

## MATERIALS SCIENCE AND ENGINEERING SAMPLE CURRICULUM SCHEDULE

Shown below is an example of a schedule of courses that leads to a B.S. in Materials Science and Engineering in four years. It satisfies all of the relevant course prerequisites and the Materials Science and Engineering degree requirements.

**FIRST TERM**

Subject		Credits
CHEM0960	Gen. Chem. for Engr. 1	3
MATH0220	Anal. Geometry & Calc. 1	4
PHYS0174	Phys. for Sci. & Engr. 1	4
ENGR0011	Intro. to Engr. Analysis	3
	<i>Humanity/Soc. Sci. Elective</i>	3
ENGR0081	Freshman Seminar	<u>0</u>
		17

**SECOND TERM**

Subject		Credits
CHEM0970	Gen. Chem. for Engr. 2	3
MATH0230	Anal. Geometry & Calc. 2	4
PHYS0175	Phys. for Sci. & Engr. 2	4
ENGR0012	Engr. Computing	3
	<i>Humanity/Soc. Sci. Elective</i>	3
ENGR0082	Freshman Seminar	<u>0</u>
		17

**THIRD TERM**

Subject		Credits
MATH0240	Anal. Geometry & Calc. 3	4
MATH0280	Matrices & Linear Algebra	3
ENGR0022	Mater. Struct. & Properties	3
ENGR0135	Statics & Mech. Mater. 1	3
MEMS0024	Intro. to ME Design	3
MEMS1085	Departmental Seminar	<u>0</u>
		16

**FOURTH TERM**

Subject		Credits
MATH0290	Differential Equations	3
ENGR0145	Statics & Mech. Mater. 2	3
MEMS0031	Electrical Circuits	3
MEMS0040	Materials & Manufacturing	3
MEMS0048	Thermodynamics of Materials	3
	<i>Communication Skills Elective</i>	3
MEMS1085	Departmental Seminar	<u>0</u>
		18

**FIFTH TERM**

Subject		Credits
MEMS1010	Experimental Methods in MSE	3
MEMS1052	Heat and Mass Transfer	3
MEMS1053	Struct. of Crystals & Diffract.	3
MEMS1058	Electromagnetic Prop. Mater.	3
MEMS1059	Phase Equilibria	3
MEMS1085	Departmental Seminar	<u>0</u>
		15

**SIXTH TERM**

Subject		Credits
MEMS1011	Struct. & Prop. Lab	3
MEMS1028	Mechanical Design 1	3
MEMS1063	Phase Transformations	3
MEMS1070	Mech. Behavior of Materials	3
	<i>Engineering Elective</i>	3
MEMS1085	Departmental Seminar	<u>0</u>
		15

**SEVENTH TERM**

Subject		Credits
MEMS1030	Material Selection	3
MEMS1079	Senior Mater. Research Proj.	3
	<i>MSE Technical Elective</i>	3
	<i>Humanity/Soc. Sci. Elective</i>	3
	<i>Humanity/Soc. Sci. Elective</i>	3
MEMS1085	Departmental Seminar	<u>0</u>
		15

**EIGHTH TERM**

Subject		Credits
MEMS1043	Senior Design Project	3
	<i>MSE Technical Elective</i>	3
	<i>MSE Technical Elective</i>	3
	<i>Humanity/Soc. Sci. Elective</i>	3
	<i>Humanity/Soc. Sci. Elective</i>	3
MEMS1085	Departmental Seminar	<u>0</u>
		15