

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY- TENTATIVE CURRICULUM SHEET
CATALOG YEAR 2019-2020

Name: _____
 ID#: _____

IMPORTANT NOTES:

Students are responsible for achieving a 2.25 GPA in their major courses 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)
 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
 You must earn 45 hours of upper division coursework and 36 of the hours must be earned at TAMUCC

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	*	3	Math placement
_____	CHEM 1411 GENERAL CHEMISTRY I	*	3	Math 1314
_____	PHYS 2425 UNIVERSITY PHYSICS I	*	3	Math 2413
_____	LANGUAGE, PHILOSOPHY & CULTURE		3	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 GOVT		3	n/a
_____	CREATIVE ARTS		3	CHOOSE ONE: ARTS 1301 OR 1303 OR MUSI 1306 OR 1307 OR THEA 1310 OR 1351 OR COMM 1305
_____	SOC SCIENCE COMPONENT		3	PSYC 2301 OR SOCI 1301 OR ECON 2301 OR 2302
_____	AREA OPTION		6	(MATH 2414 CALCULUS II)

COMMON ENGINEERING TECHNOLOGY COURSES

_____	MATH 2413	CALCULUS I	1	See Above
_____	PHYS 2425	UNIVERSITY PHYSICS I	1	Math 2413
_____	PHYS 2426	UNIVERSITY PHYSICS II	1	Phys 2425 and Math 2414
_____	MATH 2414	CALCULUS II	1	Math 2413
_____	ENGR 1211	FOUNDATIONS OF ENGINEERING I	2	n/a
_____	ENGR 1312	FOUNDATIONS OF ENGINEERING II	3	n/a
_____	COSC 1330	PROGRAMMING FOR SCIENTISTS, ENGINEERS AND MATHEMATICIANS	3	Math 1314 or beyond
_____	CHEM 1411	GENERAL CHEMISTRY I	1	Math 1314 or beyond
_____	ENTC 2414	CIRCUIT ANALYSIS I	4	Math 2414 and co-req Phys 2426
_____	ENTC 3320	THERMODYNAMICS	3	Phys 2425 & Math 2414
_____	ENTC 4446	CONTROL SYSTEMS I	4	Entc 2414
_____	ENTC 4415	PROJECT JUSTIFICATION & MANAGEMENT	4	Senior Standing (take semester prior to ENTC 4350)
_____	ENTC 4350	CAPSTONE PROJECT	3	Take final long sem before grad, pre-req ENTC 4415

REQUIRED MECHANICAL ENGINEERING TECHNOLOGY COURSES

_____	ENTC 3302	MANUFACTURING PROCESSES	3	Engr 1312, Entc 3308, Entc 2326
_____	ENTC 2325	STATICS	3	Phys 2425
_____	ENTC 2326	DYNAMICS	3	Entc 2325 or Engr 2325
_____	ENTC 3220	THERMAL/FLUIDS LAB	2	Pre-req or co-req Entc 3306 and Entc 3320
_____	ENTC 3306	FLUID MECHANICS	3	Entc 2326 or Engr 2326
_____	ENTC 3308	STRENGTH OF MATERIALS	3	Entc 2325 & Entc 3410
_____	ENTC 3350	HUMAN FACTORS ENGINEERING	3	Entc 3302
_____	ENTC 3410	MATERIAL SCIENCE	4	Chem 1411 Phys 2425
_____	ENTC 3455	SOLID MODELING & FINITE ELEMENTS	4	Entc 3308
_____	ENTC 4210	SOLID MECHANICS LAB	2	Pre-req or co-req Entc 4330
_____	ENTC 4320	HEAT TRANSFER	3	Entc 3306 and Entc 3320
_____	ENTC 4330	SOLID MECHANICS	3	Entc 3308

TECHNICAL ELECTIVES BLOCK:

COMPLETE ONE OF THE FOLLOWING COURSES:

_____	UPPER DIVISION MATH, SCIENCE OR MECHANICAL ENGINEERING COURSE:	3	Varies
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SELECT THREE OF THE FOLLOWING COURSES:

_____	ENTC 3323	ROBOTICS & AUTOMATION	3	Entc 2414
_____	ENTC 4322	PROGRAMMABLE LOGIC CONTROLLERS	3	Entc 2414
_____	ENTC 4335	ENERGY CONVERSION	3	Entc 3420
_____	ENTC 4360	MECHANICAL SYSTEM DESIGN	3	Entc 3408
_____	ENTC 4490	SELECTED TOPICS (3-4 HRS)	3 or 4	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 (MIN 125): **123** (121 WITH NO UCCP)
 TOTAL UPPER DIVISION HOURS (MIN 45)