

Elizabeth City State University
"Department of Technology – Aviation Science"
Effective: Fall 2019

A Uniform Articulation Agreement

Between

Aviation Science Programs

And

The North Carolina

Community College System Institutions

With

Associate Degree Programs in Aviation Science



ELIZABETH CITY STATE UNIVERSITY

FOUNDED 1891

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BACKGROUND

Elizabeth City State University (ECSU) offers a baccalaureate degree program in Aviation Science, including specializations in Flight Education/Professional Pilot, Aviation Management, Aviation Electronics (Avionics), Air Traffic Control, and Unmanned Aerial Systems. The B.S. Aviation Science degree is a four-year collegiate aviation education program designed to prepare students for a variety of positions in both the aviation and aerospace industries. ECSU is the only institution in the University of North Carolina System with aviation programs.

ECSU currently has an articulation agreement with Guilford Technical Community College. At least three additional community colleges have expressed interest in establishing aviation sciences articulation agreements.

PURPOSE

This document presents an academic progression agreement that will promote educational advancement opportunities for aviation science programs. As of March 2019, the agreement will be effective between ECSU and the following North Carolina community colleges, with specifics of the programs listed in the appendices A-C:

Guilford Technical Community College

Lenoir Community College

Sandhills Community College

In the future, should additional North Carolina community colleges desire to join into this agreement, they need only agree to the terms herein and their articulation matrix will be added to the appendices. The community college and ECSU will not need to construct a separate articulation agreement—this agreement shall serve as a multi-lateral articulation agreement open to all North Carolina community colleges to join, as long as they agree to the provisions contained in this agreement.

TERMS

ECSU and the signatory community colleges acknowledge that recipients of an Associate in Applied Science (AAS) degree may seek to transfer to ECSU to pursue a Bachelor of Science in Aviation Science degree, with minors in Flight Education, Aviation Management, Air Traffic Control, or Avionics. Therefore, ECSU and the community college signatories hereby join in a collaborative effort to facilitate the transfer of students graduating with AAS degrees to a baccalaureate degree program in Aviation Science at ECSU and agree to the following terms and conditions:

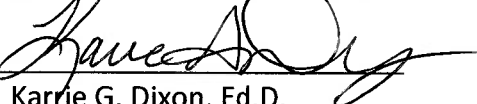
1. The parties agree that a recipient of an AAS degree in an aviation-related field offered at a community college party to this agreement, (and as noted in the related appendix) with at least a cumulative grade point average (GPA) of 2.0 based on a 4.0 scale will be admitted to ECSU, provided all other conditions are satisfied.
2. ECSU agrees to accept college transfer coursework completed at the signatory community college as equivalents to the courses in accordance with Schedule A, for general education credits, and in the associated appendix for the separate community colleges for requirements related to the B.S. in Aviation Science and the desired concentration, subject to the requirements of ECSU's Undergraduate Admissions Policy (ECSU Policy 300.3.1), as it may be amended from time to time. The courses approved for transfer credit must have been taught by the community college's faculty who meet their institution's credential requirements and those of the Southern Association of Colleges and Schools Commission of Colleges (SACSCOC). Only courses with a grade of "C" or better from an accredited institution are considered transferable.
3. A recipient of an AAS degree from the community colleges who applies for admission to ECSU and is admitted as a transfer student may receive up to 65 semester hours of academic credit. Courses with grades of "C" or higher will transfer based on the allowance indicated by Schedule A and the individual institution's appendix.
4. A minimum of thirty (30) semester hours of credit at the upper level must be earned through regular enrollment at ECSU, including a minimum of fifteen (15) semester hours of credit in junior/senior-level courses in the major field. A minimum of 120 semester hours of credit must be completed for ECSU to award the Bachelor of Science in Aviation Sciences.
5. This agreement shall become effective on March 1, 2019 and shall remain in effect until amended in accordance with Section 6 below or terminated in accordance with Section 7 below. ECSU and the signatory community colleges will review the agreement biannually (odd number years) to review program content and any potential impact on this agreement, to allow changes prior to catalog revisions.
6. This agreement may be amended by mutual agreement between all parties. Signatory community colleges may amend their appendix as needed, as long as the changes do not violate the agreed-upon policies of the overarching multilateral agreements (e.g., changes in course numbers).

