Texarkana College

Hooks High School Early Enrollment Pathway Plan

Associate of Science Degree
Major: Engineering

Student Name_____ TC ID#_____

Academic Coach for Dual Credit (AC/DC) _____

TSIA2 Eng_____TSIA2 Math_____ACT_____PSAT_____EOC Eng II_____EOC Alg. I + Alg. II C+_____

Advising Dates: _____ _____ _____ _____ _____

TC Course	Courses Title	Credit Hours	Grade Level Completed	Grade Level Course is Available	Comments/Planning
CORE COURSES - 45 Total Hours					
ENGL 1301	Composition I [1]	3		11 or *EA	
ENGL 1302 OR ENGL 2311	Composition II[1] OR Technical & Business Writing[1]	3		11 or *EA	
EDUC/PSYC 1300	Learning Frameworks[9]	3		9, 10, 11, 12 or *EA	
MATH 1316	Plane Trigonometry[9]	3		11, 12 or *EA	
HIST 1301	United States History I[6]	3		11 or *EA	
HIST 1302	United States History II[6]	3		11 or *EA	
XXXX xxxx	Creative Arts Elective[5]	3		11, 12 or *EA	
XXXX xxxx	Social & Behavioral Science[8]	3		*EA	
SPCH 1315 OR SPCH 1321	Public Speaking[9] OR Business & Professional Communication[9]	3		*EA	
XXXX xxxx	ENGL 2327/2328 American Literature I/II [4] ENGL 2332/2333 World Literature I/II [4] HIST 2321/2322 World Civilizations I/II [4] PHIL 2306 Introduction to Ethics [4]	3		11, 12 or *EA	
GOVT 2305	Federal Government[7]	3		*EA	
GOVT 2306	Texas Government[7]	3		*EA	
CHEM 1311	General Chemistry I Lecture[12]	3		11, 12 or *EA	
CHEM 1111	General Chemistry I Lab[12]	1		11, 12 or *EA	
PHYS 2325	University Physics I Lecture[12]	3		*EA	
PHYS 2125	University Physics I Lab[12]	1		*EA	
TOTAL CORE HOURS		**44**			
ADDITIONAL COURSES FOR DEGREE – 15 Total Hours					
MATH 2413	Calculus I[12]	4		11, 12 or *EA	
MATH 2414	Calculus II[12]	4		*EA	
*MATH xxxx	*MATH 2318 Linear Algebra[12] *MATH 2320 Differential Equations[12] MATH 2415 Calculus III[12]	*3+1/4		*EA	
PHYS 2326	University Physics II Lecture[12]	3		*EA	
PHYS 2126	University Physics II Lab[12]	1		*EA	
*XXXX xxxx	*Free Elective	*1		#	*1 SCH Free Elective Required only if a 3 SCH MATH course is selected in final semester
TOTAL NON-CORE HOURS		**16**			
Total Credit Hours		**60**			

Many courses have pre-requisite or co-requisites and/or TSI requirements that must be met. Check course descriptions in the TC Catalog. Students planning to transfer to a four-year institution should check degree requirements of the college or university to which they plan to transfer.

*Course offered through TC's Early Admission program.   #DC/EA course(s) not used to fulfill degree requirements. Grade levels for DC vary by course.

Explanation for Superscripts

1	**Communication Block (010):** *Complete each of the following: ENGL 1301 **and** ENGL 1302 or 2311*	2	**Mathematics Block (020):** *Complete one of the following: MATH 1314, 1316, 1324, 1325, 1332, 1350, 1442, 2412, or 2413*
3	**Life & Physical Sciences Block (030):** *Complete two of the following: BIOL 1306, 1307, 1308, 1309, 1311, 1313, 1322, 2301, 2302, 2306, 2320, 2321; CHEM 1305, 1307, 1311, 1312, 1419; GEOL 1303; PHYS 1301, 1303, 1304, 1315, 2325*	4	**Language, Philosophy, & Culture Block (040):** *Complete one of the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341; HIST 2321, 2322; PHIL 2306*
5	**Creative Arts Block (050):** *Complete one of the following: ARTS 1301, 1310; DRAM 1310, 2366; MUSI 1306*	6	**American History Block (060):** *Complete each of the following: HIST 1301 **and** 1302*
7	**Government/Political Science Block (070):** *Complete each of the following: GOVT 2305 **and** 2306*	8	**Social & Behavioral Sciences Block (080):** *Complete one of the following: COMM 1307; ECON 2301, 2302; GEOG 1303; PSYC 2301, 2308, 2314; SOCI 1301*
9	**Component Area Option Block (090): 9A: Choose one from the following:** *SPCH 1315; SPCH 1318; SPCH 1321* ***OR*** *any courses in Component Areas (010), (020), (030), (040), (050), & (080) that are not used to fulfill another core requirement except MATH 2413, which is listed below.* ***AND*** ***9B: Choose one from the following:*** *BCIS 1305; MATH 2413; PSYC/EDUC 1300*	10	**Lab Science Course** *Choose a lab science course that corresponds to the Life & Physical Sciences courses you take: BIOL 1106, 1107, 1108, 1109, 1111, 1113, 2101, 2102, 2120, 2121; CHEM 1105, 1107, 1111, 1112; PHYS 1101, 1103, 1104, 1115, 2125*
11	**Elective Option:** *Choose any college level course*	12	**Degree Requirement** *This course is required for this particular degree*

LEARNING OUTCOMES/MARKETABLE SKILLS

Critical Thinking | Teamwork | Communication | Empirical & Quantitative Reasoning | Mathematical Skills | Numeracy | Organization Self-Discipline | Time Management | Leadership | Investigative Skills | Analytical Skills | Management

EDUCATIONAL OPPORTUNITIES

B.A. Business | B.S. Math Education | B.S. Physics | B.S. Mathematics | B.S. CIS | B.S. Statistics

CAREER OPPORTUNITIES (B.S. or Higher)

Design Engineer | Biomedical Engineer | Chemical Engineer | Civil Engineer | Computer Engineer | Mechanical Engineer | Electrical Engineer | Environmental Engineer | Software Engineer | Software Designer | Physics/Math Teacher

HIGH SCHOOL ENDORSEMENTS

STEM | Business & Industry | Multi-Disciplinary

LINKS TO COLLEGES & PROFESSIONAL ORGANIZATIONS:

Texas A&M Texarkana Department of Electrical Engineering: http://tamut.edu/Academics/Colleges-and-Departments/STEM/Electrical-Engineering/index.html

Stephen F. Austin State University Department of Engineering/Physics: http://www.engineering.sfasu.edu/

University of North Texas College of Engineering: https://engineering.unt.edu/

Southern Arkansas University College of Science and Engineering: https://web.saumag.edu/science/engineering-engineering-physics/

University of Arkansas College of Engineering: https://engineering.uark.edu/

National Society of Professional Engineers: https://www.nspe.org/