

Materials Science and Engineering Sample Schedule	Credit Hou	1	2	3	4	5	6	7	8
subjects Required by all programs									
Mathematics 115, 116, 215, and 216	16	4	4	4	4				
Engineering 100, Introduction to Engineering	4	4							
Engineering 101, Introduction to Computers	4		4						
Chemistry 125/126 and 130 or Chemistry 210 and 211	5	5							
Physics 140 with Lab 141; Physics 240 with Lab 241	10		5	5					
Intellectual Breadth	16	4	4		4		4		
Science and Technical Subjects (14 hours)									
ME 211, Introduction to Solid Mechanics	4				4				
Science and Technical Electives (must include math course from MSE list)	10						3	4	3
Program Subjects (47 hours)									
MSE 250, Principles of Engineering Materials or MSE 220, Introduction to Materials and Manufacturing	4			4					
MSE 242, Physics of Materials	4				4				
MSE 330, Thermodynamics of Materials	4					4			
MSE 335, Kinetics and Transport in Materials Engineering	4						4		
MSE 350, Structure of Materials	4					4			
MSE 360, Materials Lab I	3					3			
MSE 365, Materials Lab II	3						3		
MSE 420, Mechanical Behavior of Materials	3							3	
MSE 481, Designing Sustainable Products and Processes	3								3
MSE 482, Product Deign and Manufacturing	3							3	
Choose four MSE courses 400 level or above	12					3		3	6
Electives									
General Electives	12			3			3	3	3
Total	128	17	17	16	16	14	17	16	15