

安全工程

Safety Engineering

专业代码: 082901

学 制: 4 年

Program Code: 082901

Duration: 4 years

培养目标:

本专业培养热爱祖国, 坚持社会主义道路, 德、智、体、美全面发展, 具有人文与社会科学素养、安全与健康理念、国际化视野与创新精神, 掌握必需的自然科学、工程技术的基础知识和安全科学与技术、安全生产与应急管理、职业卫生与健康等基础理论、专业知识、基本技能及学科发展动态, 具备从事机电、化工、建筑施工、消防等领域安全工程方面的设计、研究、检测、评价、监察与管理等工作能力和素质的应用创新型高级专业人才。学生毕业 5 年左右, 能够成为具备注册安全工程师素质和能力的技术管理人才。

Educational Objectives:

The talent cultivation in the major pays attention to overall development in moral, intellectual, physical and aesthetic aspects. In order to meet the national major demand and the social and economic development demands, the students in the major are essentially required for not only mastering basic knowledge in the field of natural science, engineering technology, and human science and management to a certain extent, but also mastering fundamental theories, professional knowledge and basic skills in the discipline of safety science and technology, work safety and emergency management, occupational safety and health, and comprehending disciplines development trends. The objectives of talent cultivation in the major is to cultivate comprehensive senior professional talents who will be equipped with the innovational ability and quality of being engaged in design, research, inspection, evaluation, supervision and management in the field of safety engineering.

毕业要求:

№1.工程知识: 能够将数学、自然科学原理、工程基础理论和专业知识用于解决生产安全技术、设计、事故预防、系统安全等复杂工程问题。

№2.问题分析: 能够应用数学、物理、化学、力学等自然科学和工程科学基本原理, 识别、表达、并通过文献研究分析复杂安全工程问题, 以获得有效结论。

№3.设计/开发解决方案: 能够设计针对机电、化工、建筑施工、消防等领域复杂安全工程问题的解决方案, 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: 能够基于安全科学原理并采用调查、实验、定量分析、文献研究等科学方法对复杂安全工程问题进行研究, 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。

№5.使用现代工具：能够针对复杂安全工程问题，开发、选择与使用本专业恰当的技术、资源、现代工程工具和信息技术工具，包括对复杂安全工程问题的预测与模拟，并能够理解其局限性。

№6.工程与社会：熟悉机电、化工、建筑施工、消防等行业领域的安全生产现状，掌握企业安全生产和社会发展的关系，能够基于安全工程相应的背景知识，合理分析、评价复杂安全工程问题的解决方案对健康、法律以及文化的影响，并理解安全工程师应承担的责任。

№7.环境和可持续发展：能够理解和评价针对机电、化工、建筑施工、消防等行业领域复杂安全工程问题的专业工程实践对环境、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，能够在安全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安全技术与管理、设计与研发团队中承担个体、团队成员以及负责人的角色。

№10.沟通：能够就机电、化工、建筑施工、消防等行业领域复杂安全工程问题与业界同行及社会公众进行有效沟通和交流，包括撰写各类安全报告和安全设计文件、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：理解并掌握与工程项目管理相关的法律法规、管理知识与经济决策方法，并在机电、化工、建筑施工、消防等行业领域多学科环境中应用，初步具备风险评估和管理能力。

№12.终身学习：具备安全工程学科基础理论，掌握自主学习方法和技能，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.Engineering Knowledge: An ability to apply knowledge of mathematics, science, engineering fundamentals and engineering specialization to the solution of complex engineering problems.

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

№3.Design / Development Solutions: An ability to design solutions for complex engineering problems and innovatively design 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 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, to complex engineering activities, with an understanding of the limitations.

№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.Environment and Sustainable Development: An ability to understand and evaluate the impact of professional engineering solutions in environmental and societal contexts and demonstrate knowledge of 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 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 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:

安全工程专业创办于 1999 年, 2000 年开始招生首届本科生, 是华南地区最早开办的安全工程本科专业, 具有安全科学与工程一级学科硕士点和安全工程专业硕士学位授予权。安全工程是以系统论、信息论、控制论为先导, 以安全科学为基础, 集机械、化工、力学、管理、法学、计算机等综合交叉的跨学科专业, 毕业生需求量巨大。本专业教师中, 具有教育部安全工程学科专业教学指导委员会委员 1 名, 省市安全生产专家组成员 5 名; 是广东省安全生产协会副会长单位, 广东省安全生产专业服务机构协会会长单位; 与各级政府安监部门和企事业单位建立了一批生产实习基地, 拥有二个省部级研究生联合培养基地; 注重与国外和港澳在职业健康与安全领域的学习交流, 毕业生绝大部分就业于政府、中外大型企业、质监和安监事业单位、教育部门、社会中介机构、继续读研; 通过参加课外科研实践训练计划、地区安全监管部門开展的安全生产活动、企事业单位和政府部門实习等实践环节, 接触工程实际, 锻炼实践能力, 培养创新意识, 具备国际视野和运用所学知识解决实际问题的综合能力。

