Renewable Energy sUAS (Drones) Associate of Applied Science



Across the U.S. and around the world, small unmanned aircraft systems (sUAS; under 55 lbs.) are rapidly transforming businesses and industries. UAV's, or drones, are projected to be a \$21 billion industry by 2022. UAV's are already being implemented in agriculture, infrastructure, package delivery, EMS, law enforcement, wind turbine blade inspections, utility substation and power line inspections, wildlife monitoring and reporting, mining, pipeline inspection, and real estate to name just a few. Almost every industry in the next few years will be utilizing UAVs in some capacity. The CCCC sUAS program provides training for students who want to become involved in an industry in its infancy. CCCC offers a one-year certificate and a two-year Associate of Applied Science degree program in sUAS.

General Education Required Courses	<u>19 cr</u>	
Communication Requirement	6	*All electives should be selected with assistance from an advisor
CM101 English Composition I (3 cr) or		
CM120 Survey of Technical Writing (3 cr)		General Education substitutions must be approved by the Vice President
CM115 Public Speaking (3 cr) or		for Academic Affairs.
CM240 Interpersonal Communication (3 cr)		Program substitutions must be approved by the department chair.
Humanities Requirement	3	Trogram substitutions must be approved by the department chair.
ArtHumanities		Recommended Course Sequence:
MusicLiterature		First Semester: UA100, UA110, WE110, WE250, MA110
TheatrePhilosophy		
Foreign LanguageHistory		Second Semester: UA140, UA150, UA201, UA210, WE240
Mathematics Requirement	3	Third Semester: WE255
MA104 Technical Math (3 cr) or		Fourth Semester: WE280
MA110 Intermediate Algebra (3 cr) or		
Mathematics General Education Course		First Semester: Second Semester:
Natural Science Requirement	4	
SC107 Meteorology (4 cr) <i>recommended</i>	-	
Social/Behavioral Science Requirement	3	
SS101 General Psychology (3 cr) recommende		
Required Courses UA100 Introduction to sUAS	27 cr	
UA110 SUAS Ground School	3 3	
UA140 sUAS Applications	3	
UA150 sUAS Personnel, Safety, & Crew Res. Mgn	-	
UA201 sUAS Command, Control, & Comm.	3	Third Semester: Fourth Semester:
UA210 sUAS Systems & Conceptual Design	3	
WE240 GIS/GPS	3	
WE250 Data Acquisition and Communications	3	
WE255 Airfoils and Composite Repair	3	
Elective Courses *	<u> 16 cr</u>	
AG255 Precision Ag Hardware	3	
AG256 Precision Ag Software	3	
AR129 Introduction to Digital Photography	3	
CS140 Introduction to Robotics	3	
CS141 Introduction to Additive Manufacturing		Anti-instal Cuslostica Tatal Hauss
(3D Printing)	3	Anticipated Graduation Total Hours
CS145 Introduction to CAD	3	Minimum 62 credit hrs. with minimum GPA 2.0.
CS155 Networking & Computer Technology	3	
EC101 Principles of Macroeconomics	3	
MG102 Introduction to Entrepreneurship	3	
SC109 Applied Physics	3	
WE110 Electrical Theory	3	Kansas There are many factors to consider when picking the college and the degree that are the best match for you. Explore ksdegreestats.org to learn more about the
WE110 Electrical Theory WE280 Wind Energy Technology Internship		DegreeStats specific costs of each undergraduate degree program offered in Kansas, and the
we2oo wind Energy rechnology internship	4	earnings those graduates are making today.

Total Credits Required 62

Advisement Center

Printable Degree Planning Guide

GENERAL EDUCATION COURSES

Catalog year 2023 – 24

COMMUNICATIONS CM101 English Composition I [placement] CM102 English Composition II [Comp I] CM106 Creative Writing (AA/AS only) CM115 Public Speaking CM120 Survey of Technical Writing (Cert/AAS/AGS only) [placement or Transitional English] CM240 Interpersonal Communications **HUMANITIES** Arts AR100 Art Appreciation Foreign Language FL105 French I FL111 Spanish I FL113 German I History HI108 Women in American Society HI120 World History I HI121 World History II HI122 US History I HI123 US History II HI124 Introduction to History **Humanities** CM106 Creative Writing HU201 Humanities I [Comp I] HU202 Humanities II [Comp I] JN100 Mass Media in Society <u>Literature</u> CM121 Intro to Literature [Comp I] CM122 American Literature I [Comp I] CM123 American Literature II [Comp I] CM124 World Literature [Comp I] CM127 The Short Story [Comp I] Music MU100 Music Appreciation MU101 American Music MU102 World Music MU103 History of Rock Music Philosophy PH100 Intro to Philosophy PH105 Ethics **RE104 World Religion**

Theatre

CM140 Theater Appreciation CM148 American Cinema Appreciation

MATHEMATICS

MA104 Technical Math (Cert/AAS only) MA105 Survey of Math (Cert/AAS only) MA110 Intermediate Algebra [placement] (Cert/AAS/AGS only) MA111 College Algebra [placement] MA112 Trigonometry [Col Alg or placement] MA114 Elementary Statistics [placement or College Alg] MA115 General Calculus [College Algebra]

MATH CON'T.

MA120 Analytical Geom/Calc I [see catalog] MA121 Analytical Geom/Calc II [Calc I] MA130 Contemporary Math [placement or Interm Alg]

NATURAL SCIENCES

<u>Biological Scien</u>ce SC101 General Biology SC110 Principles of Biology I SC120 Human Anatomy & Physiology I SC126 Anatomy and Physiology SC151 Principles of Biology II **Physical Science** SC103 Physical Science [Int Alg or placement] SC104 Geology SC105 General Astronomy SC107 Meteorology SC130 General Chemistry [Elem Alg or placement] SC131 Chemistry I [Int Alg or placement] SC137 Natural Hazards & Disasters SC138 Natural Hazards & Disasters Lab SC140 College Physics I [see catalog] SC142 University Physics [co-req Calc I] SC146 Environmental Science and Conservation SC147 Environmental Science and Conservation Lab

SOCIAL / BEHAVIORAL SCIENCES

Anthropology SS125 Intro to Cultural Anthropology Economics EC101 Principles of Macroeconomics EC102 Principles of Microeconomics Geography GE101 World Geography **Political Science** SS140 US Government – National SS141 US Government – State & Local SS142 Current Political Issues SS150 Introduction to International Relations Psychology SS101 General Psychology SS105 Human Growth & Development Sociology SS106 Marriage & Family SS130 Introduction to Sociology SS131 Cultural Diversity and Ethnicity SS201 Social Problems

Pre-requisites are listed in []

Students should see the current catalog for specific program requirements.

The Kansas Board of Regents has approved courses for guaranteed transfer among all Kansas public postsecondary institutions. Visit www.kansasregents.org/transfer articulation for more information.

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