

# 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> <sup>1</sup>
PHYS0175	4 _____	Phys. for Sci. & Engr. 2	PHYS0174, <i>MATH0230</i>
_____	3 _____	Humanity Elective	<u>Student has fulfilled</u> <input type="checkbox"/> Breadth <input type="checkbox"/> Depth <input type="checkbox"/> W-course
_____	3 _____	Social Science 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
ENGR0022	3 _____	Mater. Struct. & Properties	MATH0230, PHYS0174
ENGR0135	3 _____	Statics & Mech. of Mater. 1	MATH0230, PHYS0174
ENGR0145	3 _____	Statics & Mech. of Mater. 2	ENGR0135
_____	3 _____	Engineering Elective	
MEMS0024	3 _____	Intro. to ME Design	ENGR0011
MEMS0031	3 _____	Electrical Circuits	PHYS0175, <i>MATH0290</i>
MEMS0040	3 _____	Materials & Manufacturing	ENGR0022
MEMS0048	3 _____	Thermodynamics of Materials	PHYS0174, CHEM0960, <i>MATH0290</i>
MEMS1010	3 _____	Experimental Methods in MSE	ENGR0022
MEMS1011	3 _____	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	MEMS0048
MEMS1053	3 _____	Struct. of Crystals & Diffract.	ENGR0022
MEMS1058	3 _____	Electromagnetic Prop. Mater.	ENGR0022
MEMS1059	3 _____	Phase Equilibria	ENGR0022, MEMS0048
MEMS1063	3 _____	Phase Transformations	MEMS1053, MEMS1059
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	

<sup>1</sup>Italicized courses indicate corequisites, that is, courses that must be taken before or concurrently.