

MANUFACTURING, ASSOCIATE OF SCIENCE

STAT 3183	Statistical Process Control	3
Hours		17
Total Hours		64

Mechanical Engineering also offers a two-year program leading to the Associate of Science in Manufacturing. This program is aimed at providing graduates with an understanding of the processes, problems, and overall environment of the manufacturing industry. The program consists primarily of courses common to the first two years of the institution's Bachelor of Science in Mechanical Engineering program including targeted elective classes aimed at providing instruction in manufacturing processes, methods, and statistical analysis.

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 ¹	3
SS 1XXX	Social Science Courses ¹	3
MATH 2914	Calculus I	4
CHEM 2124 & CHEM 2120	General Chemistry I and General Chemistry I Lab	4
MCEG 1011	Introduction to Mechanical 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 1002	Engineering Graphics	2
MCEG 2023	Engineering Materials	3
Hours		16
Sophomore		
Fall		
MCEG 2013	Statics	3
STAT 3153	Applied Statistics	3
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
Hours		15
Spring		
SS 1XXX	Social Science Courses ¹	3
FAH 1XXX	Fine Arts and Humanities Courses ¹	3
MCEG 3013	Mechanics of Materials	3
MCEG 3023	Manufacturing Processes	3
MCEG 3612	Manufacturing Laboratory	2

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