# ATU ARKANSAS TECH UNIVERSITY

NAME:_____  T#:_____  DATE:_____

## 2025-2026 Degree Map-Bachelor of Science in Mathematics

This map is a term-by-term sample course schedule. The milestones listed to the right of each term are designed to keep you on course to graduate in four years. The Sample Schedule serves as a general guideline to help you build a full schedule each term. See course descriptions and prerequisites at https://catalog.atu.edu/

#Prerequisite Courses: ENGL 0303____ MATH 0803___ MATH 1003____ MATH 0903____ MATH 1113___
MATH 1110____ MATH 1203 ____ MATH 1914_____

Possible Careers: Research, Banking and Finance, State & Federal Government Agencies, Computer Programming, Education, Insurance

**Sample Schedule** / **Milestones/Notes**

| Semester 1 | Hrs. | Grade | Semester 1 |
|---|---|---|---|
| ENGL 1013- Comp I (ACTS=ENGL 1013) | 3 | # | |
| U.S. History & Government | 3 | | |
| MATH 1001- Orientation to Mathematics | 1 | | Fall Only |
| MATH 2914- Calculus I (ACTS= MATH 2405) | 4 | # | C or > required for Gen Ed |
| COMS 1011/1013- Programming Foundations I & lab | 4 | | Meet with Career Services |
| Total hours | 15 | GPA | |

| Semester 2 | Hrs. | | Semester 2 |
|---|---|---|---|
| ENGL 1023- Comp II (ACTS= ENGL 1023) | 3 | # | |
| Social Science | 3 | | |
| MATH 2703- Discrete Mathematics | 3 | | Pre-req: C in MATH 1113 or higher |
| MATH 2924- Calculus II (ACTS= MATH2505) | 4 | | |
| COMS 2203- Programming Foundations II | 3 | | |
| Total hours | 16 | GPA | |

| Semester 3 | Hrs. | | Semester 3 |
|---|---|---|---|
| Fine Arts & Humanities | 3 | | Attend Career fairs on campus |
| PHYS 2114/2000- Calculus-Based Physics I and lab | 4 | | |
| MATH 2934- Calculus III (ACTS= MATH 2603) | 4 | | |
| STAT 3153- Applied Statistics | 3 | | Fall Only |
| | | | |
| Total hours | 14 | GPA | |

| Semester 4 | Hrs. | | Semester 4 |
|---|---|---|---|
| Social Science | 3 | | |
| MATH 4003- Linear Algebra I | 3 | | |
| PHYS 2124/2010- Calculus-Based Physics II and lab | 4 | | |
| MATH 3243- Differential Equations I | 3 | | |
| General Elective | 2 | | Consider Advanced Certificate in Secondary Education to obtain Teacher Licensure |
| Total hours | 15 | GPA | **MATH ADVISOR ASSIGNED** |

The Arkansas Course Transfer System (ACTS) is designed to assist in planning the academic progress of students. This system contains information about the transferability of courses within Arkansas public colleges and universities. The Arkansas Course Transfer System can be accessed by searching keyword "ACTS" at https://adhe.edu/

**Sample Schedule** / **Milestones/Notes**

| Semester 5 | Hrs. | Grade | Semester 5 |
|---|---|---|---|
| Fine Arts & Humanities | 3 | | Draft a résumé and upload it to Handshake and create a LinkedIn profile |
| COMS 2213-Data Structures or COMS 2323-Prog in Python | 3 | | |
| MATH 4033-Abstract Algebra I or MATH 4273-Complex Variables | 3 | | |
| General Elective | 3 | | |
| General Elective | 3 | | |
| Total hours | 15 | GPA | |

