound detection, the integration of land and sea network, human body data science, radio frequency technology as focus. This major focus on the cultivation of comprehensive quality and innovative practice ability. The specialty also pay attention to teaching reform, long-term commitment to education and teaching reform to explore the pilot, the effect is remarkable, in

selection of national teaching achievement which was held every five years a time, we won two times second prize in consecutive national teaching achievement.

**授予学位：**工学学士学位

**Degree Conferred:** Bachelor of Engineering

**主干课程：**

电路 II、模拟电子技术 II、数字电子技术 II、信号与系统、微机系统与接口、数字信号处理、通信电子线路、电磁场与电磁波、通信原理、计算机通信网。

**Core Courses:**

Circuit, Analog Electronic Technology, Digital Electronic Technology, Signals and Systems, Microcomputer System and Interface, Digital Signal Processing, Communication Electronic Circuit, The Basis of Information Theory, Electromagnetic Field and Wave, Communication Principle, Computer Communication Network.

**特色课程：**

全英课程：信号与系统、数字电子技术 II、数字信号处理、数字系统设计、通信原理、数据结构、电磁场与电磁波

讨论型课程：电子信息学科导论

创新实践课程：电子系统综合设计

创业教育课程：电子信息行业创业基础

**Featured Courses:**

**Courses Taught in English:** Signals and Systems, Digital Electronic Technology II , Digital Signal Processing, Digital Systems Design, Communication Principle, The data structure, Electromagnetic Field and Wave

**Freshmen Seminars:** Introduction of Electronic Information Discipline

**Innovation Practice Courses:** Electronic System Design

**Entrepreneurship courses:** Basis of Electronic Information Industry Entrepreneurship

## 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	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	B	B	D	D	D	13	2	1	3												19			
	2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	18	2														20				
二	3	A	A	A	A	A	A	A	A	A	A	G	G	A	A	A	A	B	B	16	2			2											20				
	4	A	A	E	A	A	A	A	A	A	A	A	A	A	A	A	Q	B	B	16	2		1										1		20				
三	5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	E	E	B	B	16	2		1										1		20				
	6	E	E	E	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	16	2		2												20				
四	7	L	L	L	L	A	A	A	A	A	A	A	A	A	A	A	A	B	B	14	2									4					20				
	8	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	P	Q	Q													15	1	3		19			
		合 计 (周)																		109	14	1	3	4	0	2	0	0	1	0	4	0	0	15	1	5		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	65.0	1028	
	通识 General Education	10.0	160	
学科基础课 Disciplinary Basic Courses	必修 Compulsory	47.0	828	
	选修 Elective	0.0	0	
专业领域课 Specialty-related Courses	必修 Compulsory	0.0	0	
	选修 Elective	18.0	284	
合 计 Total		140.0	2300	
集中实践教学环节 (周) Practice Training (Weeks)	必修 Compulsory	35.0	175.0	
毕业学分要求 Credits Required for Graduation	140.0 + 35.0 = 175.0			

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
2300	1856	444	1912	388	175	147	28	35	128	12	11

### 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 Practice 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	1	№8
	143091	中国近现代史纲要 Skeleton of Chinese Modern History		(32) 24				2,0	2	№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
	106001	军事理论 Military Principle		(16)				1,0	2	№9
	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
	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
	130009	工程制图 Engineering Drawing		48				3,0	2	№9
	145223	大学计算机基础 Foundations of Computer		32				2,0	1	№5
	135013	高级语言程序设计III High-level Language Programming		56	16			3,0	1	№5
	140191	微积分 II (一) Calculus(1)		80				5,0	1	№1
	140192	微积分 II (二) Calculus(2)		80				5,0	2	№1
	140197	线性代数与解析几何 Linear Algebra and Analytic Geometry		48				3,0	1	№1
	140015	复变函数 Complex Variable		32				2,0	3	№1
	140019	概率论与数理统计 Probability & Mathematical Statistics		48				3,0	4	№1
	140099	数学实验 Mathematical Experiments		48	32			2,0	4	№1
	141005	大学物理 II (一) General Physics (1)		64				4,0	2	№1,2
	141006	大学物理 II (二) General Physics (2)		64				4,0	3	№1,2
	141007	大学物理实验 (一) Physics Experiment(1)		32		32		1,0	2	№1,2
	141008	大学物理实验 (二) Physics Experiment(2)		32		32		1,0	3	№1,2



	人文科学领域 Humanities	通识课 E	96				6,0		No8
	社会科学领域 Social Science		64				4,0		No8
<b>合 计</b> <b>Total</b>			1188	48	64	128	75.0		