7. Parties have the right to terminate this agreement upon sixty (60) days advance written notice. Parties agree that community college signatories who may terminate this agreement by December 31, would affect students who would have entered ECSU the following Fall Semester. Should this agreement be terminated, it is understood that the termination will not apply to students already taking classes under this agreement, and who shall be afforded entry into ECSU by the provisions of this agreement upon completion of their AAS.

8. This agreement shall be governed by and construed in accordance with the internal laws of the State of North Carolina, U.S.A, without reference to any conflict of law provisions.

IN WITNESS WHEREOF, the Chancellor of Elizabeth City State University and the Presidents of the initial signatory community colleges have affixed their signatures below:

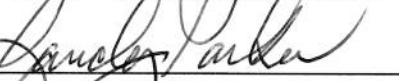
ELIZABETH CITY STATE UNIVERSITY

By: 
Karrie G. Dixon, Ed.D.
Chancellor

Date: 2-15-19

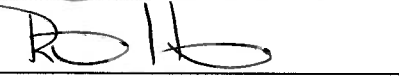
PARTICIPATING COMMUNITY COLLEGES

GUILFORD TECHNICAL COMMUNITY COLLEGE

By: 
Randy Parker, Ed.D.
President


Date: 2/14/2019

LENOIR COMMUNITY COLLEGE

By: 
Rusty Hunt, Ed.D.
President

Date: 2/8/19

SANDHILLS COMMUNITY COLLEGE

By: 
John R. Dempsey, Ed.D.
President

Date: 2-12-19

Schedule A

Elizabeth City State University Department of Technology

General Education Core Equivalencies for Bachelor of Science Degree in Aviation Science Specialization/Concentration: All

ECSU Course	Title	Sem. Hrs.	COMMUNITY COLLEGE Equivalent Course	Sem. Hrs.
General Education Core 35 Hrs.				
UNIV 110	Freshman Seminar I	1	ACA-111 College Student Success	1
UNIV 120	Freshman Seminar II	1	ACA-122 College Transfer Success	1
ENGL 102	English Composition & Grammar	3	ENG-111 Writing & Inquiry	3
ENGL 103	English Composition & Vocabulary	3	ENG-112 Writing/Research in the Disciplines	3
HLTH 185	Health Concepts	2	HEA-110 Personal Health/Wellness	3
	Physical Activity	1	PED-111, PED-113, PED-117, PED-119, PED-122, PED-123, PED-128, PED-139, PED-143, PED-152, PED-155	1
ENGL 201	World Literature I	3	ENG-261 World Literature I	3
	Humanities & Fine Arts	2-3	UGETC: CHI-111, CHI-112, CHI-211, CHI-212, SPA-111, SPA-112, SPA-211, SPA-212, ART-111, ART-114, ART-115, COM-231, ENG-231, ENG-232, ENG-241, ENG-242, MUS-110, MUS-112, PHI-215, PHI-240 Other Gen Ed Courses: COM-110, COM-120, DRA-111, DRA-112, DRA-126, HUM-110, HUM-115, HUM-120, HUM-121, HUM-122, HUM-130, HUM-150, HUM-160, HUM-161, HUM-211, HUM-212, MUS-210, REL-110, REL-111, REL-112, REL-211, REL-212, REL-221	5-6
HIST 140 HIST 141	World Civ. I OR World Civ. II	3	HIS-111 World Civilization I HIS-112 World Civilization II	3
	Social & Behavioral Science	6	UGETC: ECO-251, ECO-252, HIS-131, HIS-132, POL-120, PSY-150, SOC-210 Other Gen Ed Courses: ANT-210, ANT-220, GEO-111, POL-210, POL-220, SOC-213, SOC-225	6
GE 118	Pre-Calculus	3	MAT-171 Pre-calculus Algebra	3
PHYS 181	General Physics with Lab	4	PHY-251 General Physics I	4

	Natural Science and Math	3	UGETC: MAT-172, MAT-263, MAT-271, MAT-272, BIO-111, BIO-112, CHM-151, CHM 152, PHY-151, PHY-152, PHY-252 Other Gen Ed Courses: AST-111/111A, AST-151/151A, AST-152/152A, BIO- 140/140A, CHM-132, GEL-111, GEL-230, MAT-143, MAT-152, PHY-110/110A, BIO- 110, CHM-131/131A	4
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Appendix A

