



# TEXARKANA COLLEGE

## Math | Associate of Science

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### LIST OF COURSES

- Creative Arts Core (CAC)
- BCIS 1305 - Business Computer Applications
- ENGL 1301 - Composition I
- ENGL 1302 - Composition II
- Language, Philosophy, Culture Core (LPC)
- GOVT 2305 - Federal Government
- GOVT 2306 - Texas Government
- HIST 1301 - US History I
- HIST 1302 - US History II
- MATH 1316 - Trigonometry
- MATH 2413 - Calculus I
- MATH 2414 - Calculus II
- MATH 2415 - Calculus III
- PSYC 1300 - Learning Frameworks
- PSYC 2301 (or other)
- Science Core + lab
- SPCH 1315 - Public Speaking
- 1 Hour Elective

YEAR 1	YEAR 2
<b>FALL</b>	<b>FALL</b>
ENGL 1301	LPC- ENGL 2327 or 2328 or 2332 or 2333 OR HIST 2321 or 2322
Core Science + Lab	GOVT 2305
HIST 1301	BCIS 1305
PSYC 1300	MATH 2414
MATH 1316	*Requires Additional 1 Hour Elective
<b>SPRING</b>	<b>SPRING</b>
ENGL 1302	GOVT 2306
Core Science + Lab	PSYC 2301 or 2308 or 2314 or SOCI 1301
HIST 1302	1 Hour Elective
SPCH 1315	CAC- ARTS 1301 or DRAM 1310 or 2366 or MUSI 1306
MATH 2413	MATH 2415 or 2320* or 2318*

*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 | Problem-Solving | Numeracy | Organization  
Self-Discipline | Time Management | Leadership Management

### EDUCATIONAL OPPORTUNITIES

B.A. Business | B.S. Math Education | B.A. Marketing | B.S. Engineering | B.S. Mathematics | B.S. CIS | B.S. Statistics | B.S. Computer Science

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

Financial Analyst | Actuary | Accountant | Data Analyst | Statistician | Math Teacher

### HIGH SCHOOL ENDORSEMENTS

STEM | Business & Industry | Multi-Disciplinary

### LINKS TO COLLEGES & PROFESSIONAL ORGANIZATIONS:

- Texas A&M Texarkana Department of Mathematics: <http://www.tamut.edu/Academics/Colleges-and-Departments/STEM/Mathematics/index.html>
- Stephen F. Austin State University Department of Mathematics: <http://www2.sfasu.edu/math/>
- University of North Texas Department of Mathematics: <http://math.unt.edu/>
- Southern Arkansas University Department of Mathematics and Computer Science: <https://web.saumag.edu/directory/departments/college-of-science-technology/mathematics-computer-science/>
- National Association of Mathematicians: <http://www.nam-math.org/>

*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	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;">                     BIOL 1322: Nutrition &amp; 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 &amp; Physiology I (3)                      BIOL 2302: Anatomy &amp; Physiology II (3)                      BIOL 2306: Environmental Biology (3)                      BIOL 2320: Microbiology for Non-Science Majors (3)                 </td> <td style="vertical-align: top; width: 50%;">                     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 &amp; Galaxies (3)                      PHYS 1304: Solar System (3)                      PHYS 1315: Physical Science I (3)                      PHYS 2325: University Physics I (3)                 </td> </tr> </table>	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 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)
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(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) SOC1 1301: Introductory Sociology (3) ECON 2301: Principles of Macroeconomics (3) ECON 2302: Principles of Microeconomics (3)		
(090) Component Area Option	6 3  3	<p><b>The following are labs that should be taken with lecture courses for those needing 8 SCH of Life &amp; Physical Sciences for a degree.</b></p> <p>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 &amp; Physiology I (lab) (1)                      BIOL 2102: Anatomy &amp; 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 1113: General Chemistry I (lab) (1)                      CHEM 1112: General Chemistry II (lab) (1)                      PHYS 1101: College Physics I (lab) (1)                      PHYS 1103: Stars &amp; Galaxies (lab) (1)                      PHYS 1104: Solar System (lab) (1)                      PHYS 1115: Physical Science I (lab) (1)                      PHYS 2125: University Physics (lab) (1)</p> <p><b>Choose 3 SCH from the following:</b>                      SPCH 1315: Public Speaking (3)                      SPCH 1318: Interpersonal Communication (3)                      SPCH 1321: Business &amp; Professional Speaking (3) or any courses in Component Areas (010), (020), (030), (040), (050), &amp; (080) that are not used to fulfill another core requirement except MATH 2413: Calculus, which is listed below.</p> <p><b>OR</b> any courses in Component Areas (010), (020), (030), (040), (050), &amp; (080) that are not used to fulfill another core requirement except MATH 2413, which is listed below.</p> <p><b>And Choose 3 SCH from the following:</b>                      BCIS 1305: Business Computer Applications (3)                      MATH 2413: Calculus I (4)                      PSYC 1300/EDUC 1300 Learning Frameworks (3)</p>		
<b>Total Minimum Requirements</b>	<b>42</b>			