

**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).