Guilford Technical Community College to Elizabeth City State University

Curriculum Guide – Major and Elective Requirements for

Aviation Science

Specialization/Concentration: Aviation Management

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Aviation Management & Career Pilot Technology, GTCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Aviation Management, ECSU*

ECSU Course	Title	Sem. Hrs.	GTCC Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	*AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation & Ethics	3	AER 112 Aviation Laws and FARs and AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Aviation Management Concentration 30 Hrs.				
BUAD 115	Introduction to Business	3	BUS 110 Introduction to Business	
MNGT 221	Principles of Management	3	BUS 137 Principles of Management	3
ECON 201	Principles of Economics I	3	ECO-252 Principles of Macroeconomics	3
ECON 202	Principles of Economics II	3	ECO-251 Principles of Microeconomics	3
ACCT 210	Financial Accounting	3	ACC 120 Principles of Financial Accounting	3 of 4

AVI 232	Aviation Safety Management System	3		
AVI 340	Corporate Flight Operations	3		
AVI 345	Airline Operations and Management	3	AER 114 Aviation Management	3
AVI 415	Aviation Project Management	3		
AVI 430	Airport Planning and Management	3	AER 220 Airport Management	2
Electives (Technical Restrictive 6*)18 Hrs.			**	
Note: ECSU courses have AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.
 Major Core Requirements..... 37 Hrs.
 Aviation Management Concentration.. 30 Hrs.
 Electives..... 18 Hrs.
 Total Hours Required for Degree..... 120 Hrs.

*AER 220 is not required as part of the GTCC Aviation Management program and must be taken as an elective.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 36 Credit Hours of the 78 required of the AVI Major/Aviation Management Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 41 credit hours for a B.S. in Aviation Science.

**Guilford Technical Community College
to
Elizabeth City State University**

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: *Flight Education/Professional Pilot*

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Career Pilot, GTCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Flight Education, ECSU*

ECSU Course	Title	Sem. Hrs.	GTCC Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation & Ethics	3	AER 112 Aviation Laws and FARs and AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Flight Education Concentration 31 Hrs.				
AVI 340	Corporate Flight Operations	3		
AVI 350	Advanced Aerodynamics	3		
AVI 420	Crew Resource Management	3		
AVI 275	Aircraft Systems I	3	AER 216 Engines and Systems	3
FLT 116L	Private Pilot Flight Lab	2	AER 151 Flight-Private Pilot and AER 171 Flight-Commercial Pilot	1 1
FLT 320	Instrument Ground	3	AER 160 Instrument Flight Theory	3
FLT 320L	Instrument Flight Lab	2	AER 161 Flight-Instrument Pilot	2

FLT 330	Commercial Ground	3	AER 170 Commercial Flight Theory	3
FLT 330L	Commercial Flight Lab	2	AER 171 Flight-Commercial Pilot	2 of 3
FLT 420 OR FLT 340	Flight Instructor Ground OR Multi-Engine Ground		AER 280 Instructor	
FLT 425L OR FLT 345L	Flight Instructor Flight Lab OR Multi-Engine Flight Lab			
Electives (Technical Restrictive 6*) 17 Hrs.			**	
Note: ECSU courses with AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.
 Major Core Requirements..... 37 Hrs.
 Flight Education Concentration..... 31 Hrs.
 Electives..... 17 Hrs.
 Total Hours Required for Degree..... 120 Hrs.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 42 Credit Hours of the 78 required of the AVI Major/Flight Education Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 36 credit hours for a B.S. in Aviation Science.

