

## Mechanical Engineering Sample Curriculum Schedule -- Class 2021

	SCU Course #	Pitt Course #	Chinese Course Name	English Course Name	Language	Credit Hour	Credit	Term	Prerequisites/Corequisites
Freshman	107032030		思想道德修养与法律基础	Ideological and Moral Cultivation and Legal Basis	Chinese	48	3	Fall	
	888004010		体育-1	Physical Education-1	Chinese	32	1	Fall	
	312068010	ENGR 0081	新生研讨会及形势与政策 1	Freshmen Seminar 1	Bilingual	16	1	Fall	
	312002030	ENGCMP 0152	高级英文写作研习	English Composition	English	48	3	Fall/Spring	
	312082030	LING 0007/ENGCMP 0150	英语中级写作	English Writing Intermediate	English	48	3	Fall	
	312090010	ENGCMP 0152A /LING 0007A	写作中心辅导	Writing Center Tutorial	English	16	1	Fall	
	312004040	MATH 0220	解析几何与微积分 1	Analytic Geometry and Calculus 1	English	64	4	Fall	
	312080080	MATH 0235	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	128	8	Fall/Spring	
	312010030	CHEM 0960	工科化学 1	General Chemistry for Engineers 1	English	48	3	Fall	
	312012030	ENGR 0011	工程分析	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
	312111010	ENGCMP 0140	英语听力与口语训练	Speaking and Listening	English	16	1	Spring	
	312085030	ENGCMP 0200	专业英语写作	Seminar in Composition	English	48	3	Fall/Spring	*ENGCMP 0152
	312005040	MATH 0230	解析几何与微积分 2	Analytic Geometry and Calculus 2	English	64	4	Spring	*MATH 0220
	312079040	MATH 0240	解析几何与微积分 3	Analytic Geometry and Calculus 3	English	64	4	Fall/Spring	*MATH 0230/0235
	312008040	PHYS 0174	基础物理 1-理工	Physics for Science and Engineering 1	English	64	4	Fall/Spring	
	312011030	CHEM 0970	工科化学 2	General Chemistry for Engineers 2	English	48	3	Spring	*CHEM 0960
312013030	ENGR 0012	计算机工程学	Engineering Computing	English	48	3	Spring	*ENGR 0011	
<b>Total</b>						<b>976/1088</b>	<b>54/57</b>		
<p>Note:</p> <p>1. MATH 220+230 = MATH 235, students either take both 220 and 230, or just take one 235;</p> <p>2. Students who are placed in MATH 220 will take PHYS 0174 simultaneously in the Fall semester. The rest of students will take PHYS0174 in the Spring semester;</p> <p>3. Some students will be placed in an extra LING 0007/ENGCMP 0150.</p>									
Sophomore	107021030		马克思主义基本原理概论	The Basic Principles of Marxism	Chinese	48	3	Fall	
	888006010		体育-3	Physical Education-3	Chinese	32	1	Fall	
	312070000	ME 1085	院系研讨会及形势与政策 3	Department Seminar 3	Bilingual	16	0	Fall	
	312006030	MATH 0280	矩阵与线性代数导论	Matrices and Linear Algebra	English	48	3	Fall/Spring	*MATH 0230/0235
	312009040	PHYS 0175	基础物理 2-理工	Physics for Science and Engineering 2	English	64	4	Fall/Spring	*PHYS 0174
	312014030	ENGR 0022	材料结构与性能	Materials Structures and Properties	English	48	3	Fall/Spring	*MATH 0230, *PHYS 0174, *CHEM 0960
	312015030	ENGR 0135	静力学与材料力学 1	Statics and Mechanics of Materials 1	English	48	3	Fall/Spring	*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	Fall	*ENGR 0011
				H/SS Elective 1	English	48	3	Fall	
				Engineering Elective	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	ME 1085	院系研讨会及形势与政策 4	Department Seminar 4	Bilingual	16	0	Spring	
	312007030	MATH 0290	微分方程	Differential Equations	English	48	3	Fall/Spring	*MATH 0230/0235
	202489020	PHYS 0219	工科物理实验	Basic Laboratory Physics for Science and Engineering	English	32	2	Spring	*PHYS 0174
	312016030	ENGR 0145	静力学与材料力学 2	Statics and Mechanics of Materials 2	English	48	3	Fall/Spring	*ENGR 0135
312045030	ME 0051	热力学导论	Introduction to Thermodynamics	English	48	3	Fall/Spring	*PHYS 0174, *CHEM 0960	

	312048030	ME 1015	刚体动力学	Rigid-Body Dynamics	English	48	3	Fall/Spring	*ENGR 0135, *MATH 0240	
	312142030	MEMS 0031	电路学	Electric Circuits	English	48	3	Fall/Spring	*PHYS 0175	
				H/SS Elective 2	English	48	3	Spring		
	<b>Total</b>					<b>912</b>	<b>53</b>			
Junior		<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>	
		312072000	ME 1085	院系研讨会及形势与政策 5	Department Seminar 5	Bilingual	16	0	Fall	
		312021030	MEMS 0040	制造工艺与分析	Manufacturing Processes and Analysis	English	48	3	Fall/Spring	*ENGR 0022
		312046030	ME 0071	流体力学导论	Introduction to Fluid Mechanics	English	48	3	Fall/Spring	*PHYS 0174, *CHEM 0960
		312049030	MEMS 1028	机械设计 1	Mechanical Design 1	English	48	3	Fall/Spring	*ENGR 0145
		312047030	ME 1014	动力学系统	Dynamic Systems	English	48	3	Fall/Spring	*MEMS 0031, *MATH 0280, *ENGR 0012, * ME 1015, *MATH0290
					H/SS Elective 3	English	48	3	Fall	
					Technical Elective 1	English	48	3	Fall	
		312073000	ME 1085	院系研讨会及形势与政策 6	Department Seminar 6	Bilingual	16	0	Spring	
		312050030	ME 1029	机械设计 2	Mechanical Design 2	English	48	3	Fall/Spring	*MEMS 1028, *MEMS 0024
		312051030	ME 1041	机械测量 1	Mechanical Measurements 1	English	48	3	Fall/Spring	*ENGR 0145, *MEMS 0031
		312054030	MEMS 1052	热质传导	Heat and Mass Transfer	English	48	3	Fall/Spring	*ME 0051
					H/SS Elective 4	English	48	3	Spring	
					Technical Elective 2	English	48	3	Spring	
	<b>Total</b>					<b>560</b>	<b>33</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	ME 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	Fall		
	312052030	ME 1042	机械测量 2	Mechanical Measurements 2	English	48	3	Fall/Spring	*ME 1041, ME 1014, ME0071	
	312099030		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 3	English	48	3	Fall	
	312075000	ME 1085	院系研讨会及形势与政策 8	Department Seminar 8	Bilingual	16	0	Spring		
	312076030	ME 1043	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 4	English	48	3	Spring	
	<b>Total</b>					<b>368</b>	<b>21</b>			
<b>Required Credits : 161/164</b>										