

AVIATION MANAGEMENT AND CAREER PILOT TECHNOLOGY A60180

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, and state and federal aviation organizations.

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

Graduates will hold a commercial pilot certificate with an instrument rating or specialize in aviation management. Graduates may find employment as commercial, corporate, and military pilots, fixed base operators and airport managers, flight instructors, and flight dispatchers.

Aviation Management and Career Pilot Technology Associate in Applied Science A60180 (Revised 2003*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 18 Hours				
A. English: 6 Hours				
ENG 111 Expository Writing	3	0	0	3
ENG 113 Literature-Based Research	3	0	0	3
or				
ENG 114 Professional Research & Reporting	3	0	0	3
B. Social/Behavioral Sciences: 3 Hours				
Selected from the list of social/behavioral sciences electives for the Associate in Applied Science degree appearing in the current catalog.				
C. Humanities/Fine Arts: 3 Hours				
Selected from the list of humanities/fine arts electives for the Associate in Applied Science degree appearing in the current catalog.				
D. Math/Natural Sciences: 6 Hours				
MAT 121 Algebra/Trigonometry I	2	2	0	3
MAT 122 Algebra/Trigonometry II	2	2	0	3
II. Major Courses: 54 Hours				
A. Core: 22 Hours				
AER 110 Air Navigation	2	2	0	3
AER 111 Aviation Meteorology	3	0	0	3
AER 112 Aviation Law & FARs	2	0	0	2
AER 113 History of Aviation	2	0	0	2
AER 114 Aviation Management	3	0	0	3
AER 150 Private Pilot Flt Theory	2	2	0	3
AER 160 Instrument Flight Theory	2	2	0	3
AER 170 Commercial Flight Theory	3	0	0	3

Aviation Management and Career Pilot Technology A60180 (Continued)

Title	Hours Class	Lab	Work Exp.	Credits
B. Other Major Courses: 32 Hours				
1. Required Courses: 28 Hours				
AER 210 Flight Dynamics	3	0	0	3
AER 212 Air Transport Pilot	3	0	0	3
AER 215 Flight Safety	3	0	0	3
AER 216 Engines & Systems	2	2	0	3
AER 217 Air Transportation	3	0	0	3
CIS110 Introduction to Computers	2	2	0	3
PHY131 Physics-Mechanics	3	2	0	4
2. At least 6 hours selected from the following:				
*Flight Option				
AER 151 Flight-Private Pilot	0	3	0	1
AER 161 Flight-Instrument Pilot	0	6	0	2
AER 171 Flight-Commercial Pilot	0	6	0	3
*Management Option				
BUS 137 Principles of Management	3	0	0	3
BUS 153 Human Resource Management	3	0	0	3
BUS 230 Small Business Management	3	0	0	3
3. 4 hours selected from the following:				
AER 115 Flight Simulator	0	2	0	1
AER 211 Air Traffic Control	2	0	0	2
AER 218 Human Factors in Aviation	2	0	0	2
AER 280 Instructor Pilot Flight Theory	3	0	0	3
AER 281 Flight-CFI	0	3	0	1
AER 285 Flight-Multi-Engine	0	3	0	1
CIS 120 Spreadsheet I	2	2	0	3
CIS 152 Database Concepts & Apps	2	2	0	3
COE 111-112 Co-op Work Experience I	0	0	10-20	1-2
COE 121-122 Co-op Work Experience II	0	0	10-20	1-2
COE 131-132 Co-op Work Experience III	0	0	10-20	1-2
 III. Other Required Courses: 1 Hours				
ACA 111 College Student Success	1	0	0	1
or				
ACA 115 Success & Study Skills	0	2	0	1
 Total Credits				 73

* Students who wish to pursue the AAS degree in Aviation Management and Career Pilot Technology (A60180) must complete AER 151, AER 161, and AER 171. Students seeking the AAS Degree in Aviation Management (A60180O) will take BUS 137, BUS 153 and BUS 230.

