

## 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 231	Physical Materials and Metallurgy
3	MET 325	Additive Manufacturing

### 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	Principles of Management
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	UAS 474	Introduction to Processing Remotely Sensed Data
3	UAS 475	Data Acquisition and Post-processing

#### 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

### Human Development and Family Science Minor

(15 credit hours)

#### Required Courses (9 hours)

3	HDFS 110	Introduction to Human Development
3	HDFS 302	Introduction to Human Sexuality
3	HDFS 350	Family Relationships and Gender Roles

#### Elective Courses (6 hours)

3	ECED 310	Early Childhood
3	HDFS 506	Middle Childhood and Adolescence
3	HDFS 510	Human Development and Aging
3	HDFS 550	Family Theory and Science
3	HDFS 552	Families and Diversity
3	HDFS 670	Working with Parents
3	PPF 105	Introduction to Personal Financial Planning
3	HDFS electives (300, 500, or 700)	

**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

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