**Guilford Technical Community College
to
Elizabeth City State University**

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: *Avionics Concentration*

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Aviation Electronics (Avionics) Technology, GTCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Aviation Electronics, ECSU*

ECSU Course	Title	Sem. Hrs.	GTCC Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation& Ethics	3	AER 112 Aviation Laws and FARs and AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Avionics Concentration 30 Hrs.				
AVNC 100	Basic Avionics	3	AET 126 Electronics/Instruments and AET 214Aviation Navigation Systems	2 1
ENGT 100	Intro to Engineering Technology	3		
ENGT 105	CAD I	3		
AVNC 240 or ENGT 340	Flight Communication System OR Analog & Digital Communications	3	AET 220 Flight Management and AET 222 Aviation System Interconnect	2 1

AVNC 360 ENG T	Advanced Avionics OR Any 300 or above Electronics Course	3	AET 212 Aviation Communications Systems and AET 214 Aviation Navigation Systems	2 1
AVNC 380 Or ENG T 360	Flight Control System Or Control Systems	3		
ENG T 205/L	Circuit Analysis	4	AET 122 Airframe Electrical and AET Aviation Engine Electrical	2 2
ENG T 235/L	Analog & Digital Circuits I with Lab	4		
ENG T 335/L	Analog & Digital Circuits II with Lab	4		
Electives (Technical Restrictive 6*) 18 Hrs.			**	
			AET Aviation Engine Electrical	2
			AET 224 Advanced Wire/Troubleshooting	4
			AET 226 Flight Line Testing	2

General Education Core..... 35 Hrs.
 Major Core Requirements..... 37 Hrs.
 Avionics Concentration..... 30 Hrs.
 Electives..... 18 Hrs.
 Total Hours Required for Degree.... 120 Hrs.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 42 Credit Hours of the 78 required of the AVI Major/Flight Education Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 36 credit hours for a B.S. in Aviation Science.

Appendix B

Lenoir Community College to Elizabeth City State University

Curriculum Guide – Major and Elective Requirements for

Aviation Science

Specialization/Concentration: Aviation Management

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Aviation Management, LCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Aviation Management, ECSU*

ECSU Course	Title	Sem. Hrs.	Lenoir Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation& Ethics	3	AER 112 Aviation Laws and FARs and *AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	OR	3		
AVI 465	Aviation Capstone			
Aviation Management Concentration 30 Hrs.				
BUAD 115	Introduction to Business	3	BUS 110 Introduction to Business	3
MNGT 221	Principles of Management	3	BUS 137 Principles of Management	3
ECON 201	Principles of Economics I	3	ECO-252 Principles of Macroeconomics	3
ECON 202	Principles of Economics II	3	ECO-251 Principles of Microeconomics	3
ACCT 210	Financial Accounting	3	ACC 120 Principles of Financial Accounting	3 of 4

AVI 232	Aviation Safety Management System	3		
AVI 340	Corporate Flight Operations	3		
AVI 345	Airline Operations and Management	3	AER 114 Aviation Management	3
AVI 415	Aviation Project Management	3		
AVI 430	Airport Planning and Management	3	AER 220 Airport Management	2
Electives (Technical Restrictive 6*)18 Hrs.			**	
Note: ECSU courses have AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.***
 Major Core Requirements..... 37 Hrs.
 Aviation Management Concentration. 30 Hrs.
 Electives..... 18 Hrs.
 Total Hours Required for Degree..... 120 Hrs.

*AER 220 is not required as part of the Lenoir Aviation Management and must be taken as an elective.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 36 Credit Hours of the 78 required of the AVI Major/Aviation Management Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 41 credit hours for a B.S. in Aviation Science.

***General Education Core: Lenoir CC does not offer ENG 261 World Lit I. Course substitution of ENG 231 American Lit I or ENG 241 British Lit I can be accepted for credit.

**Lenoir Community College
to
Elizabeth City State University**

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: *Flight Education/Professional Pilot*

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Pilot (Manned), LCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Flight Education, ECSU*

ECSU Course	Title	Sem. Hrs.	Lenoir Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation& Ethics	3	AER 112 Aviation Laws and FARs and AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Flight Education Concentration 31 Hrs.				
AVI 340	Corporate Flight Operations	3		
AVI 350	Advanced Aerodynamics	3		
AVI 420	Crew Resource Management	3		
AVI 275	Aircraft Systems I	3	AER 216 Engines and Systems	3
FLT 116L	Private Pilot Flight Lab	3	AER 151 Flight-Private Pilot and AER 171 Flight-Commercial Pilot	1 1
FLT 320	Instrument Ground	3	AER 160 Instrument Flight Theory	3
FLT 320L	Instrument Flight Lab	3	AER 161 Flight-Instrument Pilot	2

FLT 330	Commercial Ground	3	AER 170 Commercial Flight Theory	3
FLT 330L	Commercial Flight Lab	3	AER 171 Flight-Commercial Pilot	2 of 3
FLT 420 OR FLT 340	Flight Instructor Ground OR Multi-Engine Ground	2	AER 280 Instructor	
FLT 425L OR FLT 345L	Flight Instructor Flight Lab OR Multi-Engine Flight Lab	2		
Electives (Technical Restrictive 6*) 17 Hrs.			**	
Note: ECSU courses with AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.***

Major Core Requirements..... 37 Hrs.

