

NUCLEAR TECHNOLOGY, ASSOCIATE OF SCIENCE

Mechanical Engineering also offers a two-year program leading to the Associate of Science in Nuclear Technology (ASNT) degree. This degree is designed to allow students to obtain the knowledge base and training necessary to work in one of the many areas in the nuclear field. While many technology degrees, especially at the associate's level, are seen as less rigorous paths, the ASNT program at Arkansas Tech University includes most of the same courses as the first two years of the engineering programs.

Graduates of the program leading to the Associate of Science Degree in Nuclear Technology may find employment in many areas of the nuclear industry. Many past ASNT graduates have continued their studies to obtain bachelor's degrees in engineering or the physical sciences either at Arkansas Tech University or at other institutions.

For a detailed policy regarding transfer credit for the Mechanical Engineering programs, please see the Department of Mechanical Engineering (<https://catalog.atu.edu/undergraduate/programs/stem/engineering-computing-sciences/mechanical-engineering/>) page.

It is highly recommended that all freshmen engineering students starting fall 2017 purchase laptop computers. Laptop computer specifications are at: <https://www.atu.edu/engineering/specifications.php>.

Curriculum

The matrix below is a sample plan for all coursework required for this program.

Course	Title	Hours
Freshman		
Fall		
ENGL 1013	Composition I	3
SS 1XXX	Social Science Courses ¹	3
MATH 2914	Calculus I ¹	4
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4
MCEG 1011 or ELEG 1011	Introduction to Mechanical Engineering or Introduction to Electrical Engineering	1
TECH 1001	Orientation to the University	1
Hours		16
Spring		
ENGL 1023	Composition II ¹	3
PHYS 2114 & PHYS 2000	Calculus-Based Physics I and Physics Laboratory I	4
MATH 2924	Calculus II	4
MCEG 2023	Engineering Materials	3
Hours		14
Sophomore		
Fall		
SFHS 1XXX	Social Sciences/Fine Arts/Humanities/Communication Courses ¹	3
FAH 1XXX	Fine Arts and Humanities Courses ¹	3
USHG 1XXX	U.S. History and Government ¹	3
MCEG 2013	Statics	3
MCEG 3503	Basic Nuclear Engineering	3
Hours		15
Spring		
SS 1XXX	Social Science Courses ¹	3

FAH 1XXX	Fine Arts and Humanities Courses ¹	3
MCEG 3313	Thermodynamics I	3
MCEG 3512	Radiation Detection Laboratory	2
MCEG 3523	Radiation Health Physics	3
Elective		1
Hours		15
Total Hours		60

¹ See appropriate alternatives or substitutions in "General Education Requirements (<https://catalog.atu.edu/undergraduate/general-education-requirements/>)".