

2024-2025 Degree Map- Associate of Science in Nuclear Technology

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 ___

Possible Careers: Nuclear Technician, Radiation Protection, Nuclear Power Plant Operator, Nuclear Waste Management Technician. Employable in areas including nuclear power plants, healthcare facilities, and industrial environments

Sample Schedule

| Semester 1 | Hrs. | Grade | Milestones/Notes |
|---|-----------|------------|------------------|
| ENGL 1013-Comp I (ACTS=ENGL 1013) | 3 | # | |
| Social Sciences | 3 | | |
| MATH 2914- Calculus I (ACTS= MATH 2405) | 4 | # | Milestone |
| CHEM 2124/2120- General Chemistry I (ACTS= CHEM 1414) | 4 | | Milestone |
| MCEG 1011 or ELEG 1011- Introduction to Engineering | 1 | | |
| TECH 1001: Orientation to the University | 1 | | |
| Total hours | 16 | GPA | |

| Semester 2 | Hrs. | Grade | Milestones/Notes |
|--|-----------|------------|--------------------------------|
| ENGL 1023- Comp II (ACTS= ENGL 1023) | 3 | # | |
| PHYS 2114/2000- Calculus-Based Physics I (ACTS= PHYS 2034) | 4 | | |
| MATH 2924- Calculus II (ACTS= MATH 2505) | 4 | | #C or > required for MATH 2934 |
| MCEG 2023- Engineering Materials | 3 | | |
| | | | |
| Total hours | 14 | GPA | APPLY FOR GRADUATION |

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/>

| Fine Arts and Humanities | U.S. History & Government |
|--|---|
| ART 2123 Experiencing Art (ACTS=ARTA1003) | HIST 1903 Survey of American History |
| MUS 2003 Introduction to Music (ACTS=MUSC1003) | HIST 2003 U.S. History to 1877 (ACTS=HIST2113) |
| TH 2273 Introduction to Theatre (ACTS=DRAM 1003) | HIST 2013 U.S. History since 1877 (ACTS=HIST2123) |
| ENGL/JOUR 2173 Introduction to Film | POLS 2003 American Government (ACTS=PLSC2003) |
| 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 | |

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

Sample Schedule

| Semester 3 | Hrs. | Grade | Milestones/Notes |
|--|-----------|------------|---------------------------------------|
| Social Sciences/Fine Arts&Humanities/Communication | 3 | | Only Fine Arts/Hum will apply to MCEG |
| Fine Arts & Humanities | 3 | | |
| U.S. History/Government | 3 | | |
| MCEG 2013- Statics | 3 | | |
| MCEG 3503- Basic Nuclear Engineering | 3 | | |
| | | | |
| Total hours | 15 | GPA | |

| Semester 4 | Hrs. | Grade | Milestones/Notes |
|-------------------------------------|-----------|------------|---|
| Social Sciences | 3 | | |
| Fine Arts & Humanities | 3 | | |
| MCEG 3313- Thermodynamics I | 3 | | |
| MCEG 3512- Radiation Detection Lab | 2 | | Graduation Requirements: Min. hours required- 60 No more than 4 PE activity hours 2.00+ GPA |
| MCEG 3523- Radiation Health Physics | 3 | | |
| *General Elective | 1 | | |
| Total hours | 15 | GPA | |

General Electives: 1 hour (1000-4000 level)

*Choose 3000-4000 level MCEG or ELEG course if considering bachelor's degree in Engineering

Shaded classes will directly apply toward Bachelor of Science in Mechanical Engineering

| 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 |