



Uncrewed Aircraft Systems

Student Learning Outcomes

- 1 Communication- The student will demonstrate the ability to communicate effectively using written and/or oral communication.
- 2 Information Literacy- The student will recognize when information is needed and have the ability to locate, evaluate, and use effectively the needed information.
- 3 Problem Solving- The student will demonstrate the ability to analyze information and solve problems.
- 4 Workplace Skills - Demonstrates a mastery of workplace skills/soft skills, exhibits initiative, adapts to varied situations

Program Outcomes

- 1 Design and program an effective drone flight plan based on mission parameters
- 2 Compare and contrast the various types of UAS hardware and software
- 3 Describe the challenges of effectively, ethically and safely integrating a UAS into the National Airspace
- 4 Demonstrate skills in Drone communications, navigation
- 5 Demonstrate skills in photogrammetry
- 6 Demonstrate skills in communicating data collection in ArcGIS systems and maps.

Fall

Course #	Course Title	Credits	Function
UAS 185	Multi-Rotor Flight	4	Technical Studies
UAS 180	Ground School	4	Technical Studies
UAS 190	Videography	4	Technical Studies
MTH 112	College Algebra*	3	General Studies

Spring

Course #	Course Title	Credits	Function
UAS 220	UAS Multi-Rotor Maintenance	6	Technical Studies
UAS 225	Post-Processing	3	Technical Studies
UAS 235	UAS Small Business Fundamentals	3	Technical Studies
ENG 101	Composition I*	3	General Studies

Fall

Course #	Course Title	Credits	Function
UAS 240	Multi-Rotor Instructor	6	Technical Studies
UAS 250	Advanced post-Processing	6	Technical Studies
	Communication Elective *	3	General Studies
	Humanities Elective *	3	General Studies

Spring

Course #	Course Title	Credits	Function
UAS 255	Advanced Payloads	3	Technical Studies
UAS 260	Fixed-Wing Construction	3	Technical Studies
UAS 265	Fixed-Wing UAS Flight	3	Technical Studies
UAS	Experiential Learning Elective**	3	Elective
	Social Science Elective*	3	General Studies

****Experiential Learning Electives**

Course #	Course Title	Credits	Function
UAS 275	UAS Internship		Elective
UAS 273	Capstone		Elective

* Kansas Systemwide General Education

Technical Certificate, Uncrewed Aircraft Systems**Total Credits 24****Fall**

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UAS 185	Multi-Rotor Flight	4	Technical Studies
UAS 190	Videography	4	Technical Studies

Spring

Course #	Course Title	Credits	Function
UAS 220	UAS Multi-Rotor Maintenance	6	Technical Studies
UAS 225	Post-Processing	3	Technical Studies
UAS 235	UAS Small Business Fundamentals	3	Technical Studies