MATERIALS SCIENCE & ENGINEERING

Sample Three-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

	YEAR ONE		
FALL MATH 2730, Multivariable Calculus (MATH 1720) PHYS 2220, E. & M. (MATH 1720, PHYS 1710, 1730) PHYS 2240, E. & M. Lab (MATH 1720, PHYS 1710, 1730) ENGR 2301, Statics (MATH 1710, PHYS 1710, 1730) MISE 1100, Discover How & Why Materials Matter	3 3 1 3 3	SPRING MATH 3410, Differential Equations (MATH 1720) PHYS 3010, Modern Physics (PHYS 2220, 2240) MTSE 3000, Fundamentals I (CHEM 1410, 1430) MTSE 3001, Fundamentals II (coreq MTSE 3000) IECM 2700, Technical Writing	3 3 3 3 3 3
Total Hours	13	Total Hours	15
FALL	YEAR TWO	SPRING	
MTSE 3010, Bonding & Structure (MTSE 3000)	3	MTSE 3050, Mechanical Properties (MTSE 3000)	3
MSTE 3020, Micro & Characterization (MTSE 3000)	3	MTSE 3060, Phase Transform. (MTSE 3010, 3030, 3040)	3
MTSE 3040, Transport Phen, (MTSE 3000, MATH 3410)	3	MTSE 3080, Materials Processina (MTSE 3040)	3 3
MTSE 3090, Laboratory I (MTSE 3000)	<u>1</u>	MTSE 3100, Laboratory II (MTSE 3090)	1
Total Hours	13	Total Hours	13
	YEAR THREE		
FALL MTSE 4010, Phys. Metallurgy Prin. (MTSE 3010, 3030, 3040) MTSE 4030, Ceramic Sci. & Engr. (MTSE 3010, 3020, 3040) MTSE 4050, Polymer Sci. & Engr. (MTSE 300) MTSE 4090, Senior Design I (see note 1) Total Hours	3 3 3 <u>3</u> 12	SPRING MTSE Advanced Level MTSE Elective (see note 2) MTSE Advanced Level MTSE Elective (see note 2) MTSE 4060, Selection & Perform. (MTSE 3030, 3040, 3050) MTSE 4100, Senior Design II (MTSE 4090) Total Hours	3 3 <u>3</u> 12

Notes:

Note 1: MTSE 4090 requires completion of MTSE 3010, 3020, 3030, 3040, 3050, 3070, 3080 as prerequisite. Note 2: Must complete prerequisite(s) for each Advanced Elective MTSE course. See your advisor for approved course options.

Must earn at least a grade of "C" and a minimum 2.5 GPA in Communications Core, TECM 2700, MATH 1710, MATH 1720, CHEM 1410, CHEM 1430, CHEM 1420, PHYS 1710, PHYS 1730, MTSE 1100, & MTSE 3000 as foundations to enroll in advanced courses.

Must earn at least a grade of "C" in each course above except for most University Core courses.

Credits Which <u>Could</u> Be Earned Prior to Enrollment at UNT – AP, IB, CLEP, DC, Transfer:	Credits Which <u>Should</u> Be Earned Prior to Enrollment at UNT – AP, IB, CLEP, DC, Transfer:
Communications Core HIST 2610 HIST 2620 PSCI 2305 PSCI 2306 Creative Arts Core Language Philosophy Culture Core Social Behavioral Sciences Core	MATH 1710 MATH 1720 CHEM 1410, 1430 CHEM 1420 PHYS 1710, 1730

This is an unofficial sample schedule. Requirements, prerequisites, etc. may change. Students should meet with an advisor each semester for individual scheduling, program decisions, etc. Engineering admissions requirements must be met & a degree audit must be created in order to progress in the program to a timely graduation.