

# MECHANICAL & ENERGY ENGINEERING

## Sample Four-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

### YEAR ONE

#### FALL

MATH 2730, Multivariable Calculus (MATH 1720)	3
PHYS 2220, E. & M. (MATH 1720, PHYS 1710, 1730)	3
PHYS 2240, E. & M. Lab (MATH 1720, PHYS 1710, 1730)	1
MEEN 2301, Mech I (MEEN 1000, PHYS 1710, 1730)	3
MEEN 2240, Prog. Mech. Engr. (MEEN 1000, Co MATH 2700)	3
MATH 2700, Linear Algebra (MATH 1720)	<u>3</u>
Total Hours	16

#### SPRING

MATH 3410, Diff. Equ. (MATH 1720, coreq MATH 2700)	3
ENGR 1304, Engineering Graphics	3
MEEN 2302, Mech II (MEEN 2301, MATH 1720)	3
MEEN 2332, Mech III (MEEN 2301)	3
TECM 2700, Technical Writing	3
MEEN 2110, Engr. Data Analysis (MATH 2700, MEEN 1000)	<u>2</u>
Total Hours	17

#### SUMMER

MEEN 2210, Thermo (MEEN 1000, MATH 1720, PHYS 1710)	<u>3</u>
	3

### YEAR TWO

#### FALL

MEEN 3110, Thermodynamics II (MEEN 2210)	3
MEEN 3120, Fluids (MATH 2730, 3410, MEEN 2210, 2332)	3
MEEN 3240, Lab I (MEEN 2110, MEEN 2210, MATH 3410)	2
MEEN 3250, Analy. Methods (MEEN 2240, MATH 3410)	3
MTSE 3000, Materials (see note 5)	3
MTSE 3003, Materials Lab (see note 5)	<u>1</u>
Total Hours	15

#### SPRING

EENG 2610 or ENGR 2405, Circuit (Analysis see note 4)	3
MEEN 3130, Mach. Elem. (MEEN 2332, ENGR 1304)	3
MEEN 3210, Heat Transfer (MEEN 3110, 3120, 3250)	3
MEEN 3230, Dyna. & Contls (MEEN 2302, MATH 2700, 3410)	3
MEEN 3242, Lab II (MEEN 3240, 3120, 3210 or co)	<u>1</u>
Total Hours	13

### YEAR THREE

#### FALL

MEEN 3100, Manufact. (MEEN 2332, MTSE 3000, 3003)	3
MEEN 4150, Design I (see note 6)	3
Energy Elective (see note 7)	3
Technical Elective (see note 7)	<u>3</u>
Total Hours	12

#### SPRING

MEEN 4250, Capstone Design (MEEN 4150)	3
Energy Elective (see note 7)	3
Technical Elective (see note 7)	<u>3</u>
Total Hours	9

#### Notes:

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 with a grade of "C" or higher; or completion of MATH 1610 with a grade of "C" or higher; or Freshman Math Group Level 3; or approval authorized by score via mathematics testing; or earned credit for a math course at or above the MATH 1710 level.

Note 2: CHEM 1410 & 1430 requires MATH 1100, College Algebra, or placement into a higher level math course as prerequisite. CHEM 1415 & 1435 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 3: MEEN 1000 requires MATH 1650, Pre-Calculus, or placement into a higher level math course as prerequisite.

Note 4: EENG 2610 or ENGR 2405 require MATH 1720 as prerequisite and PHYS 2220, 2240 as prerequisite or corequisite.

Note 5: MTSE 3000, 3003 requires PHYS 1710 and CHEM 1410, 1430 or CHEM 1415, 1435 as prerequisite.

Note 6: MEEN 4150 requires EENG 2610 or ENGR 2405, MEEN 3130, MEEN 3210, MEEN 3230, MEEN 3242 & completion or concurrent enrollment in MEEN 3100 as prerequisite.

Note 7: Must complete appropriate prerequisite(s) for energy & technical electives. Please check with an advisor.

**Must earn at least a grade of "C" & a minimum 2.5 GPA in Communications Core, TECM 2700, MATH 1710, MATH 1720, PHYS 1710, PHYS 1730, MEEN 1000, MEEN 2210, MEEN 2301, & MEEN 2302 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 Could Be Earned Prior to Enrollment at  
UNT – AP, IB, CLEP, DC, Transfer:

Communications Core	MEEN 1000 (via ENGR 1201)
HIST 2610	
HIST 2620	
PSCI 2305	
PSCI 2306	
Creative Arts Core	
Language Philosophy Culture Core	
Social Behavioral Sciences Core	

Credits Which Should Be Earned Prior to Enrollment at  
UNT – AP, IB, CLEP, DC, Transfer:

MATH 1710
MATH 1720
PHYS 1710 & 1730
CHEM 1410 & 1430

**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.**