

Kansas State Polytechnic: College of Technology and Aviation

Certificates and Minors

Composite Repair Certificate

(12 credit hours required for completion)

Fall Semester (5 credit hours)

3	AVT 317	Composites I
2	AVT 318	Composites I Laboratory

Spring Semester (7 credit hours)

4	AVT 400	Composites II
3	AVT 417	Composites III

Aviation Electronics Technology Certificate

(20 hours required for completion)

Required core courses (13 credit hours)

3	AVM 305	Introduction to Aircraft Avionics and Instruments**
3	AVT 315	Advanced Avionics
3	AVT 327	Avionics Repair
4	ECET 100	Basic Electronics*

Elective Courses (7 credit hours)

4	AVT 330	Avionics Troubleshooting
3	AVT 429	Avionics Maintenance
4	AVT 430	Advanced Avionics Installation

*Students with an FAA Airframe (A) Certificate may test out of these courses.

**Students with an FAA Airframe (A) Certificate or an FAA Private Pilot Certification may test out of this course.

Applied Manufacturing Certificate

(17 credit hours required for completion)

Required Courses

3	MET 111	Technical Graphics
3	MET 117	Mechanical Modeling and Detailing
3	MET 121	Manufacturing Methods
2	MET 125	Computer-Numerical-Controlled Machine Processes
3	MET 225	Additive Manufacturing
3	MET 231	Physical Materials and Metallurgy

Aviation Safety Minor

(15 hours required for completion)

Required core courses (6 credit hours)

3	AVT 340	Human Factors in Aviation
3	AVT 450	Aviation Safety Management

Elective courses (9 credit hours)

3	AVT 250	Safety and Security of Airport Ground Operations
3	AVT 420	Aviation Accident Investigation
3	AVT 451	System Safety
3	PPIL 387	Crew Resource Management I

Business Minor (15 credit hours)

Students must achieve a minimum GPA of 2.5

Required Courses (9 hours)

3	ACCTG 231	Accounting for Business Operations
3	ACCTG 241	Accounting for Investing and Financing
3	FINAN 450	Principles of Finance
3	MANGT 420	Management Concepts
3	MKTG 400	Introduction to Marketing

Unmanned Aircraft Systems Minor

(15 credit hours)

Students must achieve a minimum GPA of 2.5 and a grade of "C" or better is required in all coursework.

Required Courses (9 hours)

3	UAS 270	Introduction to Unmanned Aircraft Systems
3	COT 674	Processing Techniques for Low Altitude Remotely Sensed Data
3	COT 675	Acquisition and Advanced Processing of LARS Data

Elective Courses (6 hours)

3	UAS 370	Small Unmanned Aircraft Systems Design and Construction
3	UAS 373	Small Unmanned Aircraft Design and Construction for Non-Aviators
1	UAS 461	Autonomous Flight Simulation Lab
3	UAS 463	Introduction for Autopilots and Mission Planning for Non-Aviators
2	UAS 465	Autopilot Integration

**For more information about
certificates and minors, contact:**

Kansas State Polytechnic
Office of Admissions
2310 Centennial Road
Salina, KS 67401-8196
785-826-2640
polytechnic@k-state.edu

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Post-Graduation Statistics
k-state.edu/postgrad-stats
ksdegreestats.org