Program Profile:

SCUT (South China University of Technology) is the earliest university to launch safety engineering as undergraduate major in the South China, which could confer Master's Degree in the first-level discipline and Professional Master's Degree. The system theory, the information theory and cybernetics are basic guidelines of safety engineering. Safety engineering that is based on safety science is a comprehensive interdisciplinary subject, which include the subjects of machinery, chemical engineering, mechanics, management, law, computer, etc. Market demands of graduates major in safety engineering is huge. It pays

attention to cultivate the senior engineering and technical talents, who can be engaged in the aspects of safety technology and engineering, Safety science and research, safety supervision and management, safe and healthy environment detection and monitoring, security design and production, etc. Graduates in this major are primarily employed in all levels of administration of work safety, large and medium-size enterprises, consultant, testing and inspection organization, scientific research institutions, etc., or continue to graduate study. Through attending extracurricular scientific research training plan, work safety activities held by regional safety supervision departments, and practices in the enterprises, public institutions or government departments, the students could experience engineering practice, enhance the practical ability, and cultivate the innovative consciousness, helping them to acquire international outlook and have comprehensive abilities to solve practical problems by using learned knowledge.

专业特色:

随着人类生存质量的提高，人类对于安全需求的层次越来越高。本专业面向全国，立足华南，辐射至泛珠三角地区，着重培养地方经济社会发展、安全发展所需的安全类专门人才。安全工程专业作为一门口径宽、适应性强的新兴交叉学科，我校坚持社会化、市场化、柔性化、集成化的办学思路，形成了安全工程专业复合型、多样性、实践性、创新性的人才培养模式；安全管理与安全技术并重，强调工程实践的基本训练，培养从事安全工程设计、研究、检测、评价、监察和管理等工作的复合型高级工程技术人才。

Program Features:

With the improvement of the quality of human life, the level of human security needs is increasing. Safety engineering is a new interdisciplinary subject with wide aperture and strong adaptability, which is based on system safety engineering, takes information theory, system theory and cybernetics as precursor, places equal emphasis on safety management and safety technology, emphasis on basic training in engineering practice, and cultivates senior personnel engaged in safety engineering design, research, testing, evaluation, supervision and management.

授予学位: 工学学士学位

Degree Conferred: Bachelor of Engineering

主干课程:

安全控制原理与测试技术、机械及电气安全、安全系统工程学、安全人机工程学、安全管理与事故调查分析、安全生产法规与标准。

Core Courses:

Safety control principle and testing technology, Mechanical & Electrical Safety, Safety system engineering, Safety ergonomics, Safety management & accident investigation, Regulations and Standards of Work Safety .

特色课程：

双语教学课程：流体力学与传热 II、传质与分离工程 II、化工安全工程、专业英语、安全系统工程

研究型课程：安全管理信息系统、安全人机工程、化工过程安全

含新生研讨课：城市安全与人文精神

专题研讨课：安全管理与事故调查分析；专题讲座

校企合作课：职业卫生

专题设计课：安全人机工程课程设计、化工安全工程课程设计

创新实践课程：生产实习、专业实验、毕业设计

创业教育课程：安全工程产业模式与创业

Featured Courses:

Courses Taught in English:

Bilingual Teaching Courses: Fluid Mechanics and Heat Transfer II, Mass Transfer and Separation Engineering II, Chemical Process Safety, Specialty English

Research Courses: Safety Management Information System

Freshmen Seminars: Urban Safety and Humanistic Spirit

Special Topics: Safety Management and Accident Investigation and Analysis

MOOCs: Massive Open Online Courses

Baccalaureate-Master's Integrated Courses:

Cooperative Courses with Enterprises:

Workshops:

Special Designs: Course Design of Chemical Safety Engineering, Course Design of Safety Ergonomics

Contest-Teaching Integrated Courses:

Innovation Practice Courses: Production Practice, Specialty Experiment, Graduation Project