Flight Education Concentration..... 31 Hrs.

Electives..... 17 Hrs.

Total Hours Required for Degree..... 120 Hrs.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 42 Credit Hours of the 78 required of the AVI Major/Flight Education Concentration. Depending on amount of GE transfer; students will be required to take a minimum of 36 credit hours for a BS in Aviation Science.

***General Education Core: Lenoir CC does not offer ENG 261 World Lit I. Course substitution of ENG 231 American Lit I or ENG 241 British Lit I can be accepted for credit.

**Lenoir Community College
to
Elizabeth City State University**

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: Avionics Concentration

ASSOCIATE OF APPLIED SCIENCE DEGREE: Pilot (Unmanned), LCC

BACHELOR OF SCIENCE DEGREE: Aviation Science – Unmanned Aerial Systems (UAS), ECSU

ECSU Course	Title	Sem. Hrs.	Lenoir Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation& Ethics	3	AER 112 Aviation Laws and FARs and AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
UAS Concentration 30 Hrs.				
BUAD 115	Introduction to Business	3	BUS 110 Introduction to Business	3
MNGT 221	Principles of Management	3	BUS 137 Principles of Management	3
BUAD 190	Management Information Systems	3		
ACCT 210	Financial Accounting	3	ACC 120 Principles of Financial Accounting	3 of 4
ENGT 100	Introduction to Engineering	3	EGR 150 Intro to Engineering	2
UAS 100	Introduction to UAS	3	UAS 110 Intro to UAS Operations	3
UAS 200	UAS and the NAS: Laws & Regulations	3		
UAS 250	Operational Sensors and Payload	3		

UAS 350L	UAS App Lab I (Design)	3		
UAS 400L	UAS App Lab II (Pre-Ag/Surveying)	3		
Electives (Technical Restrictive 6*) 18 Hrs.				

General Education Core..... 35 Hrs.***

Major Core Requirements..... 37 Hrs.

Avionics Concentration..... 30 Hrs.

Electives..... 18 Hrs.

Total Hours Required for Degree... 120 Hrs.

***General Education Core: Lenoir CC does not offer ENG 261 World Lit I. Course substitution of ENG 231 American Lit I or ENG 241 British Lit I can be accepted for credit.

Appendix C

Sandhills Community College
to
Elizabeth City State University

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: Aviation Management

ASSOCIATE OF APPLIED SCIENCE DEGREE: *Aviation Management, SCC*

BACHELOR OF SCIENCE DEGREE: *Aviation Science – Aviation Management, ECSU*

ECSU Course	Title	Sem. Hrs.	Sandhills Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation& Ethics	3	AER 112 Aviation Laws and FARs and *AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Aviation Management Concentration 30 Hrs.				
BUAD 115	Introduction to Business	3	BUS 110 Introduction to Business	3
MNGT 221	Principles of Management	3	BUS 137 Principles of Management	3
ECON 201	Principles of Economics I	3	ECO-252 Principles of Macroeconomics	3
ECON 202	Principles of Economics II	3	ECO-251 Principles of Microeconomics	3
ACCT 210	Financial Accounting	3	ACC 120 Principles of Financial Accounting	3 of 4

AVI 232	Aviation Safety Management System	3		
AVI 340	Corporate Flight Operations	3		
AVI 345	Airline Operations and Management	3	AER 114 Aviation Management	3
AVI 415	Aviation Project Management	3		
AVI 430	Airport Planning and Management	3	AER 220 Airport Management	2
Electives (Technical Restrictive 6*)18 Hrs.			**	
Note: ECSU courses have AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.***

Major Core Requirements..... 37 Hrs.

Aviation Management Concentration. 30 Hrs.

Electives..... 18 Hrs.

Total Hours Required for Degree..... 120 Hrs.

