LIST OF COURSES

Core Creative Arts*
CHEM 1311/1111 - General Chem I/lab
ENGL 1301 - Composition I
ENGL 1302 - Composition II
Language, Philosophy Culture Core **
GOVT 2305 - Federal Government
GOVT 2306 - Texas Government
HIST 1301 - US History I
HIST 1302 - US History II
MATH 2320 - Differential Equations
MATH 2413 - Calculus I
MATH 2414 - Calculus II
MATH 2415 - Calculus III
PHYS 2325/2125 - University Physics I/lab
PHYS 2326/2126 - University Physics II/lab
PSYC 1300 - Learning Frameworks
PSYC 2301 (or other) - General Psychology

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

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:
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/

Start Smart. Finish Strong.
## Texarkana College Core Curriculum

<table>
<thead>
<tr>
<th>Component Area &amp; Number</th>
<th>SCH</th>
<th>Courses to Choose From:</th>
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</table>
| (010) Communication     | 6   | ENGL 1301: Composition I (3)  
|                         |     | ENGL 1302: Composition II (3)  
|                         |     | ENGL 2311: Technical & Business Writing (3)  |
| (020) Mathematics       | 3   | MATH 1314: College Algebra (3)  
|                         |     | MATH 1316: Plane Trigonometry (3)  
|                         |     | MATH 1324: Finite Math (3)  
|                         |     | MATH 1325: Calculus for Business & Social Science (3)  
|                         |     | MATH 1332: Math for Liberal Arts (3)  
|                         |     | MATH 1350: Fundamentals of Math I (3)  
|                         |     | MATH 1442: Elementary Statistical Methods (4)  
|                         |     | MATH 2412: Pre-Calculus (4)  
|                         |     | MATH 2413: Calculus I (4)  |
| (030) Life & Physical Sciences | 6 | BIOL 1322: Nutrition & Diet Therapy (3)  
|                         |     | BIOL 1306: Biology for Science Majors I (3)  
|                         |     | BIOL 1307: Biology for Science Majors II (3)  
|                         |     | BIOL 1308: Biology for Non-Science Majors I (3)  
|                         |     | BIOL 1309: Biology for Non-Science Majors II (3)  
|                         |     | BIOL 1311: General Biology (3)  
|                         |     | BIOL 1313: General Zoology (3)  
|                         |     | BIOL 2301: Anatomy & Physiology I (3)  
|                         |     | BIOL 2302: Anatomy & Physiology II (3)  
|                         |     | BIOL 2306: Environmental Biology (3)  
|                         |     | BIOL 2320: Microbiology for Non-Science Majors (3)  
|                         |     | BIOL 2321: Microbiology for Science Majors (3)  
|                         |     | CHEM 1305: Introductory Chemistry I (3)  
|                         |     | CHEM 1311: General Chemistry I (3)  
|                         |     | CHEM 1312: General Chemistry II (3)  
|                         |     | CHEM 1418: Introductory Organic and Biochemistry (4)  
|                         |     | GEOL 1303: Physical Geology (3)  
|                         |     | PHYS 1301: College Physics I (3)  
|                         |     | PHYS 1303: Stars & Galaxies (3)  
|                         |     | PHYS 1304: Solar System (3)  
|                         |     | PHYS 1515: Physical Science I (3)  
|                         |     | PHYS 2325: University Physics I (3)  |
| (040) Language, Philosophy & Culture | 3 | ENGL 2322 British Literature I (3)  
|                         |     | ENGL 2323 British Literature II (3)  
|                         |     | ENGL 2327: American Literature I (3)  
|                         |     | ENGL 2328: American Literature II (3)  
|                         |     | ENGL 2332: World Literature I (3)  
|                         |     | ENGL 2333: World Literature II (3)  
|                         |     | ENGL 2341: Forms in Literature (3)  
|                         |     | HIST 2321: World Civilizations I (3)  
|                         |     | HIST 2322: World Civilizations II (3)  
|                         |     | MUSI 1306: Music Appreciation (3)  |
| (050) Creative Arts     | 3   | ARTS 1301: Art Appreciation (3)  
|                         |     | DRAM 1310: Introduction to Theater (3)  
|                         |     | DRAM 2366: Development of the Motion Picture I (3)  
|                         |     | MUSI 1306: Music Appreciation (3)  |
| (060) American History  | 6   | HIST 1301: United States History I (3)  
|                         |     | HIST 1302: United States History II (3)  |
| (070) Government/Political Science | 6 | GOVT 2305: Federal Government (3)  
|                         |     | GOVT 2306: Texas Government (3)  |
| (080) Social & Behavioral Sciences | 3 | COMM 1307: Introduction to Mass Communication (3)  
|                         |     | GEOG 1303: World Regional Geography (3)  
|                         |     | PSYC 2301: General Psychology (3)  
|                         |     | PSYC 2308: Child Psychology (3)  
|                         |     | PSYC 2314: Lifespan Growth & Development (3)  
|                         |     | PSYC 2301: Introductory Sociology (3)  
|                         |     | ECON 2301: Principles of Macroeconomics (3)  
|                         |     | ECON 2302: Principles of Microeconomics (3)  |
| (090) Component Area Option | 6 | Choose one Speech Course (3 SCH)  
|                         |     | SPCH 1315: Public Speaking (3)  
|                         |     | SPCH 1318: Interpersonal Communication (3)  
|                         |     | SPCH 1321: Business & Professional Speaking (3)  
|                         | 3   | Choose 3 SCH from the following:  
|                         |     | BCIS 1305: Business Computer Applications (3)  
|                         |     | MATH 2413: Calculus I (4)  
|                         |     | PSYC 1300/EDUC 1300 Learning Frameworks (3)  |
|                         |     | The following are labs that should be taken with lecture courses for those needing 8 SCH of Life & Physical Sciences for a degree:  
|                         |     | BIOL 1106: Biology for Science Majors I (lab) (1)  
|                         |     | BIOL 1107: Biology for Science Majors II (lab) (1)  
|                         |     | BIOL 1108: Biology for Non-Science Majors I (lab) (1)  
|                         |     | BIOL 1109: Biology for Non-Science Majors II (lab) (1)  
|                         |     | BIOL 1111: General Botany (lab) (1)  
|                         |     | BIOL 1113: General Zoology (lab) (1)  
|                         |     | BIOL 2101: Anatomy & Physiology I (lab) (1)  
|                         |     | BIOL 2102: Anatomy & Physiology II (lab) (1)  
|                         |     | BIOL 2120: Microbiology for Non-Science Majors (lab) (1)  
|                         |     | BIOL 2121: Microbiology for Science Majors (lab) (1)  
|                         |     | CHEM 1305: Introductory Chemistry I (lab) (1)  
|                         |     | CHEM 1311: General Chemistry I (lab) (1)  
|                         |     | CHEM 1312: General Chemistry II (lab) (1)  
|                         |     | CHEM 1418: Introductory Organic and Biochemistry (lab) (4)  
|                         |     | GEOL 1303: Physical Geology (lab) (3)  
|                         |     | PHYS 1301: College Physics I (lab) (3)  
|                         |     | PHYS 1303: Stars & Galaxies (lab) (3)  
|                         |     | PHYS 1304: Solar System (lab) (3)  
|                         |     | PHYS 1515: Physical Science I (lab) (3)  
|                         |     | PHYS 2325: University Physics I (lab) (3)  |

Total Minimum Requirements: 42