

PROGRAMS

PROFESSIONAL PILOT

The Aviation Management and Career Pilot Technology curriculum prepares individuals for a variety of aviation and aviation-related careers including the commercial airlines, general aviation, the aerospace industry, the military, unmanned aircraft systems industries, and state and federal aviation organizations.

Course work includes fundamentals of flight, aerodynamics, aircraft performance, meteorology, navigation, federal regulations, aviation management, unmanned aircraft systems, and instrument and commercial ground training, flight and simulator training, and entrepreneurship or business management training.

Graduates may earn a commercial pilot certificate with an instrument rating, specialize in aviation management or in unmanned air systems, and may find employment as commercial, corporate, and military pilots, fixed base operators and airport managers, as pilots or technicians in the unmanned aircraft systems industry, or as flight instructors, and flight dispatchers.

Students in the Aviation Management and Career Pilot Technology program will be required to fly simulator hours during the Air Navigation course and within the Flight-Private Pilot, -Instrument Pilot, -Commercial Pilot and -Certified Flight Instructor courses toward their FAA certification which are required to receive credit for flight courses. There will be a per hour fee for simulator use that will be set by the department.

The Professional Pilot track focuses on the skills and knowledge required to be a successful commercial pilot. Graduates may earn a commercial pilot certificate with an instrument rating.

Associate in Applied Science Degree Program

		Course Hours Per Week		Semester Hours
First Semester (Fall)		Class	Lab	Credit
ACA-115	Success & Study Skills	0	2	1
AER-110	Air Navigation	2	2	3
AER-111	Aviation Meteorology	3	0	3
AER-150	Private Pilot Flt Theory	2	2	3
ENG-111	Writing and Inquiry	3	0	3
MAT***	MAT-121 or MAT-171	2-3	2	3-4
Credit Hours		12-13	8	16-17
Second Semester (Spring)				
AER-112	Aviation Laws and FARs	2	0	2
AER-113	History of Aviation	2	0	2
AER-151	Flight-Private Pilot	0	3	1
AER-160	Instrument Flight Theory	2	2	3
AER-210	Flight Dynamics	3	0	3

		Course Hours Per Week		Semester Hours
BUS-137	Principles of Management	3	0	3
PHY-110	Conceptual Physics	3	0	3
PHY-110A	Conceptual Physics Lab	0	2	1
	Credit Hours	15	7	18

Third Semester (Summer)

ENG-112 or ENG-114	Writing/Research in the Disc or Prof Research & Reporting	3	0	3
***	Humanities/Fine Arts Elective	3	0	3
	Credit Hours	6	0	6

Fourth Semester (Fall)

AER-114	Aviation Management	3	0	3
AER-161	Flight-Instrument Pilot	0	6	2
AER-170	Commercial Flight Theory	3	0	3
AER-216	Engines & Systems	2	2	3
COM-120 or COM-231 or BUS-260	Intro Interpersonal Com or Public Speaking or Business Communication	3	0	3
***	Aviation Elective	0-3	0-3	1-3
	Credit Hours	11-14	8-11	15-17

Fifth Semester (Spring)

AER-171	Flight-Commercial Pilot	0	6	3
AER-215	Flight Safety	3	0	3
AER-217	Air Transportation	3	0	3
AER-280	Instructor Pilot Flt Theory	3	0	3
PSY-150	General Psychology	3	0	3
***	Aviation Elective	0-3	0-3	1-3
	Credit Hours	12-15	6-9	16-18
Total Required Minimum Semester Hours Credit				71

Aviation Electives:		Class	Lab	Credit
AER-115	Flight Simulator	1	3	2
AER-116	Private Pilot Flight Simulato	1	2	2
AER-119	Aircraft Structures	2	0	2
AER-211	Air Traffic Control	2	0	2
AER-212	Air Transport Pilot	3	0	3
AER-213	Avionics	2	0	2
AER-218	Human Factors in Aviation	2	0	2
AER-220	Airport Management	2	0	2

Programs

		Course Hours Per Week		Semester Hours
AER-281	Flight-CFI	0	3	1
AER-285	Flight-Multi-Engine	0	3	1

[View Catalog Archives](#)

**Associate Professor Keith Davies, Aviation Management and Professional Pilot
Coordinator**

167 Causey Hall

910.693.2076

daviesk@sandhills.edu