

MECHANICAL and ENERGY ENGINEERING (TCCNS)

Sample 3.5 –Year Schedule

Required prerequisite(s) indicated in parentheses & notes

YEAR ONE

FALL	
PHYS 2426, Physics 2 (Cal 2; PHYS 1)	4
ENGR 1304, Engineering Graphics	3
ENGR 2301, Statics (Cal 1; PHYS 1)	3
MATH 2318, Linear Algebra (Cal 2)	3
ENGR 1201, Intro to Engineering (Algebra)	2
Total Hours	14

SPRING	
ENGR 2302, Dynamics (Statics; Cal 2)	3
ENGR 2332, Mechanics of Materials (Statics)	3
ENGL 2311, Technical Writing (Communication Core)	3
ENGR 2405, Circuit Analysis w/ Lab (PHYS 2)	4
MATH 2315, Multivariable Calculus/Cal 3 (Cal 2)	3
Total Hours	16

YEAR TWO

FALL	
MATH 3410, Differential Equations (Cal 2)	3
MEEN 2240, Prog/MATlab (Linear Alg; ENGR 1201)	3
MEEN 2210, Thermo 1 (ENGR 1201; Cal 2; Physics 1)	3
MEEN 2110, Data Analysis (ENGR 1201; Linear Alg)	3
MTSE 3000, Materials (CHEM)	3
MTSE 3003, Materials Lab (co-req w/ MTSE 3000)	1
Total Hours	16

SPRING	
MEEN 3240, Lab 1 (MEEN 2110, 2210; MATH 3410)	2
MEEN 3120, Fluids (Linear Alg; MATH 3410; MEEN 2210,2332)	3
MEEN 3110, Thermo 2 (MEEN 2210)	3
MEEN 3250, Analytical Methods (MEEN 2240; MATH 3410)	3
MEEN 3130, Machine Elements (ENGR 2332)	3
Total Hours	14

YEAR THREE

FALL	
MEEN 3210, Heat Transfer (MEEN 3110, 3120, 3250)	3
MEEN 3242, Lab 2 (MEEN 32)	1
MEEN 3230, Dynamics & Controls (MEEN 2302; MATH 2700,3410)	3
MEEN 3130, Machine Elements (MEEN 2332)	3
Total Hours	10

SPRING	
MEEN 4150, Sr. Design 1 (MEEN3130,3210,32303242;EENG2610)	3
MEEN 3100, Manufacturing (MEEN 3223; MTSE 3000 & 3003)	3
Energy Elective	3
Technical Elective	3
Total Hours	12

FINAL SEMESTER

FALL	
MEEN 4250, Capstone Design (MEEN 4150)	3
Energy Elective	3
Tech Elective	3
Total Hours	9

Notes:

Must earn at least a grade of “C” and a minimum 2.0 GPA in Communication Core, Engineering Graphics, Linear Algebra, PHYS 2 TECM 2700, ENGR 2301 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.

GREEN = Community College Equivalent courses

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

Communications Core **ENGL 1301**
HIST 2610 – **HIST 1301** CHEM1410/1430-**CHEM1411**
HIST 2620 – **HIST 1302**
PSCI 2305 – **GOVT 2305**
PSCI 2306 – **GOVT 2306**
Creative Arts Core
Language Philosophy Culture Core
Social & Behavioral Science

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

MATH 1710 – **MATH 2313 or 2413** MATH 2700 – **MATH 2318**
MATH 1720 – **MATH 2314 or 2414** MATH 2730 – **MATH 2315**
PHYS 1710 & 1730 – **PHYS 2425** MEEN 1000 – **ENGR 1201**
PHYS 2220 & 2240 – **PHYS 2426** MEEN 2301 – **ENGR 2301**
EENG 2610 – **ENGR 2405** MEEN 2302 – **ENGR 2302**
TECM 2700 – **ENGL 2311** MEEN 2332 – **ENGR 2332**
ENGR 1304 – **ENGR 1304**

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.