

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING- TENTATIVE DEGREE PLAN
2017-18 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: Psysc 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 FOUNDATIONS OF ENGINEERING I	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 2316 THERMODYNAMICS	3	Phys 2425, Math 2414
ENGR 2322 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
EEEN 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
EEEN 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