Industrial Engineering Sample Curriculum Schedule -- Class 2019

SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
107032030		思想道德修养与法律基础	Ideological and Moral Cultivation and Legal Basis	Chinese	48	3	1	
888004010		体育-1	Physical Education-1	Chinese	32	1	1	
312068010	ENGR 0081	新生研讨会及形势与政策 1	Freshmen Seminar 1	Bilingual	16	1	1	
312002030	ENGCMP 0152	高级英文写作研习	English Composition	English	48	3	1	
312082030	ENGCMP 0150	英语中级写作	English Writing Intermediate	English	48	3	1	
312090010	ENGCMP 0152A/0150A	写作中心辅导	Writing Center Tutorial	English	16	1	1	
312111010	ENGCMP 0140	英语听力与口语训练	Speaking and Listening	English	16	1	1	
312004040	MATH 0220	解析几何与微积分 1	Analytic Geometry and Calculus 1	English	64	4	1	
312080080	MATH 0235	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	128	8	1	
312010030	CHEM 0960	工科化学 1	General Chemistry for Engineers 1	English	48	3	1	
312012030	ENGR 0011	工程分析	Introduction to Engineering Analysis	English	48	3	1	
312110030		计算思维与程序设计导论	Introduction to Computational Thinking and Programing	English	48	3	1	
Total					**560**	**34**	**1**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
107060030		中国近代史纲要	The Outline of Chinese Modern History	Chinese	48	3	2	
900001010		军事理论	Military Theory	Chinese	16	1	2	
900005020		军训	Military Training	Chinese	32	1	2	
888005010		体育-2	Physical Education-2	Chinese	32	1	2	
312069010	ENGR 0082	新生研讨会及形势与政策 2	Freshmen Seminar 2	Bilingual	16	1	2	*ENGR 0081
999005030/6030/7030/8030		中华文化（历史篇/文学篇/哲学篇/艺术篇）	Chinese Culture	Chinese	48	3	2	
312085030	ENGCMP 0200	专业英文写作	Seminar in Composition	English	48	3	2	ENGCMP 0152
312005040	MATH 0230	解析几何与微积分 2	Analytic Geometry and Calculus 2	Bilingual	64	4	2	*MATH 0220
312079040	MATH 0240	解析几何与微积分 3	Analytic Geometry and Calculus 3	Chinese	64	4	2	*MATH 0230/0235
312008040	PHYS 0174	基础物理 1-理工	Physics for Science and Engineering 1	English	64	4	2	
312011030	CHEM 0970	工科化学 2	General Chemistry for Engineers 2	English	48	3	2	*CHEM 0960
908049020		工科化学实验	Chemical Experiment	Chinese	32	2	2	
312013030	ENGR 0012	计算机工程学	Engineering Computing	English	48	3	2	*ENGR 0011
918002020		实验室安全与环境保护	Laboratory Safety and Environmental Protection	Chinese	32	2	2	
Total					**592**	**35**	**2**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
107021030		马克思主义基本原理概论	The Basic Principles of Marxism	Chinese	48	3	3	
888006010		体育-3	Physical Education-3	Chinese	32	1	3	
312070000	IE 1085	院系研讨会及形势与政策 3	Department Seminar 3	Bilingual	16	0	3	
312006030	MATH 0280	矩阵与线性代数导论	Matrices and Linear Algebra	English	48	3	3	*MATH 0230/0235
312009040	PHYS 0175	基础物理 2-理工	Physics for Science and Engineering 2	English	64	4	3	*PHYS 0174
312014030	ENGR 0022	材料结构与性能	Materials Structures and Properties		48	3	3	*MATH 0230/0235, PHYS 0174
312022030	IE 1054	生产力分析	Productivity Analysis	English	48	3	3	
312025030	IE 1070	工科概率与统计	Probability and Statistics for Engineers 1	Chinese	48	3	3	*MATH 0230/0235
			H/SS Elective 1	English	48	3	3	
Total					**400**	**23**	**3**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
107061050		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	80	5	4	
888007010		体育-4	Physical Education-4	Chinese	32	1	4	
312071000	IE 1085	院系研讨会及形势与政策 4	Department Seminar 4	Bilingual	16	0	4	
312007030	MATH 0290	微分方程	Differential Equations	English	48	3	4	*MATH 0230/0235
202489020	PHYS 0219	工科物理实验	Basic Laboratory Physics for Science and Engineering	English	32	2	4	
312015030	ENGR 0135	静力学与材料力学 1	Statics and Mechanics of Materials 1	English	48	3	4	*MATH 0235/230, PHYS 0174
312017030	IE 0015	信息系统工程导论	Introduction to Information Systems Engineering		48	3	4	*MATH 0235/230, PHYS 0174
312021030	IE 1052	制造工艺与分析	Manufacturing Processes and Analysis	English	48	3	4	*ENGR 0022
312024030	IE 1061	人因工程学	Human Factors Engineering	English	48	3	4	
312027030	IE 1071	统计测试与回归	Statistical Testing and Regression	English	48	3	4	IE 1070
			H/SS Elective 2	English	48	3	4	
Total					**496**	**29**	**4**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312072000	IE 1085	院系研讨会及形势与政策 5	Department Seminar 5	Bilingual	16	0	5	
312018030	IE 1035	工程管理	Engineering Management	English	48	3	5	
312019030	IE 1040	工程经济学分析	Engineering Economic Analysis	English	48	3	5	
312028030	IE 1081	运筹学	Operations Research	English	48	3	5	*MATH 280
312142030	MEMS 0031	电路学	Electric Circuits	English	48	3	5	*PHYS 0175
			H/SS Elective 3	English	48	3	5	
			Technical Elective 1	English	48	3	5	
			Technical Elective 2	English	48	3	5	
Total					**352**	**21**	**5**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312073000	IE 1085	院系研讨会及形势与政策 6	Department Seminar 6	Bilingual	16	0	6	
312023030	IE 1055	设施布局与材料处理	Facility Layout and Material Handling	English	48	3	6	
312029030	IE 1082	概率方法	Probabilistic Methods in Operations Research	English	48	3	6	*IE 1071/1081
312030030	IE 1083	离散事件模拟	Simulation Modeling	English	48	3	6	*IE 1071
			H/SS Elective 4	English	48	3	6	
			Technical Elective 3	English	48	3	6	
Total					**256**	**15**	**6**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312074000	IE 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	7	
312026030	IE 1080	供应链管理	Supply Chain Analysis	English	48	3	7	IE 1055/IE 1082
312099030		毕业设计1	Senior Project 1	English	48	3	7	
			H/SS Elective 5	English	48	3	7	
			Technical Elective 4	English	48	3	7	
Total					**208**	**12**	**7**	

SCU Course #	Pitt Course #		English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312075000	IE 1085	院系研讨会及形势与政策 8	Department Seminar 8	Bilingual	16	0	8	
312031040	IE 1090	毕业设计	Senior Project	English	64	4	8	
			H/SS Elective 6	English	48	3	8	
			Technical Elective 5	English	48	3	8	
Total					**176**	**10**	**8**	

Required Credit： 165/168（MATH 220+230 = MATH 235, students either take both 220 and 230, or just take one 235; students need to take at least two of ENGR 0022 , ENGR 0135 and MEMS 0031）