## Materials Science and Engineering, B.S.

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This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

Course	Title	Hour
Freshman		
Fall		
CHEM 1110	General Chemistry I	4
MATH 1420	Calculus I	4
PHYSICS 1701	Physics I for Science and Engineering	4
ENGR 1000	Introduction to Engineering & Professional Practice	3
	Hours	15
Spring		
UNIFI/General Education or	University Electives	2
CHEM 1120	General Chemistry II	4
MATH 1421	Calculus II	4
PHYSICS 1702	Physics II for Science and Engineering	4
	Hours	14
Sophomore		
Fall		
UNIFI/General Education or	University Electives	3
MATH 2422	Calculus III	4
TECH 1024	Engineering Design with CAD	3
ENGR 2080	Statics	2
ENGR 2089	Engineering Seminar: (Topic)	1
ENGLISH 3772/5772	Technical Writing for Engineering Technologists	3
	Hours	16
Spring		
UNIFI/General Education or	University Electives	3
TECH 2072	Engineering Materials	3
ENGR 2180	Strength of Materials	2
PHYSICS 2700	Mathematical Methods of Physics & Engineering	3
STAT 3751	Probability and Statistics	3
Technical Elective Course		3
	Hours	17
Junior		
Fall		
UNIFI/General Education or	University Electives	6
TECH 3132/5132	Metallurgy and Phase Transformation	3
CHEM 4200/5200	Nanoscience	3
Technical Elective Course		3
Spring	Hours	15
TECH 3127	Applied Thermodynamics	3
12011 5127	reprice memorynamics	5

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versity Electives	6
versity Electives	6
ours	15
ours	15
	3
ysics of Modern Materials	3
aterial Transformations & odeling	3
nciples of Metal Casting	3
ience, Technology, and nics (STE)	3
ours	16
~	4
•	3
Materials/Scanning	3
e e	on-Destructive Evaluation Materials/Scanning ectron Microscopy omputational Materials ience ermodynamics and atistical Mechanics <b>Durs</b>