Entrepreneurship Courses: Safety Engineering Industry Model and Entrepreneurship

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

学年 Academic Year	学期 Semester	教学进度安排 (周) Teaching schedule(week)																	理论教学 Theory Teaching	考试 Examination	入学教育 Entrance education	军训 Military training	课程设计 Curriculum design	大作业 Final project	工程训练 Engineering training	电子实习 Electronic Practice	综合实验 Comprehensive experiment	社会实践 Social practice	生产实习 Production practice	毕业实习 Graduation practice	其它实习 Other practice	中外合作项目 Sino-foreign cooperation projects	毕业设计 Graduation project	就业安排 Arranged Employment	机动 Maneuver	假期 Vacation	小计 Subtotal			
		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	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	2	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B	18	2											20							
二	3	3	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B	M	M	M	15	2											20							
	4	4	A	A	A	A	A	A	A	A	A	A	G	B	G	G	E	E	E	13	1		2	4									20							
三	5	5	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Q	B	B	17	2									1			20							
	6	6	A	A	A	A	A	A	A	A	A	A	A	A	B	I	E	E	E	14	1		4		1								20							
四	7	7	K	K	K	K	A	A	A	A	A	A	A	A	A	A	B	B		13	2												20							
	8	8	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	p	p											18	2			20						
		合计 (周) Total(week)																	104	11	1	3	6		4		1		4		3		18	2	1			15		
																																						9		

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	67.5	1052	
	通识 General Education	10.0	160	
学科基础课 Disciplinary Basic Courses	必修 Compulsory	46.5	794	
	选修 Elective	0.0	0	
专业领域课 Specialty-related Courses	必修 Compulsory	8.0	144	
	选修 Elective	9.0	144	
合计 Total		141.0	2294	
集中实践教学环节 (周) Practice Training (Weeks)		37.0	37周 37 weeks	
毕业学分要求 Credits Required for Graduation	141+37.0=178.0			

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
2294	1990	304	1944	350	178	159	19	37	130	11	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
	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
	140191	微积分 II (一) (Calculus II (a))		80				5.0	1	№1,2
	140192	微积分 II (二) (Calculus II (b))		80				5.0	2	№1,2
	140197	线性代数与解析几何 Linear Algebra and Analytic Geometry		48				3.0	1	№1,2
	140019	概率论与数理统计 Probability Theory & Mathematical Statistics		48				3.0	2	№1,2
	147045	大学化学 College Chemistry		32				2.0	1	№1,2
	147036	大学化学实验 College Chemical Experiments		16				0.5	2	№4
	130137	画法几何及机械制图 (一) Descriptive Geometry & Mechanical Graphing(a)		48				3.0	1	№3
130138	画法几何及机械制图 (二) Descriptive Geometry & Mechanical Graphing(b)	64				4.0	2	№3		

	141005	大学物理III (一) (College Physics III(a))		64				4.0	2	№1,2
	141007	大学物理实验 (一) (College Physics Experiment(a))		32		32		1.0	2	№4
	141006	大学物理III (二) (College Physics III(b))		64				4.0	3	№1,2
	141008	大学物理实验 (二) (College Physics Experiment(b))		32		32		1.0	3	№4
	145268	C++程序设计基础 (C++ Programming Foundations)		48				3.0	2	№5
		人文科学领域 Humanities	通识课 E	96				6.0		№8
		社会科学领域 Social Science		64				4.0		№8
	合 计 Total			1212		64	128	77.5		

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 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	133248	工程力学 III Engineering Mechanics III	必 C	80		4		5.0	3	№2
	131039	工程材料及金属工艺学 Engineering Materials & Metallurgical Technology	必 C	56				3.5	3	№1
	131046	安全工程化学基础 Chemical Fundamentals of Safety Engineering	必 C	24				1.5	3	№1,6
	131058	机械设计基础 (Basis of Mechanical Designing)	必 C	64				4.0	4	№2,3
	130070	互换性与技术测量 Exchangeability Measurement Technology	必 C	24		4		1.5	4	№2
	130310	机械基础综合实验 I Comprehensive Experiment of Mechanical Basic I	必 C	10		10		0.5	4	№4,3
	131007	防火与防爆技术 Fire Prevention and Explosion Protection Technology	必 C	32				2.0	4	№6
	131074	安全管理与事故调查分析 Safety Management and Accident Investigation Analysis	必 C	48				3.0	5	№2,4,10
	135002	电路与电子技术 Circuit and Electronics Technique	必 C	64				4.0	4	№3

