

Aviation Maintenance Technology

Advanced Technical Certificate

Career and Technical Program

This program prepares students for entry-level employment in aerospace technology airframe maintenance mechanical fields. The curriculum fulfills the FAA requirements for lecture and lab hours needed prior to taking the FAA licensing exam. Students will receive the knowledge and skills necessary to work in various phases of aviation general and airframe industries. Students will receive hands on instruction from certified FAA Airframe and Power licensed instructors in a lab setting approved by the FAA as a CFR part147 school.

Visit www.nic.edu/gainfulemployment for important information about the educational debt, earnings, and completion rates of students who attended this program.

Program Requirements

First Semester

| Course No. | Title | Credit Hrs |
|-------------|--|------------|
| AERM-103 | Weight and Balance | 2 |
| AERM-104 | Shop Practices | 3 |
| AERM-106 | Federal Aviation Regulations | 2 |
| AERO-101 | Aviation Science | 3 |
| MCTE-103 | Technical Mathematics for Aerospace Technology (or higher) | 3 |
| or MCTE-101 | Technical Mathematics | (3) |
| or MCTE-105 | Technical Mathematics for Machining and Computer Aided Design Technologies | (3) |
| or MCTE-106 | Technical Mathematics for Industrial Mechanic/Millwright; Heating, Ventilation, Aid Conditioning, and Refrigeration; Welding | (3) |
| or _____ | A.A.S. Mathematical Ways of Knowing ¹ | (3-5) |

Semester Total 13-15

Second Semester

| | | |
|-------------|----------------------------|-----|
| AERM-102 | Basic Electricity | 3 |
| AERM-105 | Ground Operations | 3 |
| AERM-201 | Wood, Fabric, and Finishes | 2 |
| AERM-203 | Aircraft Composites | 2 |
| AERM-204 | Aircraft Welding | 2 |
| ECTE-100 | Fundamentals for Writing | 3 |
| or ENGL-101 | English Composition | (3) |

Semester Total 15

Third Semester

| | | |
|----------|----------------------|---|
| AERM-202 | Aircraft Sheet Metal | 5 |
| AERM-205 | Assembly and Rigging | 2 |
| AERM-211 | Landing Gear Systems | 3 |
| AERM-215 | Airframe Electrical | 3 |

Semester Total 13

Fourth Semester

| | | |
|----------|---|---|
| AERM-206 | Airframe Inspection | 2 |
| AERM-212 | Hydraulics, Pneumatics and Fuel Systems | 3 |
| AERM-213 | Airframe Auxiliary Systems | 3 |
| AERM-214 | Instruments, Navigation and Communication Systems | 2 |
| ATEC-117 | Occupational Relations and Job Search | 3 |

Semester Total 13

Program Total 54-56