

MATERIALS SCIENCE ENGINEERING  
Sample Four-Year schedule starting with Pre-Calculus

**Year One**

FALL		SPRING	
MATH 1650, Pre-Calculus	5	MATH 1710, Calculus I	4
MTSE 1100, Discover How & Why Materials Matter	3	TECM 2700, Tech. Writing	3
ENGL 1310 or TECM 1700, College Writing I or Intro. to Tech. Writing	3	CHEM 1420, General Chemistry I	3
CHEM 1410 or CHEM 1415, Chemistry	3	HIST 2610, American History II	3
CHEM 1430 or CHEM 1435, Chemistry Lab	1	PSCI 2305, Federal Government/Political Science	3
Total hours	15	Total hours	16

Destination Course

Math below Calculus

**Year Two**

FALL		SPRING	
MATH 1720, Calculus II	3	MATH 3410, Diff. Equ.	3
PHYS 1710, Mechanics	3	PHYS 2220, E. & M.	3
PHYS 1730, Mechanics Lab	1	PHYS 2240, E. & M. Lab	1
HIST 2620, American History II	3	MTSE 3000, Fundamentals I	3
PSCI 2306, State Government/Political Science	3	MTSE 3001, Fundamentals II	3
Creative Arts	3	Social and Behavioral Science	3
Total hours	16	Total hours	16

**Year Three**

FALL		SPRING	
PHYS 3010, Modern Physics	3	MTSE 3050, Mechanical Properties	3
MTSE 3010, Bonding & Structure	3	MTSE 3060, Phase Transform.	3
MTSE 3020, Micro & Characterization	3	MTSE 3070, Elect., Opt., & Mag, Properties	3
MTSE 3030, Thermo & Phase Diagrams	3	MTSE 3080, Materials Processing	3
MTSE 3040, Transport Phen.	3	MTSE 3100, Laboratory II	1
MTSE 3090, Laboratory I	1	MATH 2730, Multivariable Calculus	3
Total hours	16	Total hours	16

**Year Four**

FALL		SPRING	
MTSE 4010, Phys. Metallurgy Prin.	3	MTSE 4060, Selection & Perform.	3
MTSE 4030, Ceramic Sci. & Engr.	3	MTSE 4100, Senior Design II	3
MTSE 4050, Polymer Sci. & Engr.	3	MTSE Elective	3
MTSE 4090, Senior Design I	3	MTSE Elective	3
ENGR 2301, Statics	3	Language, Philosophy, & Culture	3
Total hours	15	Total hours	15