

Mechanical Engineering Sample Curriculum Schedule_Class 2024

	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	
	107482010		国家安全教育	National Security Education	Chinese	16	1	Fall	
	918003020		实验室环境与保护理论和实践	Theory and Practice of laboratory safety and environmental protection	Chinese	32	2	Fall	
	312068010	ENGR 0081	新生研讨会及形势与政策 1	Freshmen Seminar 1	Bilingual	16	1	Fall	
	312162010	ENGCOMP 0140-1	英语口语与听力训练-1	English Speaking and Listening-1	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/Spring	
	312006030	MATH 0280	矩阵与线性代数导论	Matrices and Linear Algebra	English	48	3	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	32	2	Spring	
	900005020		军事技能	Military Training	Chinese	112	2	Spring	
	888005010		体育-2	Physical Education-2	Chinese	32	1	Spring	
	107418020/107419020/ 102620020/106812020/ 106844020		中共党史/社会主义发展史/改革开放史/新中国史/中华民族发展史 (中华民族的凝聚与演进) (五选一)	The History of Chinese Communist Party/Seminars on the History of Socialist Development/The History of China's Reform and Opening-up/History of New China/The Development History of the Chinese Nation (The Formation and Development of the Chinese Nation)	Chinese	32	2	Spring	
	999005020/6020/ 7020/9020		中华文化(历史篇/文学篇/艺术篇/哲学篇)(四选一)	Chinese Culture	Chinese	32	2	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
	312168030	ENGCOMP 0152	英文写作研习	English Composition	English	48	3	Spring	
312090010	ENGCOMP 0152A	写作中心辅导	Writing Center Tutorial	English	16	1	Spring		
312163010	ENGCOMP 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	
Total								59/61	
Sophomore	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	
	999011020		科技进步与技术革命	Progresses of Science and Revolutions of Technology	Chinese	32	2	Fall	
	312070000	ME 1085	院系研讨会及形势与政策 3	Department Seminar 3	Bilingual	16	0	Fall	
	312085030	ENGCOMP 0200	专业英语写作	Seminar in Composition	English	48	3	Fall	*ENGCOMP 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
	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, *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
	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		
Total								53/55	
Note: Students need to take at least one of 999005020, 999006020, 999007020, 999009020 and 999011020.									
Junior	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		
Total								33	
312074000	ME 1085	院系研讨会及形势与政策 7	Department Seminar 7	Bilingual	16	0	Fall		

Senior	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
				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
				Technical Elective 4	English	48	3	Spring	
			劳动教育 (另行认定)				1		
			美育 (另行认定)				2		
			Total				18		
	Required Credits : 165								