| Semester 6 | Hrs. | | Semester 6 |
|---|---|---|---|
| Social Sci./Fine Arts/Humanities/Comm | 3 | | |
| MATH 3203-Intro to Analysis or MATH 4123-Mathematical Modeling | 3 | | Spring Only |
| COMS 2213-Data Structures or COMS 2323-Prog in Python | 3 | | Spring Only |
| STAT 3113- Regression Analysis | 3 | | |
| General Elective (3000-4000 level) | 3 | | |
| Total hours | 15 | GPA | **APPLY FOR GRADUATION** |

| Semester 7 | Hrs. | | Semester 7 |
|---|---|---|---|
| MATH 4033-Abstract Algebra I or MATH 4273-Complex Variables | 3 | | Fall Only |
| MATH or STAT Elective (3000-4000 level) | 3 | | Math Elective Exclude: 3033, 4703 |
| General Elective | 3 | | |
| General Elective | 3 | | |
| General Elective | 3 | | |
| Total hours | 15 | GPA | |

| Semester 8 | Hrs. | | Semester 8 |
|---|---|---|---|
| MATH 4971- Mathematics Senior Seminar | 1 | | |
| MATH 3203-Intro to Analysis or MATH 4123-Mathematical Modeling | 3 | | **Graduation Requirements:** |
| MATH or STAT Elective (3000-4000 level) | 3 | | Min. hours 3000-4000 level courses: 40 |
| General Elective (3000-4000 level) | 3 | | No more than 4 PE activity hours |
| General Elective (3000-4000 level) | 3 | | Min. hours required: 120 |
| General Elective | 2 | | 2.00+ GPA |
| Total Hours | 15 | GPA | No more than 12 hours of "D" grades |

General Electives: 29 hours (1000-4000 level); 12 hours (3000-4000 level)

\# indicates a "C" or better is required

**Fine Arts and Humanities**
ART 2123 Experiencing Art (ACTS=ARTA1003)
MUS 2003 Survey of Music History (ACTS=MUSC1003)
TH 2273 Introduction to Theatre (ACTS=DRAM 1003)
ENGL/JOUR 2173 Introduction to Film
ENGL 2003 Introduction to World Literature (ACTS=ENGL2113)
ENGL 2013 Intro. to American Literature (ACTS=ENGL2653)
PHIL 2003 Introduction to Philosophy (ACTS=PHIL1103)
PHIL 2053 Introduction to Critical Thinking (ACTS=PHIL 1003)
1013 from SPAN, FR, GER, JPN, CHIN, or LAT
1023 from SPAN, FR, GER, JPN, CHIN, or LAT
LEAD 2003 Ethics in Leadership

**U.S. History & Government**
HIST 1903 Survey of American History
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
POLS 2003 American Government (ACTS=PLSC2003)

**University Honors students should consult Course Catalog for appropriate Fine Arts/Humanities, US History/Government and Social Science options for University Honors Curriculum.**

**Social Sciences**
HIST 1503 World History to 1500 (ACTS=HIST1113)
HIST 1513 World History since 1500 (ACTS=HIST1123)
HIST 2003 U.S. History to 1877 (ACTS=HIST2113)
HIST 2013 U.S. History since 1877 (ACTS=HIST2123)
HIST 1903 Survey of American History
POLS 2003 American Government (ACTS=PLSC2003)
ECON 2003 Principles of Macroeconomics (ACTS=ECON2103)
ECON 2013 Principles of Microeconomics (ACTS=ECON2203)
SOC 1003 Introductory Sociology (ACTS=SOCI1013)
PSY 2003 General Psychology (ACTS=PSYC1103)
ANTH 1213 Intro. to Anthropology (ACTS=ANTH1013)
ANTH 2003 Cultural Anthropology (ACTS=ANTH2013)
GEOG 2013 Regional Geography of the World (ACTS=GEOG2103)
AMST 2003 American Studies
FIN 2013 Personal Finance
LEAD 1003 Introduction to Leadership
**Communication Courses**
COMM 1003 Intro to Speech Comm
COMM 2003 Public Speaking
COMM 2173 Business and Professional Speaking