MECHANICAL & ENERGY ENGINEERING

Sample Four-Year Schedule

Required prerequisite(s) indicated in parentheses & notes

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

FRESHMAN YEAR

FALL		SPRING	
MATH 1710, Calculus I (see note 1)	4	MATH 1720, Calculus II (MATH 1710)	3
CHEM 1410 or 1415, Chemistry (see note 2)	3	PHYS 1710, Mechanics (MATH 1710)	3
CHEM 1430 or 1435, Chemistry Lab (see note 2)	1	PHYS 1730, Mechanics Lab (MATH 1710)	1
MEEN 1000, Discover Mech. & Energy (see note 3)	3	ENGR 1304, Engineering Graphics	3
Communication Core course	3	TECM 2700, Tech Writing (Communication Core)	3
University Core course	3	University Core course	3
Total Hours	17	Total Hours	16

SOPHOMORE YEAR

FALL		SPRING	
MATH 2730, Multivariable Calculus (MATH 1720)	3	MATH 3410, Diff. Equ. (MATH 1720, coreq MATH 2700)	3
PHYS 2220, E.& M. (MATH 1720, PHYS 1710, 1730)	3	MEEN 2210, Thermo (MEEN 1000, MATH 1720, PHYS 1710)	3
PHYS 2240, E. & M. Lab (MATH 1720, PHYS 1710, 1730)	1	MEEN 2302, Mech II (MEEN 2301, MATH 1720)	3
MEEN 2301, Mech I (PHYS 1710, 1730, MEEN 1000)	3	MEEN 2332, Mech III (MEEN 2301)	3
MEEN 2240, Prog. Mech. Engr. (MEEN 1000, MATH 2700 or co)	3	EENG 2610 or ENGR 2405, Circuit Analysis (see note 4)	3
MATH 2700, Linear Algebra (MATH 1720)	3	MEEN 2110, Engr. Data Analysis (MATH 2700, MEEN 1000)	2
Total Hours	16	Total Hours	17

JUNIOR YEAR

FALL		SPRING	
MEEN 3110, Thermodynamics II (MEEN 2210)	3	University Core course	3
MEEN 3120, Fluids (MATH 2730, 3410, MEEN 2210, 2332)	3	MEEN 3130, Mach. Elem. (MEEN 2332, ENGR 1304)	3
MEEN 3240, Lab I (MEEN 2110, MEEN 2210, MATH 3410)	2	MEEN 3210, Heat Transfer (MEEN 3110, 3120, 3250)	3
MEEN 3250, Analy. Methods (MEEN 2240, MATH 3410)	3	MEEN 3230, Dyna. & Contls (MEEN 2302, MATH 2700, 3410)	3
MTSE 3000, Materials (CHEM reqt.)	3	MEEN 3242, Laboratory II (MEEN 3240, MEEN 3210 or co)	1
MTSE 3003, Materials Lab (CHEM reqt.)	1	University Core course	3
Total Hours	15	Total Hours	16

SENIOR YEAR

FALL		SPRING	
MEEN 3100, Manufact. (MEEN 2332, MTSE 3000, 3003)	3	MEEN 4250, Capstone Design (MEEN 3100, MEEN 4150)	3
MEEN 4150, Design I (see note 5)	3	Energy Elective (see note 6)	3
Energy Elective (see note 6)	3	Technical Elective (see note 6)	3
Technical Elective (see note 6)	3	University Core course	3
University Core course	3	University Core course	3
Total Hours	15	Total Hours	15

Notes:

Note 1: MATH 1710 requires one of the following as prerequisite: completion of MATH 1650 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: 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 6: Must complete appropriate prerequisite(s) for energy & technical electives. Graduate Track option available.

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.

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.