	135037	电路与电子技术实验 Experiment of Circuit and Electronics Technique	必 C	32		32		1.0	5	№4
	131080	学 科 基 础 实 验 (Discipline Basic Experiment)	必 C	32		32		1.0	5	№4,9
	131006	安全学原理 Principle of Safety Science	必 C	24				1.5	4	№1
	131067	安全人机工程学 S afety E rgonomics	必 C	32				2.0	6	№6
	136115	流体力学与传热 II Fluid Mechanics and Heat Transfer	必 C	48				3.0	5	№1
	137063	化工原理实验 (一) Experiments of Chemical Engineering Principles(a)	必 C	16		16		0.5	5	№4
	137021	传质与分离工程 II Mass Transfer and Separation Processes	必 C	40				2.5	6	№1
	137064	化工原理实验 (二) Experiments of Chemical Engineering Principles(b)	必 C	16		16		0.5	6	№4
	131079	安全系统工程学 Safety System Engineering (bilingual)	必 C	40				2.5	5	№6,10
	131093	安全管理信息系统 Safety Management Information System	必 C	32	4			2.0	5	№5,11
	131094	安全经济学 Safety Economics	必 C	32				2.0	5	№11
	131095	安全生产法规与标准 Regulations and Standards of Work Safety	必 C	32				2.0	5	№8,6
	131034	科技文献检索 Sci-Tech Document Retrieval	必 C	16	4			1.0	4	№5
	合 计 Total			必 C	794	8	114		46.5	
专业领域课 Specialty- related Courses	131040	安全控制原理与测试技术 Safety Control Principle and Testing Technology	必 C	32	4			2.0	6	№5
	131123	化工安全工程 Chemical Safety Engineering(bilingual)	必 C	24				1.5	6	№6
	131088	专业实验 Specialty Experiment	必 C	32		32		1.0	6	№4,9
	131050	机械及电气安全 Mechanical & Electrical Safety	必 C	32				2.0	6	№6
	131030	职业卫生 Occupational Health	必 C	24				1.5	7	№7,6

131025	设备腐蚀与防护 Equipment Corrosion and Protection	选 E	32				2.0	7	№6
131075	特种设备安全技术 Safety Technology of Special equipment	选 E	32				2.0	7	№6
131132	公共应急管理 Public Emergency Management	选 E	32				2.0	7	№10,11
131023	断裂与失效分析 Fracture and Failure Analysis	选 E	32				2.0	7	№6
131066	安全行为心理学 Safety Behavior Psychology	选 E	24				1.5	7	№10,11
131065	保险学原理 Principles of Insurance	选 E	24				1.5	7	№1
130387	安全工程产业模式与创业 Industry Pattern And Entrepreneurship of Safety Engineering	选 E	16				1.0	7	№9,12
131018	环境工程概论 Introduction To Environmental Engineering	选 E	24				1.5	7	№7
130405	工业通风与除尘 Industrial Ventilation and Dust Exhausting	选 E	24				1.5	7	№6
130406	消防工程学 Fire-protection Engineering	选 E	24				1.5	7	№6
130407	建筑安全 Construction Safety	选 E	24				1.5	7	№6
130408	职业健康安全管理体系 Occupation Health Safety Management System	选 E	24				1.5	7	№10,11
130409	企业安全文化 Enterprise Safety Culture	选 E	24				1.5	7	№10
131120	专业英语 Specialty English	选 E	24				1.5	7	№10,12
120003	创新研究训练 Innovation Research Training	选E	32				2.0		№4,12
120004	创新研究实践 I Innovation Research Practice I	选E	32				2.0		№4,12
120005	创新研究实践 II Innovation Research Practice II	选E	32				2.0		№4,12
120006	创业实践 Entrepreneurial Practice	选E	32				2.0		№4,12
合 计 Total		必 选 E	144	4	32		8.0		
			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。

Remarks: Computer-aided class hours and Lab hours are on-campus, and practice hours are off-campus.

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 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	N ₉
143197	马克思主义理论与实践 Marxism Theory and Practice	必 C	2 周		2.0	假期	N ₈
131085	认识实习 Cognition Practice	必 C	3 周 (3 weeks)		3.0	4	N ₈
130357	工程训练 II Engineering Training II	必 C	4 周 (4 weeks)		4.0	3	N ₃
130195	机械设计基础课程设计 Course Design of Mechanical Design Basis	必 C	2 周 (2 weeks)		2.0	4	N ₃
131076	安全人机工程学课程设计 Course Design of Safety Ergonomics	必 C	1 周 (1 weeks)		1.0	6	N ₃
131124	化工安全工程课程设计 Course Design of Chemical Safety Engineering	必 C	1 周 (1 weeks)		1.0	6	N ₃
147076	化工原理课程设计 Course Design of Chemical Engineering Principles	必 C	2 周 (2 weeks)		2.0	6	N ₃
131090	生产实习 Production Practice	必 C	4 周 (4 weeks)		4.0	7	N ₆
131100	毕业设计 Graduation Project	必 C	15 周 (15 weeks)		15.0	8	N _{10,3}
合计 Total		必 C	37 周		37.0		

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.