



TEXARKANA COLLEGE

Chemistry | Associate of Science

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LIST OF COURSES

Creative Arts Core*
CHEM 1311/111 - General Chemistry I/lab
CHEM 1312/1112 - General Chemistry II/lab
CHEM 2323/2123 - Organic Chem I/lab
CHEM 2325/2125 - Organic Chem II/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 2413 - Calculus I
PHYS 1301/1101 - College Physics I/lab (or other)
PHYS 1302/1102 - College Physics II/lab (or other)
PSYC 1300 of Learning
PSYC 2301 - General Psychology (or other)
SPCH 1315 - Public Speaking

YEAR 1	YEAR 2
FALL	FALL
ENGL 1301	**ENGL 2327 or 2328 or 2332 or 2333 OR HIST 2321 or 2322
CHEM 1311/1111	GOVT 2305
HIST 1301	PHYS 1301/1101 or 2325/2125
PSYC 1300	CHEM 2323/2123*
MATH 2413	
SPRING	SPRING
ENGL 1302	GOVT 2306
CHEM 1312/1112	PSYC 2301 or 2308 or 2314 or SOCI 1301
HIST 1302	PHYS 1302/1102 or 2326/2126
SPCH 1315	*ARTS 1301 or DRAM 1310 or 2366 or MUSI 1306
	CHEM 2325/2125*

Consult the catalog of the four-year institution to which you intend to transfer.

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>

Start Smart. Finish Strong.

Texarkana College Core Curriculum

Component Area & Number	SCH	Courses to Choose From:
(010) Communication	6	ENGL 1301: Composition I (3) ENGL 1302: Composition II (3) or 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	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> 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) </div> <div style="width: 35%;"> 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 1307: Introductory Chemistry II (3) GEOL 1303: Physical Geology (3) PHYS 1301: College Physics I (3) PHYS 1303: Stars & Galaxies (3) PHYS 1304: Solar System (3) PHYS 1315: Physical Science I (3) PHYS 2325: University Physics I (3) </div> </div>
(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) PHIL 2306 Introduction to Ethics (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) SOC 1301: Introductory Sociology (3) ECON 2301: Principles of Macroeconomics (3) ECON 2302: Principles of Microeconomics (3)
(090) Component Area Option	6 3 3	<p>Choose 3 SCH from the following: SPCH 1315: Public Speaking (3) SPCH 1318: Interpersonal Communication (3) SPCH 1321: Business & Professional Speaking (3) or any courses in Component Areas (010), (020), (030), (040), (050), & (080) that are not used to fulfill another core requirement except MATH 2413: Calculus, which is listed below.</p> <p>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.</p> <p>AND</p> <p>Choose 3 SCH from the following: BCIS 1305: Business Computer Applications (3) MATH 2413: Calculus I (4) PSYC 1300/EDUC 1300 Learning Frameworks (3)</p> <p>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 1105: Introductory Chemistry I (lab) (1) CHEM 1111: General Chemistry I (lab) (1) CHEM 1112: General Chemistry II (lab) (1) PHYS 1101: College Physics I (lab) (1) PHYS 1103: Stars & Galaxies (lab) (1) PHYS 1104: Solar System (lab) (1) PHYS 1115: Physical Science I (lab) (1) PHYS 2125: University Physics (lab) (1)</p>
Total Minimum Requirements	42	