Aviation Maintenance (AMNT)

AMNT courses designated as Part 65 are available at the Worldwide Campus only.

Courses

**AMNT 240 General Aeronautics and Applications 3 Credits (3.0)**
This course is an introduction to general aeronautics. It includes the study of physical mathematics, weight and balance, government regulations regarding aircraft maintenance, common and special tools and measuring devices, fluid lines, hardware, aircraft servicing, and documentation.

**AMNT 260 Aircraft Electrical Systems Theory 3 Credits (3.0)**
This course is an introduction to aircraft electrical systems. The study of the principles and concepts of basic DC and AC electrical theory, magnetism, batteries, generators, motors, voltage regulators, circuit protection, and electrical component installations are included in this course.

**AMNT 270 Airframe Structures and Applications 3 Credits (3.0)**
This course is an introduction to airframe structures, appropriate applications and repairs. The study of aircraft wood, dope, fabric, sheet metal, welding theory and methods of fabrication are included in this course.

**AMNT 271 Airframe Systems and Applications 3 Credits (3.0)**
This course is an introduction to airframe systems and applications. The study of airframe systems such as aircraft electrical system, fuel systems, cabin atmosphere control systems, instrument systems, communication and navigation systems, ice and rain control systems, fire protection systems, and aircraft inspection are included in this course.

**AMNT 280 Reciprocating Engine Theory and Applications 3 Credits (3.0)**
This course is an introduction into the characteristics of the reciprocating engine. Topics of study include theory, construction, propeller systems, fuel metering, lubrication, exhaust, engine installation and overhaul, and operational maintenance procedures.

**AMNT 281 Turbine Engine Theory and Applications 3 Credits (3.0)**
This course is an introduction into aircraft propulsion systems and applications. Theory, principles of operation, and controls and systems for propellers and turbine engines are analyzed in this course.

**AMNT 490 Aviation Maintenance Capstone Course 3 Credits (3.0)**
The Aviation Maintenance Capstone Course is the culminating effort of the student's entire learning experience. The student will complete a project associated with a problem in the aviation maintenance industry that provides significant evidence of experience in aviation maintenance studies. Students will work with designated faculty members to formulate, develop, and complete the aviation maintenance project. The completion of the Capstone Course is designed to document evidence that Program Outcomes are understood, and provides the student evidence of knowledge to show to current and prospective employers. The Capstone Course will be taken at the end of the student's degree program as the final course of the degree program.

**Prerequisites:** RSCH 202.