Materials Science and Engineering Technology, B.S.

Materials Science Engineering Technology, B.S.

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		6
CHEM 1120	General Chemistry II	4
PHYSICS 1702	Physics II for Science and Engineering	4
	Hours	**14**
Sophomore		
Fall		
UNIFI/General Education or University Electives		3
CHEM 2320	Chemical Analysis	3
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	**15**
Spring		
PHIL 1560	Science, Technology, and Ethics (STE)	3
TECH 2072	Engineering Materials	3
CHEM 2330	Chemical Analysis Laboratory	2
ENGR 2180	Strength of Materials	2
Technical Elective Course		3
UNIFI/General Education or University Electives		3
	Hours	**16**
Junior		
Fall		
UNIFI/General Education or University Electives		6
TECH 3142	Statistical Quality Control	3
TECH 3196	Industrial Safety	3
Technical Elective Course		3
	Hours	**15**
Spring		
UNIFI/General Education or University Electives		6
TECH 3127	Applied Thermodynamics	3
TECH 3164	Programmable Logic Controllers (PLCs)	3
TECH 3192/5192	Non-Destructive Evaluation of Materials/Scanning Electron Microscopy	3
	Hours	**15**
Senior		
Fall		
TECH 3136	Principles of Metal Casting	3
UNIFI/General Education or University Electives		9
Technical Elective Course		3
	Hours	**15**
Spring		
ENGR 4500	Senior Design	3
UNIFI/General Education or University Electives		9
Technical Elective Course		3
	Hours	**15**
	Total Hours	**120**