

**Electrical and Computer Engineering Sample Curriculum Schedule -- Class 2022**

	SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites /Corequisites
Freshman	107421030		思想道德与法治	Ideological and Morality and the rule of Law	Chinese	48	3	Fall	
	888004010		体育-1	Physical Education-1	Chinese	32	1	Fall	
	912002010		大学生心理健康	Mental Health Education	Chinese	16	1	Fall	
	312068010	ENGR 0081	新生研讨会及形势与政策 1	Freshmen Seminar 1	Bilingual	16	1	Fall	
	312168030	ENGCMP 0152	英文写作研习	English Composition	English	48	3	Fall/Spring	
	312162010	ENGCMP 0140-1	英语口语与听力训练-1	English Speaking and Listening-1	English	16	1	Fall	
	312090010	ENGCMP 0152A	写作中心辅导	Writing Center Tutorial	English	16	1	Fall/Spring	
	312004040	MATH 0220	解析几何与微积分 1	Analytic Geometry and Calculus 1	English	64	4	Fall/Spring	
	312008040	PHYS 0174	基础物理 1-理工	Physics for Science and Engineering 1	English	64	4	Fall/Spring	
	312010030	CHEM 0960	工科化学 1	General Chemistry for Engineers 1	English	48	3	Fall	
	312170030	ENGR 0011	工程分析导论	Introduction to Engineering Analysis	English	48	3	Fall	
	107060030		中国近代史纲要	The Outline of Chinese Modern History	Chinese	48	3	Spring	
	900001010		军事理论	Military Theory	Chinese	16	1	Spring	
	900005020		军事技能	Military Training	Chinese	112	2	Spring	
	888005010		体育-2	Physical Education-2	Chinese	32	1	Spring	
	999005030/6030 /9030/8030		中华文化 (历史篇/文学篇/哲学篇/艺术篇)	Chinese Culture	Chinese	48	3	Fall/Spring	
	908049020		工科化学实验	Chemical Experiment	Chinese	32	2	Spring	
	312069010	ENGR 0082	新生研讨会及形势与政策 2	Freshmen Seminar 2	Bilingual	16	1	Spring	*ENGR 0081
	312163010	ENGCMP 0140-2	英语口语与听力训练-2	English Speaking and Listening-2	English	16	1	Spring	
	312005040	MATH 0230	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	64	4	Fall/Spring	*MATH 0220
	312009040	PHYS 0175	基础物理 2-理工	Physics for Science and Engineering 2	English	64	4	Fall/Spring	*PHYS 0174
	312011030	CHEM 0970	工科化学 2	General Chemistry for Engineers 2	English	48	3	Spring	*CHEM 0960
	312169030	ENGR 0012	工程计算	Engineering Computing	English	48	3	Spring	*ENGR 0011
<b>Total</b>						<b>960</b>	<b>53</b>		
Sophomore	SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
	107448030		马克思主义基本原理	The Basic Principles of Marxism	Chinese	48	3	Fall	
	888006010		体育-3	Physical Education-3	Chinese	32	1	Fall	
	312070000	ECE 1085	院系研讨会及形势与政策 3	Department Seminar 3	Bilingual	16	0	Fall	
	312085030	ENGCMP 0200	专业英语写作	Seminar in Composition	English	48	3	Fall	*ENGCMP 0152
	312079040	MATH 0240	解析几何与微积分 3	Analytic Geometry and Calculus 3	English	64	4	Fall/Spring	*MATH 0230
	312186040	ECE 0101	线性电路与系统实验	Linear Circuits & Systems + Lab	English	64	4	Fall	*ENGR 0012, CREQ: PHYS 0175
	312175040	ECE 0201	数字电路与系统实验	Digital Circuits & Systems + Lab	English	64	4	Fall	*ENGR 0012, CREQ: PHYS 0175
	312176030	ECE 0301	用C++解决ECE问题	ECE Problem Solving with C++	English	48	3	Fall	*ENGR 0012
	312177030	ECE 0401	ECE分析方法	ECE Analytical Methods	English	48	3	Fall/Spring	*MATH 0230, CREQ: ENGR 0012
				H/SS Elective 1	English	48	3	Fall	
	107446030		毛泽东思想和中国特色社会主义理论体系概论	The Introduction to Mao Zedong Thought and the Theory of Socialism with Chinese Characteristic	Chinese	48	3	Spring	
	107447030		习 近 平新时代中国特色社会主义思想概论	An Introduction to Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era	Chinese	48	3	Spring	
	888007010		体育-4	Physical Education-4	Chinese	32	1	Spring	
	312071000	ECE 1085	院系研讨会及形势与政策 4	Department Seminar 4	Bilingual	16	0	Spring	
	202489020	PHYS 0219	工科物理实验	Basic Laboratory Physics for Science and Engineering	English	32	2	Spring	*PHYS 0174
	312178040	ECE 0102	微电子电路实验	Microelectronic Circuits + Lab	English	64	4	Spring	*ECE 0101
	312179040	ECE 0202	嵌入式处理器与接口实验	Embedded Processors & Interfacing + Lab	English	64	4	Spring	*ECE 0201, *ECE 0301
	312180030	ECE 0302	数据结构与算法	Data Structures & Algorithms	English	48	3	Spring	*ECE 0301
	312181030	ECE 0402	信号、系统与概率	Signals, Systems & Probability	English	48	3	Spring	*ECE 0401
			H/SS Elective 2	English	48	3	Spring		
<b>Total</b>						<b>928</b>	<b>54</b>		
	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites	
312072000	ECE 1085	院系研讨会及形势与政策 5	Department Seminar 5	Bilingual	16	0	Fall		
312182030	ECE 1212	电子电路设计实验	Electronic Circuit Design Lab	English	48	3	Fall	*ECE 0102, *ECE 0402	
312183030	ECE 1560	数字信号处理	Digital Signal Processing	English	48	3	Fall	*ECE 0402	

