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

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

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

Subject		Course # and Title	Equivalent Course	Year Taken	Grade	Credit Hrs	
ECON	201	Principles of Economics I	ECO 251			3	
MNGT	321	Human Resource Management	BUS 153			3	
ENGL	102	Composition I	ENG 111			3	
ENGL	103	Composition II	ENG 112			3	
ART	132	Art Appreciation	ART 111			3	
MATH	118	College Algebra	MAT 121 OR MAT 171			3 or 4	18
UNIV	120	Freshman Seminar I				1	

B. Major Requirements **35 CREDITS**

1. Core Courses

Subject	Course #	Title	Equivalent Course	Year Taken	Grade	Credit Hrs	
AVI	220	Air Transportation (PR: none)	AER 217 Air transportation			3	
AVI	230	Aviation Management (PR: AVI 100 OR UAS 100)	AER 114			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)	AER 211			2	
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 110			3	
UAS	200	UAS and the NAS: Laws & Regulations (PR: none)	UAS 111			3	
UAS	250	Operational Sensors & Payloads (PR: UAS 100 or 200)	UAS 230			3	17
UAS	350L	UAS Design Lab (PR: UAS 250)				3	
UAS	400L	UAS Application Lab. (PR: UAS 200)				3	

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)	AER 215			3	
AVI	314	Aviation Meteorology (PR: AVI 100 OR UAS 100)	AER 111			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)				4	
ENGT	105	Computer Aided Design (CAD) (PR: none)				3	
FLT	110	Private Pilot Ground (PR: none)	AER 150			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 flight simulation			3	12
UAS	380	Aviation & UAS Cyber Security (PR: UAS 100 or UAS 200)				3	
UAS	410	UAS Sensor Data Analytics (PR: UAS 400L)				3	

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	
ECON	201	Principles of Economics I				3	
MNGT	321	Human Resource Management				3	
CSC	111	Intro to Computer Applications	CIS 110			3	3
						3	
						3	

D. Free Electives **21 CREDITS**

History of Aviation	**AER 113**	**2**
Avionics	**AER-213**	**2**
Instrument Flight Theory	**AER-160**	**3**
Commercial Flight Theory	**AER-170**	**3**
Human Factors in Aviation	**AER-218**	**2**

12
62

TOTAL CREDITS: 119