

# **Bloomburg 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+\_\_\_\_\_

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 <sup>1</sup>	3		12 or *EA						
ENGL 1302	Composition II <sup>1</sup>									
OR	<u>OR</u>	3		12 or *EA						
ENGL 2311	Technical & Business Writing <sup>1</sup>									
EDUC/PSYC 1300	Learning Frameworks <sup>9</sup>	3		*EA						
MATH 1316	Plane Trigonometry <sup>9</sup>	3		*EA						
HIST 1301	United States History I <sup>6</sup>	3		11, 12 or *EA						
HIST 1302	United States History II <sup>6</sup>	3		11, 12 or *EA						
XXXX xxxx	Creative Arts Elective <sup>5</sup>	3		11, 12 or *EA						
XXXX xxxx	Social & Behavioral Science <sup>8</sup>	3		11, 12 or *EA						
SPCH 1315	Public Speaking <sup>9</sup>			,						
OR	<u>OR</u>	3		11, 12 or *EA						
SPCH 1321	Business & Professional Communication <sup>9</sup>			,						
XXXX xxxx	ENGL 2327/2328 American Literature I/II <sup>4</sup> ENGL 2332/2333 World Literature I/II <sup>4</sup> HIST 2321/2322 World Civilizations I/II <sup>4</sup> PHIL 2306 Introduction to Ethics <sup>4</sup>	3		11, 12 or *EA						
GOVT 2305	Federal Government <sup>7</sup>	3		11, 12 or *EA						
GOVT 2306	Texas Government <sup>7</sup>	3		11. 12 or *EA						
CHEM 1311	General Chemistry I Lecture <sup>12</sup>	3		*EA						
CHEM 1111	General Chemistry I Lab <sup>12</sup>	1		*EA						
PHYS 2325	University Physics I Lecture <sup>12</sup>	3		*EA						
PHYS 2125	University Physics I Lab <sup>12</sup>	1		*EA						
	TOTAL CORE HOURS		44		-					
	ADDITIONAL CO	DURSES F		-	ours					
MATH 2413	Calculus I <sup>12</sup>	4		*EA						
MATH 2414	Calculus II <sup>12</sup>	4		*EA						
*MATH xxxx	*MATH 2318 Linear Algebra <sup>12</sup>	1		*EA						
	*MATH 2320 Differential Equations <sup>12</sup>	*3+1/4								
	MATH 2415 Calculus III <sup>12</sup>									
PHYS 2326	University Physics II Lecture <sup>12</sup>	3		*EA						
PHYS 2126	University Physics II Lab <sup>12</sup>	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										

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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		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	<u>Creative Arts Block (050):</u> Complete one of the following: ARTS 1301, 1310; DRAM 1310, 2366; MUSI 1306	6	<b>American History Block (060):</b> Complete each of the following: HIST 1301 <b>and</b> 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 <u>OR</u> 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.	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
	AND		
	<b>9B: Choose one from the following:</b> BCIS 1305; MATH 2413; PSYC/EDUC 1300		
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: <u>https://www.nspe.org/</u>