

# Math | Associate of Science

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#### **LIST OF COURSES**

Creative Arts Core \*

BCIS 1305 - Business Computer Applications

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 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 hr elective

YEAR 1	YEAR 2	
FALL	FALL	
ENGL 1301	**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		
SPRING	SPRING	
ENGL 1302	GOVT 2306	
Core Science + Lab	PSYC 2301 or 2308 or 2314 or SOCI 1301	
HIST 1302	1 Hour Elective	
SPCH 1315	*ARTS 1301 or DRAM 1310 or 2366 or MUSI 1306	
MATH 2413	MATH 2415	

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

#### **EDUCATIONAL OPPORTUNITIES**

B.A. Business | B.S. Math Education | B.A. Marking | 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.

Last Modified April 21, 2021 2021-2022

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 1330: Fundamentals of Math I (3) MATH 1442: Elementary Statistical Methods (4) MATH 2412: Pre-Calculus I (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 II (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)	
(040) Language, Philosophy & Culture	3	ENGL 2322 British Literature I (3) ENGL 2323 British Literature II (3) ENGL 2327: American Literature II (3) ENGL 2328: American Literature II (3) ENGL 2332: World Literature II (3) ENGL 2333: World Literature II (3) ENGL 2333: World Literature II (3) ENGL 2341: Forms in Literature (3) HIST 2321: World Civilizations II (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) SOCI 1301: Introductory Sociology (3) ECON 2301: Principles of Macroeconomics (3) ECON 2302: Principles of Microeconomics (3)		
(090) Component Area Option	6 3 3	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.  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.  AND 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 II (lab) (1) BIOL 1109: Biology for Non-Science Majors II (lab) (1) BIOL 1111: General Botany (lab) (1) BIOL 2111: General Botany (lab) (1) BIOL 2101: Anatomy & Physiology II (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) BIOL 2121: Microbiology for Science Majors (lab) (1) CHEM 1105: Introductory Chemistry II (lab) (1) CHEM 1111: General Chemistry II (lab) (1) CHEM 1112: General Chemistry II (lab) (1) PHYS 1101: College Physics II (lab) (1) PHYS 1104: Solar System (lab) (1) PHYS 1115: Physical Science II (lab) (1) PHYS 2125: University Physics (lab) (1)	
Total Minimum Requirements	42			

**TEXARKANA COLLEGE** 2500 N. Robison Rd. | Texarkana, TX 75599 texarkanacollege.edu | 903.823.3456

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