Junior	312187030	ECE 1259	电磁学	Electromagnetics	English	48	3	Fall	*MATH 0240 or ECE 0402
	312244030	ECE 1110	计算机组成与体系结构	Computer organization and architecture (ECE Elective)	English	48	3	Fall	
	312228030	MATH 0480	应用离散数学	Applied Discrete Mathematics (ECE Elective)	English	48	3	Fall	
				H/SS Elective 3	English	48	3	Fall	
	312073000	ECE 1085	院系研讨会及形势与政策 6	Department Seminar 6	Bilingual	16	0	Spring	
	312185030	ECE 1895	初级设计基础	Junior Design Fundamentals	English	48	3	Spring	*ECE 0102, *ECE 0202, *ECE 0302, *ECE
	312186040	ECE 1673	线性控制系统	Linear Control Systems	English	64	4	Spring	*ECE 0402
	312184030	ECE 1701	电力工程基础	Fundamentals of Electric Power Engineering	English	48	3	Spring	*ECE 0102
	312188030	ECE 1247	半导体设备理论	Semiconductor Device Theory	English	48	3	Spring	*ECE 1212, *ECE 0402
	312249030	ECE 1150	计算机网络	Computer Networks (ECE Elective)	English	48	3	Spring	
312248030	ECE 1155	信息安全	Information Security (ECE Elective)	English	48	3	Spring		
			H/SS Elective 4	English	48	3	Spring		
<b>Total</b>						<b>672</b>	<b>40</b>		
Senior	<b>SCU Course #</b>	<b>Pitt Course #</b>	<b>Chinese Course Name</b>	<b>English Course Name</b>	<b>Language</b>	<b>Credit Hour</b>	<b>Credit</b>	<b>Term</b>	<b>Prerequisites/Corequisites</b>
	312074000	ECE 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	Fall	
	312099030	ECE 1896	毕业设计1	Senior Project 1	English	48	3	Fall	completion of 75% core courses, 21 credits at most per semester in senior year
				H/SS Elective 5	English	48	3	Fall	
				Technical Elective 1	English	48	3	Fall	
				Technical Elective 2	English	48	3	Fall	
	312075000	ECE 1085	院系研讨会及形势与政策 8	Department Seminar 8	Bilingual	16	0	Spring	
	312076030	ECE 1896	毕业设计2	Senior Project 2	English	48	3	Spring	Senior Project 1
				H/SS Elective 6	English	48	3	Spring	
				Technical Elective 3	English	48	3	Spring	
<b>Total</b>						<b>368</b>	<b>21</b>		
<b>Required Credits : 168</b>									