

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING- TENTATIVE DEGREE PLAN
2020-2021 CATALOG YEAR

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 1301 COMPOSITION I	3		
ENGL 1302 COMPOSITION II	3	n/a	
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	
HIST 2301 TEXAS HISTORY	3		
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	
PSYC 2301 OR SOCI 1301 OR ECON 2301 OR 2302			
AREA OPTION	4	n/a	
MATH 2413	4	Math placement	
CHEM 1411	4	Math 1314	
PHYS 2425	4	Math 2413	

COMMON ENGINEERING, MATH & SCIENCE COURSES

	Grade	Hrs	Prerequisites
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 INTRODUCTION TO ENGINEERING	2	n/a	
ENGR 1312 ENGINEERING GRAPHICS I	3	Engr 1211	
ENGR 3316 THERMODYNAMICS	3	Phys 2425, Math 2414	
ENGR 3322 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

	Grade	Hrs	Prerequisites
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, Pre-req or Co-req Engr 3315	
ENGR 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	
ENGR 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/BIOLOGICAL - 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	