

MATERIALS SCIENCE AND ENGINEERING CURRICULUM CHECKLIST

Name: _____

Date: _____

Course	Credits	Course Title	Prerequisites/Corequisites
CHEM0960	3 _____	Gen. Chem. for Engr. 1	
CHEM0970	3 _____	Gen. Chem. for Engr. 2	CHEM0960
MATH0220	4 _____	Anal. Geometry & Calc. 1	
MATH0230	4 _____	Anal. Geometry & Calc. 2	MATH0220
MATH0240	4 _____	Anal. Geometry & Calc. 3	MATH0230
MATH0280	3 _____	Matrices & Linear Algebra	MATH0220
MATH0290	3 _____	Differential Equations	MATH0230
PHYS0174	4 _____	Phys. for Sci. & Engr. 1	<i>MATH0220</i> ¹
PHYS0175	4 _____	Phys. for Sci. & Engr. 2	PHYS0174, <i>MATH0230</i>
PHIL0300	3 _____	Intro. to Ethics (Humanity)	
_____	3 _____	Humanity/Soc. Sci. Elective	
_____	3 _____	Humanity/Soc. Sci. Elective	
_____	3 _____	Humanity/Soc. Sci. Elective	
_____	3 _____	Humanity/Soc. Sci. Elective	
_____	3 _____	Humanity/Soc. Sci. Elective	
_____	3 _____	Communication Skills Elective	
ENGR0011	3 _____	Intro. to Engr. Analysis	
ENGR0012	3 _____	Engr. Computing	ENGR0011
ENGR0020	4 _____	Probability and Statistics	MATH0230
ENGR0022	3 _____	Mater. Struct. & Properties	MATH0230, PHYS0174
ENGR0135	3 _____	Statics & Mech. of Mater. 1	MATH0230, PHYS0174
ENGR0145	3 _____	Statics & Mech. of Mater. 2	ENGR0135
MEMS0024	3 _____	Intro. to ME Design	ENGR0011
MEMS0031	3 _____	Electrical Circuits	PHYS0175, <i>MATH0290</i>
MEMS0040	3 _____	Materials & Manufacturing	ENGR0022
MEMS0051	3 _____	Intro. to Thermo-Fluids	PHYS0174, CHEM0960, <i>MATH0290</i>
MEMS1010	3 _____	Experimental Methods in MSE	ENGR0022
MEMS1011	2 _____	Struct. & Prop. Lab	MEMS1010
MEMS1028	3 _____	Mechanical Design 1	ENGR0145
MEMS1030	3 _____	Material Selection	ENGR0022, MEMS1028
MEMS1043	3 _____	Senior Design Project	<i>Senior Standing</i>
MEMS1052	3 _____	Heat and Mass Transfer	MEMS0051
MEMS1054	3 _____	Materials Science 1	ENGR0022
MEMS1056	3 _____	Energetics	ENGR0022, MEMS0051
MEMS1058	3 _____	Electromagnetic Prop. Mater.	ENGR0022
MEMS1064	3 _____	Materials Science 2	MEMS1054, MEMS1056
MEMS1070	3 _____	Mech. Behavior of Materials	ENGR0022, ENGR0145
MEMS1079	3 _____	Senior Mater. Research Proj.	<i>Senior Standing</i>
_____	3 _____	MSE Technical Elective	
_____	3 _____	MSE Technical Elective	
_____	3 _____	MSE Technical Elective	

¹Italicized courses indicate corequisites, that is, courses that must be taken prior to or concurrently with the subject course.