

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING- TENTATIVE DEGREE PLAN
2019-20 CATALOG YEAR

Name: _____
 ID#: _____

IMPORTANT NOTES:

- You must maintain a minimum GPA of 2.0 throughout your academic career to avoid Academic Probation or Suspension
- Students are responsible for achieving a 2.25 GPA in their major courses to graduate as well as meeting all graduation minimums
- 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 earn 45 hours of upper division coursework and 36 of the hours must be earned at TAMUCC
- The Core Curriculum Math and Science courses listed below are the required courses for this program and may be different if a student changes majors

UNIVERSITY CORE CURRICULUM

		Grade	Hrs	Prerequisites
COMM 1311	FOUNDATION OF COMMUNICATION		3	n/a
ENGL 1302	COMPOSITION II		3	n/a
LANGUAGE, PHILOSOPHY & CULTURE	CHOOSE ONE: Engl 2316, 2332, 2333, or Span 3307, 3308, 3309 or 3310 or Phil 1301 or 2306		3	varies
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	CHOOSE ONE: ARTS 1301 OR 1303, MUSI 1306 OR 1307 OR THEA 1310 OR COMM 1305		3	n/a
SOCIAL & BEHAVIORAL SCIENCES	CHOOSE ONE: Psyc 2301 or Soci 1301 or Econ 2301 or 2302		3	n/a
MATH 2413	CALCULUS I		4	Math placement
CHEM 1411	GENERAL CHEMISTRY I		4	Math 1314 or beyond
PHYS 2425	UNIVERSITY PHYSICS I		4	Math 2413
MATH 2414	CALCULUS II		4	Math 2413

COMMON ENGINEERING, MATH & SCIENCE COURSES

MATH 2413, MATH 2414, CHEM 1411, PHYS 2425 (see above)

MATH 2305	DISCRETE MATH I		3	Math placement
MATH 2415	CALCULUS III		4	Math 2414
MATH 3315	DIFFERENTIAL EQUATIONS		3	Math 2414
MATH 3311	LINEAR ALGEBRA		3	Math 2413
MATH 3345	STATISTICAL MODELING AND DATA ANALYSIS		3	Math 2413
PHYS 2426	UNIVERSITY PHYSICS II		4	Phys 2425 and Math 2414
COSC 1330	PROGRAMMING FOR SCIENTISTS, ENGINEERS & MATHEMATICIANS		3	Math 1314 or beyond
ENGR 1211	INTRODUCTION TO ENGINEERING		2	n/a
ENGR 2306	DIGITAL SYSTEMS		3	Math 1314 or beyond & coreq ENGR 2106
ENGR 2106	DIGITAL SYSTEMS LAB		1	Co-req Engr 2306
ENGR 3316	THERMODYNAMICS		3	Phys 2425, Math 2414
ENGR 3322	MATERIALS SCIENCE		3	Phys 2425 & Chem 1411
ENGR 2325	STATICS		3	Phys 2425
ENGR 2460	CIRCUIT ANALYSIS		4	Phys 2426

REQUIRED ELECTRICAL ENGINEERING COURSES

EEEN 3310	ELECTROMAGNETIC THEORY		3	Phys 2426, Math 2415, Math 3315, Eeen 3315
EEEN 3315	ELECTRICAL CIRCUITS II		3	Engr 2460 or Engr 2305 & 2301
EEEN 3320	INTRO TO COMMUNICATION THEORY & SYSTM		3	Engr 2460 or Engr 2305 and Math 3342
EEEN 3330	CONTROL SYSTEMS I		3	Engr 2460 or Engr 2305 & 2301
EEEN 3350	ELECTRONIC SYSTEMS DESIGN		3	Engr 2306, Eeen 3315
EEEN 3418	MICROPROCESSOR/MICROCONTROLLER		4	Cosc 1330 or 1435
ENGR 4240	PROJECT MANAGEMENT		2	Eeen 3310, Eeen 3330, Eeen 3350
EEEN 4310	SIGNAL PROCESSING		3	Eeen 3330
EEEN 4333	MACHINE VISION & IMAGE PROCESSING APPS		3	Cosc 1330 or 1435 & Engr 2460 or Engr 2305
ENGR 4370	CAPSTONE DESIGN		3	Eeen 4240 & coreq Eeen 4333
EEEN 4420	ENGINEERING MEASUREMENTS		4	Engr 2460 or Engr 2305 & senior level standing

TECHNICAL ELECTIVES BLOCK (THREE COURSES FROM THE FOLLOWING LIST)

EEEN 4330	INTRO TO PLASMA ENGR & APPLICATIONS		3	Engr 2322, Engr 2460 or Engr 2305
MEEN 3335	INTRO TO UNMANNED AIRCRAFT SYSTEMS		3	junior level standing
MEEN 4335	INTRO TO AIRCRAFT AERODYNAMICS & PERFORMANCE		3	Engr 2326
MEEN 4350	CONTROLS, AUTOMATION AND ROBOTICS		3	Math 3315, Engr 2326, Engr 2460
MEEN 4375	FUEL CELLS		3	Engr 2316, Meen 3345 & Chem 1411
MEEN 4380	RENEWABLE ENERGY		3	Engr 2316, Engr 2460, Meen 4325
EEEN 4390	SPECIAL TOPICS		3	Varies
EEEN 3345	ELECTRONIC DEVICES & CIRCUITS		3	Eeen 3315
EEEN 4331	POWER TRANSMISSION & DISTRIBUTION		3	Eeen 3315
EEEN 4332	POWER PROTECTION SYSTEMS		3	Eeen 3315 and senior level standing
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 if not required to take UCCP courses)
 TOTAL UPPER DIVISION HOURS (MIN 45) 52