



2025 - 2027
Department Aviation and Emergency Management
Curriculum Balance Sheet
Major: Unmanned Aircraft Systems

Student Name: _____ **Date Enrolled:** _____ **Banner ID:** _____

A. General Education **Title** **36 CREDITS**

Subject	Course # and Title	Equivalent Course	Year Taken	Grade	Credit Hrs

B. Major Requirements **36 CREDITS**

1. Core Courses

Subject	Course #	Title	Equivalent Course	Year Taken	Grade	Credit Hrs
AVI	220	Air Transportation (PR: none)				3
AVI	230	Aviation Management (PR: AVI 100 OR UAS 100)				3
AVI	250	Basic Aerodynamics and Flight Physics (PR: AVI 100 OR UAS 100)				3
AVI	270	Air Traffic Control and the National Airspace Sys (PR: AVI 100 OR UAS 100)				3
AVI	315	Aviation Legislation and Ethics (PR: AVI 100, AVI 220)				3
AVI	370	Aviation Research Methods and Statistics (Junior level or instructor's consent)				3
AVI	460	Aviation or UAS Internship (PR: Written consent by the Program Director)				3
		OR				
AVI	465	Aviation Capstone (Senior Project) (PR: AVI 370)				3
UAS	100	Introduction to Unmanned Aircraft Systems (PR: none)	UAS-111			3
UAS	200	UAS and the NAS: Laws & Regulations (PR: none)				3
UAS	250	Operational Sensors & Payloads (PR: UAS 100 or 200)	UAS-230			3
UAS	350L	UAS Design Lab (PR: UAS 250)				3
UAS	400L	UAS Application Lab. (PR: UAS 200)				3

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2. Core Electives **12 CREDITS**

Directions: Select 12 credit hours from the courses below.

Subject	Course #	Title	Equivalent Course	Year Taken	Grade	Credit Hrs
AVI	232	Safety Management Systems (AVI 100)				3
AVI	314	Aviation Meteorology (PR: AVI 100 OR UAS 100)				3
AVI	430	Airport Planning and Management (PR: AVI 100, AVI 220, AVI 230, AVI 315)				3
ENGT	100/L	Introduction to Engineering Technology (PR: none)	EGR-115			4
ENGT	105	Computer Aided Design (CAD) (PR: none)	CEG-151			3
FLT	110	Private Pilot Ground (PR: none)				3
UAS	215	UAS Maintenance (PR: UAS 100)				3
UAS	315	UAS for Public Safety Operations (PR: UAS 100 or UAS 200)				3
UAS	360	UAS Flight Simulation (PR: UAS 100 or UAS 200)	UAS-150			3
UAS	380	Aviation & UAS Cyber Security (PR: UAS 100 or UAS 200)				3
UAS	410	UAS Sensor Data Analytics (PR: UAS 400L)				3

*Our course is only 3 credit hours

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C. Related Area Electives **Any UAS, AVI, AVNC, EM, ATC, CSC, ENGT, BAUD, ACC, ECON, MNGT** **15 CREDITS**

Directions: Select 15 credit hours from the courses below.

Subject	Course #	Title	Equivalent Course	Year Taken	Grade	Credit Hrs
			GIS-111			3
			SRV-110			4
			SRV-111			4
			CIV-111			4

Introduction to GIS
 Surveying I
 Surveying II
 15 Soils and Foundations

D. Free Electives **21 CREDITS**

			CEG-235			3
			CEG-210			3
			GIS-112			3
			CEG-212			3

Proj. Mgmt/Estimating
 Construction Materials & Methods
 Introduction to GPS
 Introduction to Environmental Technology

			CEG-211			3
			CEG-230			3

TOTAL CREDITS: 120

E. General Education 15 CREDITS

			MAT-171			3
			ENG-111			3
			ENG-112			3
			PSY-150			3
			PHI-240			3

Hydrology & Erosion Control
 Subdivision Planning & Design
 19 Statics

Precalculus Algebra (University transfer)
 Expository Writing
 Writing/Research in the Disciplines
 General Psychology
 15 Introduction to Ethics
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