

Name: \_\_\_\_\_  
 ID#: \_\_\_\_\_

**IMPORTANT NOTES:**

- Students are responsible for achieving a 2.25 GPA in their major to graduate as well as meeting all graduation minimums
- Any changes/exceptions to this Degree Plan must be filed via the Undergraduate Degree Plan Exceptions Form (see your advisor FMI)
- See your Faculty Mentor every semester (RECOMMENDED). See your Academic Advisor as needed.
- This degree plan remains an unofficial document until certified by the Dean of the College of Science & Engineering .
- Prerequisites and semesters offered are subject to change with each catalog year
- Students are responsible for taking courses in the proper sequence to ensure orderly progression of work
- You must maintain a minimum GPA of 2.0 throughout your academic career to avoid Academic Probation or Suspension
- Upper division classes are any 3xxx or 4xxx level classes, you must have 45 upper division hrs to graduate

**UNIVERSITY CORE CURRICULUM**

	Grade	Hrs	Prerequisites
COMM 1311 FOUNDATION OF COMMUNICATION	3	n/a	
ENGL 1302 COMPOSITION II	3	n/a	
MATH 2413 CALCULUS I	4	Math placement	
CHEM 1411 GENERAL CHEMISTRY I	4	Math 1314	
PHYS 2425 UNIVERSITY PHYSICS I	4	Math 2413	
LANGUAGE, PHILOSOPHY & CULTURE	3	n/a	
CHOOSE ONE: ENGL 2332,2333,2334 OR 2335 OR SPAN 3307,3308, 3309 OR 3310 OR PHIL 1301 OR 2306			
HIST 1301 US HISTORY TO 1865	3	n/a	
HIST 1302 US HISTORY SINCE 1865	3	n/a	
POLS 2305 US GOVT & POLITICS	3	n/a	
POLS 2306 STATE/LOCAL POLITICS	3	n/a	
CREATIVE ARTS	3	n/a	
CHOOSE ONE: ARTS 1301 OR 1303, MUSI 1306 OR 1307 OR THEA 1310 OR 1351 OR COMM 1305			
SOC SCIENCE COMPONENT	3	n/a	
AREA OPTION	4	n/a	
MATH 2414 CALCULUS II			

**COMMON ENGINEERING, MATH & SCIENCE COURSES**

MATH 2413, MATH 2414, PHYS 2425, PHYS 2426	SEE ABOVE		
COSC 1330 PROGRAMMING FOR SCIENTISTS, ENGINEERS & MATHEMATICIANS	3	Math 1314 or beyond	
MATH 2415 CALCULUS III	4	Math 2414	
PHYS 2426 UNIVERSITY PHYSICS II	4	Phys 2425 and Math 2414	
MATH 3315 DIFFERENTIAL EQUATIONS	3	Math 2414	
ENGR 1211 FOUNDATIONS OF ENGINEERING I	2	n/a	
ENGR 1312 FOUNDATIONS OF ENGINEERING II	3	Engr 1211	
ENGR 2316 THERMODYNAMICS	3	Phys 2425, Math 2414	
ENGR 2322 MATERIALS SCIENCE	3	Phys 2425	
ENGR 2325 STATICS	3	Phys 2425	
ENGR 2326 DYNAMICS	3	Engr 2325	
ENGR 2460 CIRCUIT ANALYSIS	4	Phys 2426	
ENGR 3315 FLUID MECHANICS	3	Engr 2326, Math 3315 & Math 3470	
ENGR 3320 STRENGTH OF MATERIALS	3	Engr 2325 & Engr 2322	
ENGR 3350 MANUFACTURING PROCESSES	3	Engr 1312, Engr 3320 and Engr 2326	

**REQUIRED MECHANICAL ENGINEERING COURSES**

MEEN 3310 ENGINEERING ANALYSIS FOR MECH ENG	3	Math 3315	
MEEN 3330 SOLID MECHANICS FOR MECHANICAL ENGINEERING	3	Engr 3320	
MEEN 3230 SOLID MECHANICS LAB	2	Pre-req or Co-req with Meen 3330	
MEEN 3345 HEAT TRANSFER	3	Engr 2316	
MEEN 4240 PROJECT MANAGEMENT	2	Meen 3330 & Meen 3345	
MEEN 4351 DYNAMICAL SYSTEMS ANALYSIS AND MODELING	3	Cosc 1330, Engr 2460, meen 3345	
MEEN 4420 ENGINEERING LAB MEASUREMENTS	4	Engr 2460 and Senior Standing	
MEEN 4360 THERMAL SYSTEM DESIGN	3	Meen 3345	
MEEN 4365 MECHANICAL SYSTEM DESIGN	3	Meen 3330	
MEEN 4370 CAPSTONE PROJECTS	3	Meen 4240 & coreq Meen 4360 & 4365	

**TECHNICAL ELECTIVES BLOCK (FOUR COURSES FROM THE FOLLOWING LIST FOR A TOTAL OF 12 HRS.)**

**COMPLETE ONE OF THIS COURSE:**

MATH/PHYSICS/CHEM/BIOL - 3xxx or 4xxx upper level 3

**SELECT THREE OF THE FOLLOWING COURSES:**

MEEN 3335 INTRO TO UNMANNED AIRCRAFT SYSTEMS	3	Junior Level Standing	
MEEN 3340 SOLID MODELING AND FINITE ELEMENTS	3	Meen 3310, Engr 3320	
MEEN 4325 ENERGY CONVERSION	3	Engr 2316	
MEEN 4330 INTR TO PLASMA ENGINEERING & APPL	3	Engr 2322 & Engr 2460 or Phys 2426	
MEEN 4335 INTR TO AIRCRAFT AERODYNAMICS & PERF	3	Engr 2326 & Cosc 1330	
MEEN 4345 SENSORS AND SYSTEMS	3	Math 2414, Phys 2426 & Engr 2460	
MEEN 4350 CONTROLS, AUTOMATIONS AND ROBOTICS	3	Math 3315, Engr 2326 & Engr 2460	
MEEN 4355 MARINE FABRICATION	3	Engr 3350	
MEEN 4375 FUEL CELLS	3	Engr 2316, Meen 3345 & Chem 1411	
MEEN 4380 RENEWABLE ENERGY	3	Engr 2316, Engr 2460, Meen 4325	
MEEN 4385 OFFSHORE ENERGY MANAGEMENT	3	Meen 3345	
MEEN 4390 INTRO TO COMPUTATIONAL FLUID DYNAMICS	3	Meen 3345	
MEEN 4395 OFFSHORE WATER EXPLORATION & DESALINATION SYST	3	Engr 2316	
EEEN 4333 MACHINE VISION AND IMAGE PROCESSING	3	Cosc 1330 or 1435 & Engr 2460 or 2305	
ENGR 4390 SPECIAL TOPICS IN ENGINEERING	Varies	Varies	
ENTC 4496 DIRECTED INDEPENDENT STUDY	Varies	Varies	

**UNIVERSITY REQUIREMENTS**

FOREIGN LANGUAGE (2 SEMESTERS)		Met via HS Transcript or College-level course
UCCP 1101 FIRST-YEAR SEMINAR	1	n/a
UCCP 1102 FIRST-YEAR SEMINAR	1	n/a

**GENERAL ELECTIVES**

none required

**TOTALS FOR DEGREE PLAN**

TOTAL HOURS: 130 128 WITH NO UCCP  
 TOTAL UPPER DIVISION HOURS (MIN 45) 53