

Automation Engineering Technology, B.S.

Automation Engineering Technology, B.S.

This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

| Course | Title | Hour |
|---|---|-----------|
| Freshman | | |
| Fall | | |
| UNIFI/General Education or University Electives | | 6 |
| ENGR 1000 | Introduction to Engineering & Professional Practice | 3 |
| PHYSICS 1511 | General Physics I | 4 |
| TECH 1024 | Engineering Design with CAD | 3 |
| Hours | | 16 |
| Spring | | |
| UNIFI/General Education or University Electives | | 6 |
| PHIL 1560 | Science, Technology, and Ethics (STE) | 3 |
| MATH 1150 | Calculus for Technology | 4 |
| TECH 1010 | Fundamentals of Metal Removal | 3 |
| Hours | | 16 |
| Sophomore | | |
| Fall | | |
| UNIFI/General Education or University Electives | | 3 |
| CS 1160 | C/C++ Programming | 3 |
| TECH 1037 | Introduction to Circuits | 3 |
| TECH 2065 | Industrial Robotics | 3 |
| ENGR 2080 | Statics | 2 |
| Hours | | 14 |
| Spring | | |
| UNIFI/General Education or University Electives | | 6 |
| STAT 1772 | Introduction to Statistical Methods | 3 |
| TECH 1039 | Circuits and Systems | 3 |
| ENGR 2180 | Strength of Materials | 2 |
| Hours | | 14 |
| Junior | | |
| Fall | | |
| UNIFI/General Education or University Electives | | 6 |
| TECH 2053 | Digital Electronics | 4 |
| TECH 3148 | Machine Design | 3 |
| ENGLISH 3772/5772 | Technical Writing for Engineering Technologists | 3 |
| Hours | | 16 |
| Spring | | |
| TECH 2055 | Electrical Power Systems & Machinery | 4 |
| TECH 3147 | Computer Aided Manufacturing | 3 |

| | | |
|---|--|------------|
| TECH 3160/5160 | Computer-Aided Instrumentation and Interfacing | 3 |
| TECH 3164 | Programmable Logic Controllers (PLCs) | 3 |
| Technical elective course | | 3 |
| Hours | | 16 |
| Senior | | |
| Fall | | |
| UNIFI/General Education or University Electives | | 6 |
| TECH 4162 | Hydraulics & Pneumatics | 3 |
| Technical elective course | | 6 |
| Hours | | 15 |
| Spring | | |
| UNIFI/General Education or University Electives | | 10 |
| ENGR 4500 | Senior Design | 3 |
| Hours | | 13 |
| Total Hours | | 120 |