*AER 220 is not required as part of the Sandhills Aviation Management and must be taken as an elective.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 36 Credit Hours of the 78 required of the AVI Major/Aviation Management Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 41 credit hours for a B.S. in Aviation Science.

*** ACA 115 Success & Study Skills (1 SCH) can be substituted for UNIV 110 Freshman Seminar (1 SCH).
General Education Core: PHY 151 College Physics I (4 SCH) can be substituted for PHYS 181 General Physics with Lab (4 SCH).

**Sandhills Community College
to
Elizabeth City State University**

**Curriculum Guide – Major and Elective Requirements
for**

Aviation Science

Specialization/Concentration: Flight Education/Professional Pilot

ASSOCIATE OF APPLIED SCIENCE DEGREE: Career Pilot, SCC

BACHELOR OF SCIENCE DEGREE: Aviation Science – Flight Education, ECSU

ECSU Course	Title	Sem. Hrs.	Sandhills Equivalent Course	Sem. Hrs.
Major Core Requirements 37 Hrs.				
AVI 100	Introduction to Aviation	3	AER 113 History of Aviation and AER 211 ATC	2 1
AVI 122	Orientation Seminar for Aviation Science	1		
AVI 220	Air Transportation	3	AER 217 Air Transportation	3
AVI 230	Aviation Management	3		
AVI 250	Basic Aerodynamics	3	AER 210 Flight Dynamics	3
AVI 260	Aviation Human Factors & Safety	3	AER 218 Human Factors in Aviation and AER 211 ATC	2 1
AVI 270	ATC and the NAS	3	AER 110 Air Navigation	3
AVI 314	Aviation Meteorology	3	AER 111 Aviation Meteorology	3
AVI 315	Aviation Legislation & Ethics	3	AER 112 Aviation Laws and FARs and *AER 220 Airport Management	2 1
FLT 110	Private Pilot Ground	3	AER 150 Private Pilot Flight Theory	3
AVI 411	Transition to the Aviation Industry	3		
AVI 370	Aviation Research Methods and Stats	3		
AVI 460	Aviation Internship			
	<u>OR</u>	3		
AVI 465	Aviation Capstone			
Flight Education Concentration 31 Hrs.				
AVI 340	Corporate Flight Operations	3		
AVI 350	Advanced Aerodynamics	3		
AVI 420	Crew Resource Management	3		
AVI 275	Aircraft Systems I	3	AER 216 Engines and Systems	3
FLT 116L	Private Pilot Flight Lab	3	AER 151 Flight-Private Pilot and AER 171 Flight-Commercial Pilot	1 1
FLT 320	Instrument Ground	3	AER 160 Instrument Flight Theory	3
FLT 320L	Instrument Flight Lab	3	AER 161 Flight-Instrument Pilot	2

FLT 330	Commercial Ground	3	AER 170 Commercial Flight Theory	3
FLT 330L	Commercial Flight Lab	3	AER 171 Flight-Commercial Pilot	2 of 3
FLT 420 OR FLT 340	Flight Instructor Ground OR Multi-Engine Ground	2	AER 280 Instructor	3
FLT 425L OR FLT 345L	Flight Instructor Flight Lab OR Multi-Engine Flight Lab	2		
Electives (Technical Restrictive 6*) 17 Hrs.			**	
Note: ECSU courses with AVI, FLT, ATC, TECH, ENGT prefixes.				

General Education Core..... 35 Hrs.***

Major Core Requirements..... 37 Hrs.

Flight Education Concentration..... 31 Hrs.

Electives..... 17 Hrs.

Total Hours Required for Degree..... 120 Hrs.

*AER 220 is not required as part of the Sandhills Aviation Management and must be taken as an elective.

** Technical Restrictive Electives include any department courses not specifically included in the student's selected concentration.

Total Transfer Credit: 42 Credit Hours of the 78 required of the AVI Major/Flight Education Concentration. Depending on amount of GE transfer, students will be required to take a minimum of 36 credit hours for a B.S. in Aviation Science.

***ACA 115 Success & Study Skills (1 SCH) can be substituted for UNIV 110 Freshman Seminar (1 SCH).
General Education Core: PHY 151 College Physics I (4 SCH) can be substituted for PHYS 181 General Physics with Lab (4 SCH).

