Unmanned Aerial Vehicle Technology (UAVT)

Community and Technical College (https://www.ctc.uaf.edu/)
Aviation Program
907-455-2800

UAVT F100    Aerospace Composite Fabrication and Repair
3 Credits
Offered As Demand Warrants
Covers the skills needed for the repair and fabrication of primary and secondary composite structures used in the aerospace industry in fixed-wing, rotor-wing, traditional and unmanned aircraft. Computer Aided Design (CAD) and rapid prototyping (3D printing) is explored for the fabrication of small parts and molds.
Special Notes: Special fees apply.
Lecture + Lab + Other: 2 + 2 + 0
Grading System: Letter Grades with option of Plus/Minus

UAVT F107    Basic Drone Pilot
3 Credits
Offered As Demand Warrants
This course covers information for the safe and legal operation of small uncrewed aircraft under 14 CFR 107 and prepares students to take the FAA Remote Pilot Certificate test. The FAA 107 Certificate allows for private (non-commercial) drone operations to include flight operational checks after maintenance.
Lecture + Lab + Other: 3 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

UAVT F150    Unmanned Aircraft Maintenance and Operation - Theory
3 Credits
Offered As Demand Warrants
A review of unmanned aircraft operational requirements, regulations and processes and how to apply them in preparation for operating actual aircraft. Includes basic inspections, maintenance and troubleshooting theory.
Prerequisites: Successful completion of UAVT F107 or FAA Remote Pilot Certificate.
Co-requisites: UAVT F155.
Lecture + Lab + Other: 3 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

UAVT F155    Unmanned Aircraft Maintenance and Operation - Lab
1 Credit
Offered Spring
Students will perform real-world flight planning, perform preflight inspections, post-crash inspections and basic repairs and troubleshooting and operate small unmanned aircraft.
Prerequisites: UAVT F107 or FAA Remote Pilot Certificate.
Co-requisites: UAVT F150.
Lecture + Lab + Other: 0 + 2 + 0
Grading System: Pass/Fail Grades