

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 the relevant course prerequisites and the Materials Science and Engineering degree requirements.

FIRST TERM			SECOND TERM		
Subject		Credits	Subject		Credits
CHEM0960	Gen. Chem. for Engr.1	3	CHEM0970	Gen. Chem. for Engr.2	3
MATH0220	Anal. Geometry & Calc.1	4	MATH0230	Anal. Geometry & Calc.2	4
PHYS0174	Phys. for Sci. & Engr.1	4	PHYS0175	Phys. for Sci. & Engr.2	4
ENGR0011	Intro. to Engr. Analysis	3	ENGR0012	Engr. Computing	3
ENGCMP0210	Seminar in Composition	3	ENGCMP0412	Engr. Communication	3
ENGR0081	Freshman Seminar	0	ENGR0082	Freshman Seminar	0
		17			17
THIRD TERM			FOURTH TERM		
Subject		Credits	Subject		Credits
MATH0240	Anal. Geometry & Calc.3	4	MATH0290	Differential Equations	3
MATH0280	Matrices & Linear Algebra	3	ENGR0145	Statics & Mech. Mater.2	3
ENGR0135	Statics & Mech. Mater.1	3	MEMS0031	Electrical Circuits	3
MEMS0023	Intro. to MSE	3	MEMS0040	Materials & Manufacturing	3
MEMS0024	Intro. to ME Design	3	MEMS0048	Thermodynamics of Materials	3
MEMS1085	Departmental Seminar	0		<i>Communication Skills Elective</i>	3
MEMS1086	MSE Seminar	0	MEMS1085	Departmental Seminar	0
		16	MEMS1086	MSE Seminar	0
					18
FIFTH TERM			SIXTH TERM		
Subject		Credits	Subject		Credits
MEMS1010	Experimental Methods in MSE	3	MEMS1011	Struct. & Prop. Lab	3
MEMS1052	Heat and Mass Transfer	3	MEMS1028	Mechanical Design 1	3
MEMS1053	Struct. of Crystals & Diffract.	3	MEMS1063	Phase Transformations	3
MEMS1058	Electromagnetic Prop. Mater.	3	MEMS1070	Mech. Behavior of Materials	3
MEMS1059	Phase Equilibria	3		<i>Engineering Elective</i>	3
MEMS1085	Departmental Seminar	0	MEMS1085	Departmental Seminar	0
MEMS1086	MSE Seminar	0	MEMS1086	MSE Seminar	0
		15			15
SEVENTH TERM			EIGHTH TERM		
Subject		Credits	Subject		Credits
MEMS1030	Material Selection	3	MEMS1043	Senior Design Project	3
MEMS1070	Senior Mater. Research Proj.	3		<i>MSE Technical Elective</i>	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
	<i>Humanity/Soc. Sci. Elective</i>	3		<i>Humanity/Soc. Sci. Elective</i>	3
MEMS1085	Departmental Seminar	0	MEMS1085	Departmental Seminar	0
MEMS1086	MSE Seminar	0	MEMS1086	MSE Seminar	0
		15			15

Students must enroll in both MEMS 1085 Departmental Seminar and MEMS 1086 MSE Seminar each semester