

Name: \_\_\_\_\_  
ID#: \_\_\_\_\_**DRAFT****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		4	Math placement
CHEM 1411 GENERAL CHEMISTRY I		4	Math 1314
PHYS 2425 UNIVERSITY PHYSICS I		4	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 COMPONENT		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		4	MATH 2414 CALCULUS II

**COMMON ENGINEERING TECHNOLOGY COURSES**

MATH 2413, MATH 2414, PHYS 2425, CHEM 1411

See Above

PHYS 2426 UNIVERSITY PHYSICS II	4	Phys 2425 and Math 2414
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
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 3410 MATERIAL SCIENCE	4	Chem 1411 Phys 2425
ENTC 3308 STRENGTH OF MATERIALS	3	Entc 2325 & Entc 3410
ENTC 4330 SOLID MECHANICS	3	Entc 3308
ENTC 3210 SOLID MECHANICS LAB	2	Pre-req or co-req Entc 4330
ENTC 3306 FLUID MECHANICS	3	Entc 2326 or Engr 2326
ENTC 3350 HUMAN FACTORS ENGINEERING	3	Entc 3302
ENTC 3455 SOLID MODELING & FINITE ELEMENTS	4	Entc 3308
ENTC 4320 HEAT TRANSFER	3	Entc 3306 and Entc 3320

**TECHNICAL ELECTIVES BLOCK:****COMPLETE ONE OF THE FOLLOWING COURSES:**

UPPER DIVISION MATH, SCIENCE OR MECHANICAL ENGINEERING COURSE: 3 Varies

**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)	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 (MIN 125):	<b>123</b>	(121 WITH NO UCCP)
TOTAL UPPER DIVISION HOURS (MIN 45)	<b>56</b>	