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## Mechanical Engineering Technology

A course of study that prepares students to use basic engineering principles and technical skills to design, develop, test, and troubleshoot projects involving mechanical systems. Includes instruction in principles of mechanics, applications to specific engineering systems, design testing procedures, prototype and operational testing and inspection procedures, manufacturing system-testing procedures, test equipment operation and maintenance, computer applications, critical thinking, planning and problem solving, and oral and written communications. Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

### For More Information:

Contact Kevin Kiser by email at [kevinskiser@abtech.edu](mailto:kevinskiser@abtech.edu)

### Total Cost Estimate

**Tuition per Semester (NC Resident)** \$1,216.00 (16+ credit hours)  
\$76.00/credit hour (1-15 hours)

**Computer Use and Technology Fee** \$48/semester

**Activity Fee** Fall and Spring semesters only,  
Main campus and Online, \$35.00

**CAPS Fee (Campus Access, Parking and Security)** \$20/semester

**Matriculation Fee** \$10/semester

**Student Insurance** \$2/Semester

**Additional Fees including books may incur, please check A-B Tech website for more detail:** <https://abtech.edu/program/mechanical-engineering-technology-aas-associate-applied-science-cost-estimate>

**Have you applied for Financial aid? Please visit A-B Tech website for instructions:** <https://abtech.edu/future-students/financial-aid/applying-aid>

*Courses requiring a grade of "C" or better: ATR, DFT, EGR, ELC, HYD, ISC, MAC, MAT, MEC, PHY, TDP*

|                          | Course Prefix | Course Name                     | Credit Hours |
|--------------------------|---------------|---------------------------------|--------------|
| First Semester (Fall)    | EGR 110       | Intro to Engineering Technology | 2            |
|                          | ELC 111       | Intro to Electricity            | 3            |
|                          | ENG 111       | Writing and Inquiry             | 3            |
|                          | MAC 131       | Blueprint Reading/Mach I        | 2            |
|                          | MAT 171       | Precalculus Algebra             | 4            |
| Second Semester (Spring) | DFT 151       | CAD I                           | 3            |
|                          | HYD 110       | Hydraulics/Pneumatics I         | 3            |
|                          | ISC 121       | Envir Health & Safety           | 3            |
|                          | MEC 110       | Introduction to CAD/CAM         | 2            |
|                          | MEC 145       | Mfg. Materials I                | 3            |
| Third Semester (Summer)  | COM 231       | Public Speaking                 | 3            |
|                          | HUM 115       | Critical Thinking               | 3            |
|                          | ELC 117       | Motor and Controls              | 4            |
| Fourth Semester (Fall)   | ATR 112       | Intro to Automation             | 3            |
|                          | DFT 154       | Intro to Solid Modeling         | 3            |
|                          | EGR 250       | Statics/Strength of Mater       | 5            |
|                          | ELN 260       | Prog Logic Controllers          | 4            |
| Fifth Semester (Spring)  | ATR 212       | Industrial Robots               | 3            |
|                          | DFT 254       | Intermed Solid Model/Render     | 3            |
|                          | EGR 285       | Design Project                  | 2            |
|                          | PHY 151       | College Physics I               | 4            |
|                          | PSY 150       | General Psychology              | 3            |
|                          | TDP 110       | Introduction to 3D Printing     | 3            |
| <b>Program Totals:</b>   |               |                                 | <b>71</b>    |

### Certificate Available:

**Mechanical Engineering Technology: Automation & Robotics Certificate**

For more information, please visit:

<https://abtech.edu/programs/academic/mechanical-engineering-technology>