

BACHELOR OF SCIENCE IN MATERIALS ENGINEERING

Department of Mining, Metallurgical and Materials Engineering

College of Engineering

160 units

FIRST YEAR

1st Semester	20 units	Pre-req	Co-req
GE 1 Kas 1	3		
GE 2 Philo 1	3		
Physics 71	4	none	Math 21
Physics 71.1	1		Physics 71
Math 21*	4	Math 20/High School Calculus	
Chem 16	3		
Chem 16.1	2		Chem 16
PE	(2)		

2nd Semester	20 units	Pre-req	Co-req
Math 22	4	Math 21	
Chem 31	3	Chem 16	
Chem 31.1	2	Chem 16, Chem 16.1	Chem 31
Physics 72	4	Physics 71	
Physics 72.1	1	Physics 71.1	Physics 72
MatE 15	3		
MatE 21	3	Physics 71	Chem 31
PE	(2)		

SECOND YEAR

1st Semester	20 units	Pre-req	Co-req
Chem 26	3	Chem 16	
Chem 26.1	2	Chem 16	Chem 26
ES 101	4	Math 22	
Math 23	4	Math 22	
MatE 23	3	MatE 21, Physics 72	
MMME 14	4	Math 21	
NSTP	(3)		

2nd Semester	19 units	Pre-req	Co-req
GE 3 Socio 10	3		
ES 1	2		
MMME 21	3	Math 23	
ES 26	3	Math 21	
MatE 22	4	MatE 21	ES 101, MMME 21
MatE 101	4	MatE 21, Chem 26, Chem 26.1	
NSTP	(3)		

THIRD YEAR

1st Semester	21 units	Pre-req	Co-req
GE 4 Fil 40	3		
GE 5 Eng 13/Speech	3		
EEE 1	4	Physics 72, MMME 21	
MatE 103	4	MatE 101, Math 22	
MatE 105	4	Chem 26, MatE 22	MatE 23
ES 102	3	ES 101	
PE	(2)		

2nd Semester	17 units	Pre-req	Co-req
MatE 165	3	MatE 105	
MatE 165.1	2		MatE 165, MMME 14
MatE 107	3	ES 101, MatE 103	
MatE 175	3	MatE 21	MatE 107
MatE 175.1	2	MMME 14	MatE 175
MatE 190	1	3rd Year Standing	
MatE Elective	3		
PE	(2)		

MIDYEAR

MatE 191 - 6 units

FOURTH YEAR

1st Semester	20 units	Pre-req	Co-req
GE 6 STS 1/DRMAPS	3		
GE 7 Arts 1	3		
MatE 171	3	None (4th year standing)	
MatE 180	4	None (4th year standing)	
MatE 194	5	MatE 175, ES 1	MatE 180
MatE 200	2	MatE 190	

2nd Semester	17 units	Pre-req	Co-req
GE 8 Soc Sci 1/ Soc Sc	3		
GE 9 GE Elective	3		
MatE 173	3	MatE 171	
MatE 200	2	MatE 190	
MatE Elective	3		
PI 100	3		

*All students required to take Math 21 must have passed any of the following: (1) Pre-calculus from the STEM or equivalent strand of K-12; (2) The Validation Examination for Math 20 (Pre-calculus: Functions and Their Graphs) administered by the UPD Institute of Mathematics; or (3) Math 20 as a non-credit course.

** Students can choose from Semiconductor Materials and Processes, Polymer Materials and Processes or Ceramic Materials and Processes as MMME elective.

As a requirement for graduation, all students must take six (6) units in one of the National Service Training Program (NSTP) components: Civic Welfare Training Service (CWTS), Literacy Training Service (LTS), and Reserved Officers' Training Corps Military Science (ROTC Mil Sci). These are offered by UPD.

** Soc Sci 1 is subject to reconfiguration.