

**DEGREE MAP**

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites, and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

**Program Name:** Avionics Technology-Associate of Applied Science Degree

**Location(s) Offered:**

Douglas Campus (Requires one summer session.)

**Learning Outcomes:** *Students who successfully complete this program will be able to do the following:*

1. Demonstrate the knowledge and skills required to obtain the Federal Communications Commission (FCC) General Radiotelephone Operator License.
2. Demonstrate proper use of standard avionics electronic test equipment for the installation, repair, and calibration of avionics systems.
3. Test and troubleshoot instruments, components, and assemblies using circuit testers, oscilloscopes, or voltmeters.
4. Adjust, repair, or replace malfunctioning components or assemblies using hand tools or soldering irons.
5. Apply recommended safety procedures when working on aircraft.
6. Utilize appropriate documentation while performing avionics tasks.
7. Comply with Federal Aviation Administration (FAA) rules and regulations governing avionics technicians.
8. Use logical thinking in performing day-to-day activities, and coordinate and communicate with team members.

**Course or program prerequisite(s) not included in the degree:**

AVT 104 Introduction to Electronics requires one year of high school algebra.  
ENG 101 Composition requires appropriate English placement score (or see advisor).  
MAT 132 Applied Mathematics requires appropriate mathematics placement score (or see advisor).

**Program Reviewed:** Feb 22, 2016

**Key:**

*IW=Intensive Writing*  
*F2F=Face-to-Face Instruction*  
*ITV=Instructional Television*  
*VC=Virtual Campus/Online*

<i>Requirements</i>	<i>Course(s) Recommended</i>	<i>Delivery Method</i>	<i>Credits</i>
<b>First Semester (Fall):</b>			
Core Curriculum	AVT 104 Introduction to Electronics	F2F	7
Core Curriculum	AVT 107 Avionics Fundamentals to Include UASs	F2F	4
Core Curriculum	AVT 112 Electronic Devices and Circuits I	F2F	8
Core Curriculum	AVT 220 Navigation Systems to Include UASs	F2F	4
<b>Second Semester (Spring):</b>			
Core Curriculum	AVT 115 Digital and Microprocessor Fundamentals	F2F	8
Core Curriculum	AVT 202 Electronic Communications to Include UASs	F2F	8
Core Curriculum	AVT 205 Electronic Devices and Circuits II	F2F	4
Core Curriculum	AVT 208 FCC/FAA Regulations	F2F	3
Core Curriculum	AVT 228 Aircraft Radar Systems to Include UASs	F2F	4
Core Curriculum (Summer)	AVT 218 UASs and Ground Control Stations	F2F	4
Core Curriculum (Summer)	AVT 224 Autopilot & Control Systems to Include UASs	F2F	3
<b>Third Semester (Fall):</b>			
General Education-Composition	ENG 101 Composition	F2F,VC	3
General Education-Mathematics	MAT 132 Applied Mathematics or higher	F2F,VC	3-4
General Education-Technology Literacy	CIS 116 Computer Essentials or CIS 120 Intro to Info Systems	F2F,VC	3
<b>Fourth Semester (Spring):</b>			
General Education-Composition	ENG 102 English Composition	F2F,VC	3
General Education-Liberal Arts		F2F,VC	3
General Education-Liberal Arts		F2F,VC	3

**Total credits required:** 75-76

**Notes:**

AVT courses are offered in various week formats. Consult the Aviation Department.