

Materials Science and Engineering with Enterprise Minor Curriculum Flow Chart – 131 Credits Required

	Year 1	Year 2	Year 3	Year 4
FALL	MA1160 Calculus I (4)	MA3160 Multivariable Calculus (4)	MY3100 Matls. Processing I (4)	MY4900 MSE Professional Development (1)
	CH1150 Univ. Chemistry I (3)	CH1160 Univ. Chemistry II (3)	MY3200 Matls. Characterization. I (4)	MY4600 Intro. to Polymer Eng (3) or CM/CH4610 Intro. to Polymer Science (3) ²
	CH1151 Univ. Chemistry I Lab (1)	CH1160 Univ. Chemistry II Lab (1)	MY3400 Mechanical Props Matls (3)	EC3400 Economic Decision Analysis (3)
	PH1100 Intro. Physics Lab I (1)	PH2200 Univ. Physics II-E&M (3)	MA3710 Engineering Statistics (3)	Technical Electives (3) ¹
	ENG1101 Engineering Analysis and Problem Solving (3)	MY2100 Intro. Matls Sci & Engr (3)	ENT3950 Enterprise Proj. II (1)	Gen Ed (3)
	UN1001 Perspectives (3)	UN2002 Institutions (3)	ENT2961 – Teaming in the Enterprise (2)⁴	ENT4950 Enterpr. Proj. IV (2) Enterprise Elective Module (2)²
	15 total	17 total	17 total	17 total
SPR	MA2160 Calculus II (4)	MA2320 or MA2321 Elementary Linear Algebra (2)	MY3110 Matls Processing II (4)	MY4800 Matls Selection & Design (3)
	PH2100 Univ. Physics I - Mechanics (3)	MA3520 or MA3521 Brief Differential Equations (2)	MY3210 Matls Characterization II (4)	Technical Electives (5) ¹
	PH1200 Intro. Physics Lab II (1)	ENG2120 Statics-Strength of Materials (4)	MY3300 Design of Microstructure (3)	Gen Ed (3)
	ENG1102 Engineering Modeling and Design (3)	MY2000 Intro. to Materials Processing (3)	MY3700 Electronic, Magnetic and Optical Props. Matls. (4)	Gen Ed (3)
	UN1002 World Cultures (4)	UN2001 Revisions (3)	ENT3960 Enterpr. Proj. III (1)	ENT4960 Enterprise Proj. V (2)
		ENT2962 Comm. Contexts (1)⁴	Enterprise Elective Module (1)²	Enterprise Elective Module(1)²
	15 total	16 total	17 total	17 total

1. Technical Electives must be at the 3000 or higher level in Science, Engineering or Mathematics.
2. Appropriate choice of 3 Enterprise Elective Module credits could satisfy Gen. Ed. Distribution requirements thereby reducing the total degree requirements with Minor to a minimum of 131. ENT2961 and ENT2962 are suggested here, but there are other communication choices available within the Minor. ENT2961 may be taken in fall of the second year if schedule permits.
3. Physical Education (3 credits) are not included in the flowsheet and must be added by the student..
4. Most courses have prerequisites. Please see the MSE academic advisor or the University Catalog at https://www.banweb.mtu.edu/pls/owa/stu_ctg_utils.p_online_all_courses_ug for course descriptions and prerequisites.