

**College of Basic and Applied Sciences  
Upper Division Form 2020-2021 Catalog**

Student name \_\_\_\_\_ Student # \_\_\_\_\_

Major **AEROSPACE** Minors \_\_\_\_\_

Concentration **Unmanned Aircraft Systems (UAS) Operations** E-mail \_\_\_\_\_

**Instructions: For students graduating in Summer 2020 or later. One (1) copy signed by major and minor advisors should be filed in DSB 120 three semesters before anticipated graduation. An Intent to Graduate form must also be filed in DSB 120 at the time of Upper Division Form submission.**

General Education	Course	Semester	Grade	Notes	Credit Hours
<b>COMMUNICATION</b> (9 hours)	ENGL 1010				3
	ENGL 1020			Preq ENGL 1010 with C- or better	3
	COMM 2200				3
<b>HISTORY</b> (6 hours) Choose two: HIST 2010, HIST 2020, HIST 2030					3
					3
<b>HUMANITIES AND/OR FINE ARTS</b> (9 hours) Choose one: ENGL 2020, 2030 or HUM 2610. Choose two different subjects: ANTH 2210, ART 1030, ART 1920, DANC 1000, HIST 1010, 1020, 1110, or 1120, MUS 1030, PHIL 1030, THEA 1030				Preq ENGL 1010 & 1020	3
					3
<b>MATHEMATICS</b> (3 hours) MATH 1010, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, <b>MATH 1810, MATH 1910</b>				*program requires <b>MATH 1810 or MATH 1910*</b> <b>Preq MATH 1710 or 19 ACT/1730 or 26 ACT</b> Must be completed with a C (2.0) or better	3 of 4
<b>NATURAL SCIENCES</b> (8 hours) Choose two different subjects: ASTR 1030/1031, BIOL 1030/1031, BIOL 1110/1111, BIOL 2010/2011, BIOL 2020/2021, CHEM 1010/1011, CHEM 1030/1031, CHEM 1110/1111, CHEM 1130/1131 (same as PHYS 1130/1131), GEOL 1030/1031, GEOL 1040/1041, PGEO 1030, PHYS 1110, PHYS 1130/1131 (same as CHEM 1130/1131), <b>PHYS 2010/2011, PHYS 2110/2111</b> , PSCI 1030/1031				*program requires <b>either PHYS 2010/2011 or PHYS 2110/2111*</b> Preq <b>MATH 1710 with a "C" or better</b> Must be completed with a C (2.0) or better	4
				GEOL recommended; Must be completed with a C (2.0) or better	4
<b>SOCIAL/BEHAVIORAL SCIENCES</b> (6 hours) Choose two different subjects: AAS 2100, ANTH 2010, ECON 2410, ECON 2420, GEOG 2000, GS 2010, HLTH 1530 / 1531, JOUR/EMC/RIM 1020, PS 1010, PS 1005, PSY 1410, RS 2030, SOC 1010, SOC 2010, WGST 2100				ECON recommended	3
				GEOG recommended	3
<b>Hours Required</b>					<b>41</b>

Major Courses - Grade of C (2.0) or better required in each major course	Course	Semester	Grade	Notes	Credit Hours
Introduction to Aerospace	AERO 1010				3
Theory of Flight	AERO 1020			Lab fee required	3
Introduction to Unmanned Aircraft Systems	AERO 1710			Spring/summer only	3
Aviation Weather	AERO 2010			Coreq AERO 3210	3
Professional Pilot I	AERO 2230				3
<b>Choose one:</b> AERO 2201 Professional Pilot I Flight Lab <b>OR</b> AERO 2710 UAS Remote Pilot Certification	AERO 2201			Preq or Coreq: AERO 2230; Lab fee; submit lab request form	2
	AERO 2710			Fall only Preq: AERO 1020, 1710 with a C(2.0) or better, 2230; Lab fee	
Small Unmanned Aircraft Components	AERO 2720			Spring only Preq: AERO 1710 with a C(2.0) or better	1
Aerospace Materials	AERO 3020			Preq: AERO 1010, 1020, MATH 1810 or 1910	3
Propulsions Fundamentals	AERO 3030			Preq: AERO 1010, 1020	3

Aviation Safety	AERO 3170			Preq: AERO 1020	3
<b>Choose one:</b> AERO 3210 Professional Pilot II <b>OR</b> AERO 3510 Instrument Operations in the NAS	AERO 3210			Coreq AERO 2010; Preq AERO 2010, 2230/2201,3203; Pvt Cert required	3
	AERO 3510			Preq: AERO 2230	
Crew Resource Management	AERO 3230				3
Fundamentals of Aerodynamics	AERO 3440			Preq Lab fee required; MATH 1810 or 1910, PHYS 2010/2011	3
Unmanned Aircraft	AERO 3710			Preq AERO 2720 with a C(2.0) or better Coreq: AERO 3711	1
Unmanned Aircraft Lab	AERO 3711			Coreq: AERO 3710	2
Unmanned Aircraft Systems	AERO 3720			Preq AERO 2201 or 2710, 3710/3711 with a C(2.0) or better, Remote Pilot Certificate Coreq: AERO 3721	1
Unmanned Aircraft Systems Lab	AERO 3721			Coreq AERO 3720	2
Unmanned Remote Sensing	AERO 3730			Preq AERO 3720/3721 with a C(2.0) or better; Coreq AERO 3731	1
Unmanned Remote Sensing Lab	AERO 3731			Coreq AERO 3730	2
Aerospace Senior Capstone Course	AERO 4040			Preq AERO 1010, 1020 Pr/Creq: AERO 3020, 3030	1
Unmanned Aircraft Systems Operations Capstone	AERO 4710			Preq 3730/3731 with a C(2.0) or better	3
<b>Hours Required</b>					<b>49</b>

Supporting and Elective Courses					
Supporting and Elective Courses	Course	Semester	Grade	Notes	Credit Hours
PHYS 2010/2011 or PHYS 2110/2111				<b>Credits can count in general education;</b> Must be completed with a C (2.0) or better	0-4
MATH 1810 or MATH 1910				<b>Credits can count in general education;</b> Must be completed with a C (2.0) or better	0-3/-4
Computer Science I	CSCI 1170			MATH 1730 or 1810 with a C (2.0) or higher, ACT MATH of 26, or Calculus Placement test with satisfactory score	4
Introduction to Electricity and Electronics	ET 3610			Preq MATH 1710 or 1730	4
Digital Circuit Fundamentals	ET 3620			Preq: POD	3
Remote Sensing	PGEO 4490				4
Geographic Information Systems	PGEO 4530				3
Intermediate Geographic Information Systems	PGEO 4560			Preq PGEO 4530	3
Choose one: PHOT 1050 or VFP 1060					3
Choose one: MGMT 3600 or MGMT 3610	MGMT _____				3
Choose one: BCED 1400 or ENTR 2900 or AGBS 2130					3
<b>Hours Required</b>					<b>30</b>

- 1. Degrees require a minimum of 120 semester hours completed with a cumulative and major GPA of 2.0 or higher. Minimum of 36 upper-division hours (3000/4000 level) and a minimum of 50 senior college hours (earned at four-year University) also required.**
- 2. A minimum of 12 credits must be earned at the 3000/4000 level in each major**

<b>Signed:</b>		
	<b>Major Advisor</b>	<b>Date</b>

Optional Minor	Course	Semester	Grade	Notes	Credit Hours
<b>Hours Required</b>					