

**TAMS Computer Science/Engineering to Materials Science and Engineering
2020-2021 Catalog Year**

Year One

FALL		SPRING	
MATH 1650, Pre-Calculus	5	MATH 1710, Calculus I	4
ENGL 1315, Writing I	3	ENGL 1325, Writing II	3
PSCI 2305 or 2306, Government	3	CHEM 1420, Chemistry II	3
CHEM 1410, Chemistry I	3	CHEM 1440, Chemistry II Lab	1
CHEM 1430, Chemistry I Lab	1	CSCE 1030, Computer Science I	4
Seminar	0	Seminar	0
Total hours	15	Total hours	15

Year Two

FALL		SPRING	
MATH 1720, Calculus II	3	PHYS 2220, Electricity and Magnetism	3
PHYS 1710, Mechanics	3	PHYS 2240, Electricity and Magnetism Lab	1
PHYS 1730, Mechanics Lab	1	ENGL 2220, World Literature	3
ENGL 2210, World Literature	3	HIST 2620, U.S. History II	3
HIST 2610, U.S. History I	3	MATH 2730, Multivar. Calculus	3
CSCE 1040, Computer Science II	3	MTSE 3000, Fundamentals I	3
MTSE 1100, Discover Materials Science	3	MTSE 3001, Fundamentals II	3
Seminar	0	Seminar	0
Total hours	19	Total hours	19

SUMMER	
TECM 2700, Technical Writing	3
MATH 3410, Differential Equations	3
Total hours	6

Year Three

FALL		SPRING	
MTSE 3010, Bonding and Structure	3	MTSE 3050, Mechanical Properties	3
MTSE 3020, Micro. And Characterization	3	MTSE 3060, Phase Transformations	3
MTSE 3030, Thermo. And Phase	3	MTSE 3070, Electrical, Optical, Magnetic	3
MTSE 3040, Transport. Phenomena	3	MTSE 3080, Materials Processing	3
MTSE 3090, Lab I	1	MTSE 3100, Lab II	1
PSCI 2305 or 2306, Government	3	Creative Arts Core	3
Total Hours	16	Total Hours	16

Year Four

FALL		SPRING	
MTSE 4010, Physical Metallurgy	3	*MTSE Elective	3
*MTSE 4030, Ceramics	3	*MTSE Elective	3
*MTSE 4050, Polymers	3	MTSE 4060, Selection and Performance	3
MTSE 1090, Design I	3	MTSE 4100, Design II	3

Social and Behavioral Sciences Core	3	Total Hours	12
Total Hours	15		

*Master of Science Grad Track Option Available.

Completion of 9 hours of grad track during bachelor's degree plan results in 21-27 hours to earn master's degree.