



## McLeod High School Early Enrollment Pathway Plan

### Associate of Science Degree

Major: Chemistry

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	Course Title	Credit Hours	Grade Level Completed	Grade Level Course is Available	Comments/Planning
<b>CORE COURSES</b>					
ENGL 1301	Composition I <sup>1</sup>	3		12 or *EA	
ENGL 1302 OR ENGL 2311	Composition II <sup>1</sup> OR Technical & Business Writing <sup>1</sup>	3		12 or *EA	
EDUC/PSYC 1300	Learning Frameworks <sup>9</sup>	3		9,10,11,12 or *EA	
HIST 1301	United States History I <sup>6</sup>	3		11 or *EA	
HIST 1302	United States History II <sup>6</sup>	3		11 or *EA	
XXXX xxxx	Creative Arts Elective <sup>5</sup>	3		*EA	
XXXX xxxx	Social & Behavioral Science <sup>8</sup>	3		9,10,11,12 or *EA	Grade level pending course
XXXX xxxx	Any core Speech or see 9A on next page	3		10,11,12 or *EA	Speech recommended
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		*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 <sup>12</sup>	3		*EA	
PHYS 1301 OR PHYS 2325	College Physics I <sup>12</sup> OR University Physics 1 <sup>12</sup>	3		*EA	
MATH 2413	Calculus 1 <sup>12</sup>	4		*EA	
<b>TOTAL CORE HOURS</b>		<b>43</b>			
<b>ADDITIONAL COURSES FOR DEGREE</b>					
CHEM 1111	General Chemistry I Lab <sup>12</sup>	1		*EA	
PHYS 1101 OR PHYS 2125	College Physics I Lab <sup>12</sup> OR University Physics I Lab <sup>12</sup>	1		*EA	
CHEM 1312	General Chemistry II <sup>12</sup>	3		*EA	
CHEM 1112	General Chemistry II Lab <sup>12</sup>	1		*EA	
*PHYS 1302 OR *PHYS 2326	College Physics II <sup>12</sup> OR University Physics II <sup>12</sup>	3		*EA	*PHYS 1102 lab or PHYS 2126 lab recommended for college transfer purposes
CHEM 2323	Organic Chemistry I <sup>12</sup>	3		*EA	
CHEM 2123	Organic Chemistry I Lab <sup>12</sup>	1		*EA	
CHEM 2325	Organic Chemistry II <sup>12</sup>	3		*EA	
CHEM 2125	Organic Chemistry II Lab <sup>12</sup>	1		*EA	
<b>TOTAL NON-CORE HOURS</b>		<b>17</b>			
<b>Total Credit Hours</b>		<b>60</b>			

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.

## Explanation for Superscripts

1	<b>Communication Block (010):</b> Complete each of the following: ENGL 1301 <b>and</b> ENGL 1302 or 2311	2	<b>Mathematics Block (020):</b> Complete one of the following: MATH 1314, 1316, 1324, 1325, 1332, 1350, 1442, 2412, or 2413
3	<b>Life &amp; Physical Sciences Block (030):</b> 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	<b>Language, Philosophy, &amp; Culture Block (040):</b> Complete one of the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341; HIST 2321, 2322; PHIL 2306
5	<b>Creative Arts Block (050):</b> 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	<b>Government/Political Science Block (070):</b> Complete each of the following: GOVT 2305 <b>and</b> 2306	8	<b>Social &amp; Behavioral Sciences Block (080):</b> Complete one of the following: COMM 1307; ECON 2301, 2302; GEOG 1303; PSYC 2301, 2308, 2314; SOCI 1301
9	<b>Component Area Option Block (090): 9A: Choose one from the following:</b> SPCH 1315; SPCH 1318; SPCH 1321 <b>OR</b> 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.  <b>AND</b>  <b>9B: Choose one from the following:</b> BCIS 1305; MATH 2413; PSYC/EDUC 1300	10	<b>Lab Science Course</b> 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	<b>Elective Option:</b> Choose any college level course	12	<b>Degree Requirement</b> This course is required for this particular degree

### LEARNING OUTCOMES/MARKETABLE SKILLS

Critical Thinking | Teamwork | Communication | Empirical & Quantitative Reasoning | Technical Proficiency | Numeracy | Organization Self-Discipline | Time Management | Leadership | Independent Learning Skills

### EDUCATIONAL OPPORTUNITIES

B.S. Chemistry | B.S. Science Education | B.S. Environmental Chemistry | B.S. Medical Technology | B.S. Forensic Science | B.S. Biology | B.S. Biochemistry | B.S. Chemical Engineering

### CAREER OPPORTUNITIES (B.S. or Higher)

Analytical Chemist | Chemical Engineer | Clinical Biochemist | Forensic Scientist | Pharmacologist | Chemistry Teacher

### HIGH SCHOOL ENDORSEMENTS

STEM | Public Health | Business & Industry | Multi-Disciplinary

### LINKS TO COLLEGES & PROFESSIONAL ORGANIZATIONS:

Texas A&M Texarkana Department of Chemistry: <http://www.tamut.edu/Academics/Colleges-and-Departments/STEM/Chemistry/index.html>

Stephen F. Austin State University Department of Chemistry and Biochemistry: <http://www.sfasu.edu/chemistry/>

University of North Texas Department of Chemistry: <https://chemistry.unt.edu/>

Southern Arkansas University Department of Chemistry and Biochemistry: <https://web.saumag.edu/science/biochemistry-chemistry/>

American Chemical Society: <https://www.acs.org/content/acs/en.html>