



CERTIFICATES & MINORS

2018-19 STUDY GUIDE

Applied Manufacturing Certificate

17 credit hours required

Required coursework:

MET 111	Technical Graphics	3
MET 117	Mechanical Modeling & Detailing	3
MET 121	Manufacturing Methods	3
MET 125	Computer-Numerical-Controlled Machine Processes	2
MET 231	Physical Materials & Metallurgy	3
MET 325	Additive Manufacturing	3
Total		17

Aviation Electronics Technology Certificate

20 credit hours required

Required coursework

Core courses:

AVM 305	Introduction to Aircraft Avionics & Instruments*	3
AVT 315	Advanced Avionics	3
AVT 327	Avionics Repair	3
ECET 100	Basic Electronics**	4
Total		13

Electives:

Choose 7 credit hours from the following courses.

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

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

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Aviation Safety Minor

15 credit hours required

Required coursework

Core courses:

AVT 340	Human Factors in Aviation	3
AVT 450	Aviation Safety Management	3
Total		6

Electives:

Choose 9 credit hours from the following courses.

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

Business Minor

15 credit hours required

Required coursework:

ACCTG 231	Accounting for Business Operations	3
ACCTG 241	Accounting for Investing & Financing	3
FINAN 450	Principles of Finance	3
MANGT 420	Principles of Management	3
MKTG 400	Introduction to Marketing	3
Total		12

A POLYTECHNIC EDUCATION IS:



INNOVATIVE LEARNING:

Learning by doing, through hands-on projects, lab time and in-the-field training.



REAL-WORLD EXPERIENCE:

Exploring innovations in your field through research, practicum and internship opportunities.



INDUSTRY CONNECTIONS:

Building relationships with industry members and gaining insight into your future career.



STUDENT-FOCUSED:

Faculty are focused on your personalized experience, working alongside you in the lab and classroom.

Composite Repair Certificate

12 credit hours required

Required coursework:

AVT 317	Composites I	3
AVT 318	Composites I Laboratory	2
AVT 400	Composites II	4
AVT 417	Composites III	3
	Total	12

Human Development & Family Science Minor

15 credit hours required

Required coursework

Core courses:

HDFS 110	Introduction to Human Development	3
HDFS 302	Introduction to Human Sexuality	3
HDFS 350	Family Relationships & Gender Roles	3
	Total	9

Electives:

Choose 6 credit hours from the following courses.

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

Unmanned Aircraft Systems Minor

15 credit hours required

Required coursework

Core courses:

UAS 270	Introduction to Unmanned Aircraft Systems	3
UAS 474	Introduction to the Processing of Remotely Sensed Data	3
UAS 475	Data Acquisition & Post-Processing	3
	Total	9

Electives:

Choose 6 credit hours from the following courses.

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

Kansas State University Accreditation

We take our reputation seriously. Accreditation validates the quality of an institution as a whole, offering evaluated measurements of everything from academic offerings, governance, administration, mission, finances and resources. Kansas State University has been continuously accredited by the Higher Learning Commission (HLC) since 1916. k-state.edu/assessment/accreditation

For full course descriptions,
visit courses.k-state.edu