

**TAMS Computer Science/Engineering to Materials Science and Engineering**  
**- Sample Unofficial Schedule**  
**2023-2024 Catalog Year**

**Year One**

<b>FALL</b>		<b>SPRING</b>	
MATH 1710, Calculus I	4	MATH 1720, Calculus II	3
ENGL 1315, Writing I	3	ENGL 1325, Writing II	3
CSCE 1030, Computer Science I	4	CSCE 1040, Computer Science II	3
CHEM 1410, Chemistry I	3	CHEM 1420, Chemistry II	3
CHEM 1430, Chemistry I Lab	1	CHEM 1440, Chemistry II Lab	1
Seminar	0	Seminar	0
Total hours	15	Total hours	13

**Year Two**

<b>FALL</b>		<b>SPRING</b>	
MATH 2730, Multivar. Calculus	3	PSCI 2305 or 2306, Government	3
PHYS 1710, Mechanics	3	PHYS 2220, Electricity and Magnestim	3
PHYS 1730, Mechanics Lab	1	PHYS 2240, Electricity and Magnestim Lab	1
ENGL 2331, Literature	3	TECM 2700, Technical Writing	3
HIST 2610, U.S. History I	3	HIST 2620, U.S. History II	3
MTSE 1100, Discover Materials Science	3	MTSE 3000, Fundamentals I	3
Seminar	0	MTSE 3001, Fundamentals II	3
		Seminar	0
Total hours	16	Total hours	19

<b>SUMMER</b>	
MATH 3410, Differential Equations	3
Total hours	3

**Year Three**

<b>FALL</b>		<b>SPRING</b>	
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
ENGR 2301, Statics	3	MTSE 3110, Quantum Materials	3
Total Hours	19	Total Hours	19

**Year Four**

<b>FALL</b>		<b>SPRING</b>	
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 4090, Design I	3	MTSE 4100, Design II	3
Social and Behavioral Sciences Core	3	Total Hours	15
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.