



2026 - 2027
Associate in Science:
Pre-Engineering Pathway
Arts and Sciences / University Transfer

MULTIPLE LOCATIONS | VARIED SEMESTER LENGTHS | NUMEROUS PROGRAMS | FINANCIAL AID



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Associate in Science: Pre-Engineering Pathway

All Pathways are design to transfer to a four-year institution for eventual completion of a BA/BS or BFA degree.

The Pre-Engineering pathway is intended to lead to a student earning a bachelor's of science in engineering degree at a four-year university. Completers of this degree will be prepared to enter a bachelor's program at a four-year college or university in majors in a variety of engineering disciplines, including but not limited to: mechanical engineering, electrical engineering, computer engineering, chemical engineering, civil engineering, biomedical engineering, aerospace engineering, and environmental engineering. With this degree, graduates can work as professional engineers whose primary focus is design of systems.

For More Information:

Contact Valerie Martin by email at valerielmartin@abtech.edu or call 828.398.7385

Total Cost Estimate

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|---|--|
| 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, \$45.00 |
| CAPS Fee (Campus Access, Parking and Security) | \$30/semester |
| Matriculation Fee | \$25/semester |
| Student Insurance | \$2/Semester |
| Consumable Supply Fees | \$20 Some ART, BIO, CHM, HEA, PED, and PHY courses |
| Books | cost may vary |

| | Course Prefix | Course Name | Credit Hours |
|--------------|---------------|---------------------------------------|--------------|
| 1st Semester | ACA 122 | College Transfer Success | 1 |
| | CHM 151 | General Chemistry I | 4 |
| | EGR 150 | Introduction to Engineering | 2 |
| | ENG 111 | Writing and Inquiry | 3 |
| | MAT 171 | Precalculus Algebra (or MAT 271) | 4 |
| 2nd Semester | COM 231 | Public Speaking | 3 |
| | DFT 170 | Engineering Graphics | 3 |
| | ENG 112 | Writing/Research in the Disc | 3 |
| | MAT 172 | Precalculus Trigonometry (or MAT 272) | 4 |
| | PHY 151 | College Physics I (or PHY 251) | 4 |
| 3rd Semester | CSC 134 | C++ Programming | 3 |
| | MAT 271 | Calculus I (or MAT 273) | 4 |
| | PHI 240 | Introduction to Ethics | 3 |
| | PHY 152 | College Physics II (or PHY 252) | 4 |
| 4th Semester | ECO 251 | Prin of Microeconomics | 3 |
| | HIS 112 | World Civilizations II | 3 |
| | HUM 110 | Technology and Society | 3 |
| | HUM 220 | Human Values and Meaning | 3 |
| | MAT 272 | Calculus II (or MAT 285) | 4 |

AA and AS degrees require completion of a minimum of 60 semester hours of credit, but pathways may include extra hours to meet university baccalaureate degree plans. Completion of hours beyond 60 may not be required to meet AA or AS graduation requirements but is recommended based on programs offered by intended transfer institutions.