### 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 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 Practice			
学科基础课 Disciplinary Basic Courses	135149	电子信息学科导论 Introduction of Electronic and Information	必 C	16				1.0	1	No1
	135020	电路 II Circuit Theory	必 C	64				4.0	2	No2,3
	135005	电路实验 Circuit Experiment	必 C	16		16		0.5	3	No2,3
	135034	模拟电子技术 II Analog Electronics	必 C	64				4.0	3	No2,3
	135043	模拟电子技术实验 Experiment of Analog Circuits	必 C	20		20		0.5	3	No2,3
	155081	数字电子技术 II Digital Electronics	必 C	64				4.0	3	No2,3
	135045	数字电子技术实验 Experiment of Digital Circuits	必 C	16		16		0.5	3	No2,3
	135150	微机系统与接口 Microcomputer System and Interface Technology	必 C	64		16		3.5	4	No2,3
	141017	信号与系统 Signals and Systems	必 C	64				4.0	4	No2,3
	135042	信号与系统实验 Signals and Systems Experiment	必 C	16		16		0.5	4	No2,3
	135046	通信电子线路 Communication Electronic Circuits	必 C	48				3.0	4	No2,3
	135175	通信电子线路实验 Experiment of Communication Electronic Circuits	必 C	16		16		0.5	4	No2,3
	135016	电磁场与电磁波 Electromagnetic Fields and Waves	必 C	64				4.0	4	No2,3
	135048	数字信号处理 II Digital Signal Processing	必 C	48				3.0	5	No2,3
	135096	数字信号处理实验 Digital Signal Processing Experiment	必 C	16		16		0.5	5	No2,3
	135050	数字系统设计 Digital System Design	必 C	64		16		3.5	5	No2,3,4
135093	通信原理 II Principles of Communications	必 C	56				3.5	5	No2,3	

	135189	通信原理实验 Experiment of Principles of Communications	必 C	16		16		0.5	5	№2,3
	135191	信息论与编码 Information Theory & Coding	必 C	32				2.0	5	№2,3
	135060	计算机通信网 Computer Communication Networks	必 C	48				3.0	6	№2,3
	135161	电子系统综合设计 Synthetic Design of Electronic System	必 C	16				1.0	6	№2,3,4
	<b>合 计 Total</b>			必 C	828		148		47.0	
专业领域课 Specialty-related Courses	135053	数据结构 Data Structure	选 E	56	16			3.0	2	№1,5
	140070	软件工程 Software Engineering	选 E	32				2.0	3	№2,3,5
	135154	射频电路 RF Circuits	选 E	48				3.0	5	№2,3
	135156	△ 射频电路实验 Experiments of RF Circuits	选 E	32		32		1.0	5	№2,3
	135108	光纤通信技术 Optical Fiber Communication Technology	选 E	64		16		3.5	5	№2,3
	135155	天线原理 Principle of Antenna	选 E	32				2.0	6	№2,3
	135134	嵌入式系统理论与技术 Embedded Systems Theory and Technology	选 E	48		32		2.0	6	№2,3
	135114	Linux 与嵌入式通信技术 Linux and Embedded Communication Technology	选 E	48		16		2.5	6	№2,3
	135059	移动通信 Mobile Communication	选 E	48		16		2.5	6	№2,3
	135157	数字图像处理 Digital Image Processing	选 E	40				2.5	6	№2,3,5
	135148	语音信号处理 Voice Signal Processing	选 E	48		16		2.5	6	№2,3,5
	135131	现代交换技术 Modern Switching Technology	选 E	48				3.0	6	№2,3
	135178	深度学习与计算机视觉 A deep learning tour of computer vision and pattern recognition	选 E	32				2	6	№2,3
	135128	信息安全概论 Introduction to Information Security	选 E	32				2.0	7	№2,3,6
	135147	数字视音频技术 Digital Audio Technology	选 E	64		16		3.5	7	№2,3

	数字音频侦查技术及应用 Digital Audio Detection Technology and Application	选 E	24				1.5	7	№2,3
135180	芯片互连与电磁兼容 Chip Interconnection and EMC	选 E	32				2.0	7	№2,3,5,6
135174	电子信息行业创业基础 Basis of electronic information industry entrepreneurship	选 E	16				1	7	№3,6,8,9,11
120003	创新研究训练 Innovation Research Training	选 E	32				2.0		№4,9,11
120004	创新研究实践 I Innovation Research Practice 1	选 E	32				2.0		№4,9,11
120005	创新研究实践 II Innovation Research Practice 2	选 E	32				2.0		№4,9,11
120006	创业实践 Entrepreneurial Practice	选 E	32				2.0		№4,9,11
<b>合计 Total</b>		选 E	选修课修读最低要求 18.0 学分 minimum elective course credits required: 18						

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	必 C	3 周		3.0	1	№8
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	必 C	2 周		2.0	3	№1,6
135160	高级语言程序设计课程设计 Advanced Language Programming Course Design	必 C	1 周		1.0	2	№4,5
135095	电子技术工程素质实践基础 The Engineering Experiment of Electrical and Electronic	必 C	1 周		1.0	3	№1,3
135115	模拟电子技术课程设计 Analog Electronics Design	必 C	1 周		1.0	4	№1,3
135146	微机系统与接口课程设计 Course Project of Microcomputer System and Interface Technology	必 C	1 周		1.0	4	№1,3
135117	通信电子线路课程设计 Communication Electronic Circuit Design	必 C	1 周		1.0	5	№1,3
135142	数字系统设计课程设计 Digital System Course Design	必 C	2 周		2.0	5	№1,3

135165	电子系统综合设计课程设计 Curriculum Design of the Synthetic Design of Electronic System	必 C	2 周		2.0	6	№1,3,4,5
135073	毕业实习 Graduate Intern	必 C	4 周		4.0	7	№7,8,11
135074	毕业设计 Final Year Project	必 C	15 周		15.0	8	№4,9
<b>合 计</b> <b>Total</b>		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.