

## Mechanical Engineering Sample Curriculum Schedule -- Class 2020

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	
<b>Total</b>					<b>512</b>	<b>31</b>	<b>1</b>	
SCU Course #	Pitt Course #	Chinese Course Name	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		军事技能	Military Training	Chinese	112	2	2	
888005010		体育-2	Physical Education-2	Chinese	32	1	2	
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	
908049020		工科化学实验	Chemical Experiment	Chinese	32	2	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
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	English	64	4	2	*MATH 0220
312079040	MATH 0240	解析几何与微积分 3	Analytic Geometry and Calculus 3	English	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
312013030	ENGR 0012	计算机工程学	Engineering Computing	English	48	3	2	*ENGR 0011
<b>Total</b>					<b>640</b>	<b>34</b>	<b>2</b>	
SCU Course #	Pitt Course #	Chinese Course Name	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	ME 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	English	48	3	3	*MATH 0230/0235, PHYS 0174
312015030	ENGR 0135	静力学与材料力学 1	Statics and Mechanics of Materials 1	English	48	3	3	*MATH 0230/0235, PHYS 0174
312083030	MEMS 0024	机械工程设计制造导论	Introduction to Mechanical Engineering Design	English	48	3	3	*ENGR 0011
			H/SS Elective 1	English	48	3	3	
			Engineering Elective	English	48	3	3	
<b>Total</b>					<b>448</b>	<b>26</b>	<b>3</b>	
SCU Course #	Pitt Course #	Chinese Course Name	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	ME 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	
312016030	ENGR 0145	静力学与材料力学 2	Statics and Mechanics of Materials 2	English	48	3	4	*ENGR 0135
312045030	ME 0051	热力学导论	Introduction to Thermodynamics	English	48	3	4	*PHYS 0174, CHEM 0960
312048030	ME 1015	刚体动力学	Rigid-Body Dynamics	English	48	3	4	*ENGR 0135, MATH 0240
312142030	MEMS 0031	电路学	Electric Circuits	English	48	3	4	*PHYS 0175

			H/SS Elective 2	English	48	3	4	
<b>Total</b>					<b>448</b>	<b>26</b>	<b>4</b>	
SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
107404020		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	36	2	5	
312072000	ME 1085	院系研讨会及形势与政策 5	Department Seminar 5	Bilingual	16	0	5	
312021030	MEMS 0040	制造工艺与分析	Manufacturing Processes and Analysis	English	48	3	5	*ENGR 0022
312046030	ME 0071	流体力学导论	Introduction to Fluid Mechanics	English	48	3	5	*PHYS 0174, CHEM 0960
312049030	MEMS 1028	机械设计 1	Mechanical Design 1	English	48	3	5	*ENGR 0145
312047030	ME 1014	动力学系统	Dynamic Systems	English	48	3	5	*MEMS 0031, MATH 0280, ENGR 0012, ME 1015, <i>MATH0290(Corequisite)</i>
			H/SS Elective 3	English	48	3	5	
			Technical Elective 1	English	48	3	5	
<b>Total</b>					<b>340</b>	<b>20</b>	<b>5</b>	
SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312073000	ME 1085	院系研讨会及形势与政策 6	Department Seminar 6	Bilingual	16	0	6	
312050030	ME 1029	机械设计 2	Mechanical Design 2	English	48	3	6	*MEMS 1028, MEMS 0024
312051030	ME 1041	机械测量 1	Mechanical Measurements 1	English	48	3	6	*ENGR 0145, MEMS 0031
312054030	MEMS 1052	热质传导	Heat and Mass Transfer	English	48	3	6	*ME 0051
			H/SS Elective 4	English	48	3	6	
			Technical Elective 2	English	48	3	6	
<b>Total</b>					<b>256</b>	<b>15</b>	<b>6</b>	
SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312074000	ME 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	7	
312052030	ME 1042	机械测量 2	Mechanical Measurements 2	English	48	3	7	*ME 1041
312099030		毕业设计1	Senior Project 1	English	48	3	7	
			H/SS Elective 5	English	48	3	7	
			Technical Elective 3	English	48	3	7	
<b>Total</b>					<b>208</b>	<b>12</b>	<b>7</b>	
SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
312075000	ME 1085	院系研讨会及形势与政策 8	Department Seminar 8	Bilingual	16	0	8	
312076030	ME 1043	毕业设计2	Senior Project2	English	48	3	8	
			H/SS Elective 6	English	48	3	8	
			Technical Elective 4	English	48	3	8	
<b>Total</b>					<b>160</b>	<b>9</b>	<b>8</b>	
Required Credits : 162/165 (MATH 220+230 = MATH 235, students either take both 220 and 230, or just take one 235)								