Aviation Management and Career Pilot Technology

Aviation Management - Diploma D60180D1

(Revised 2005*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 6 Hours				
English: 3 Hours				
ENG 111 Expository Writing	3	0	0	3
Math/Natural Sciences: 3 Hours				
MAT 121 Algebra/Trigonometry I	2	2	0	3
II. Major Courses: 34 Hours				
A. Core: 22 Hours				
AER 110 Air Navigation	2	2	0	3
AER 111 Aviation Meteorology	3	0	0	3
AER 112 Aviation Law and FARs	2	0	0	2
AER 113 History of Aviation	2	0	0	2
AER 114 Aviation Management	3	0	0	3
AER 150 Private Pilot Flt Theory	2	2	0	3
AER 160 Instrument Flight Theory	2	2	0	3
AER 170 Commercial Flight Theory	3	0	0	3
B. Other Major Courses: 12 Hours selected from the following (a maximum of 4 hours of COE is allowed):				
BUS 137 Principles of Management	3	0	0	3
BUS 153 Human Resource Management	3	0	0	3
BUS 230 Small Business Management	3	0	0	3
CIS 110 Introduction to Computers	2	2	0	3
COE 111-112 Co-op Work Experience I	0	0	10-20	1-2
COE 121-122 Co-op Work Experience II	0	0	10-20	1-2
COE 131-132 Co-op Work Experience III	0	0	10-20	1-2
III. Other Required Courses: 1 Hours				
ACA 111 College Student Success	1	0	0	1
or				
ACA 115 Success & Study Skills	0	2	0	1
Total Credits				41

Aviation Management and Career Pilot Technology

Career Pilot Technology

Diploma D60180D2

(Revised 2003*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 6 Hours				
A. English: 3 Hours				
ENG 111 Expository Writing	3	0	0	3
B. Math/Natural Sciences: 3 Hours				
MAT 121 Algebra/Trigonometry I	2	2	0	3
II. Major Courses: 34 Hours				
A. Core: 22 Hours				
AER 110 Air Navigation	2	2	0	3
AER 111 Aviation Meteorology	3	0	0	3
AER 112 Aviation Law and FARs	2	0	0	2
AER 113 History of Aviation	2	0	0	2
AER 114 Aviation Management	3	0	0	3
AER 150 Private Pilot Flt Theory	2	2	0	3
AER 160 Instrument Flight Theory	2	2	0	3
AER 170 Commercial Flight Theory	3	0	0	3
B. Other Major Courses: 12 Hours				
AER 151 Flight-Private Pilot	0	3	0	1
AER 161 Flight-Instrument Pilot	0	6	0	2
AER 171 Flight-Commercial Pilot	0	6	0	3
AER 215 Flight Safety	3	0	0	3
AER 216 Engines & Systems	2	2	0	3
III. Other Required Courses: 1 Hours				
ACA 111 College Student Success	1	0	0	1
or				
ACA 115 Success & Study Skills	0	2	0	1
Total Credits				41

Aviation Management and Career Pilot Technology
Private Pilot C60180C1
Certificate
(Revised 2001*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 0 Hours				
<i>Students are required to demonstrate competency in ENG 080, RED 080, and MAT 070 prior to receiving a certificate.</i>				
II. Major Courses: 13 Hours				
A. Core: 9 Hours				
AER 110 Air Navigation	2	2	0	3
AER 111 Aviation Meteorology	3	0	0	3
AER 150 Private Pilot Flt Theory	2	2	0	3
B. Other Major Courses: 4 Hours				
AER 151 Flight-Private Pilot	0	3	0	1
AER 215 Flight Safety	3	0	0	3
Total Credits				13

Aviation Management and Career Pilot Technology
Commercial Pilot C60180C2
Certificate
(Revised 2002*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 0 Hours				
<i>Students are required to demonstrate competency in ENG 080, RED 080, and MAT 070 prior to receiving a certificate.</i>				
II. Major Courses: 17 Hours				
A. Core: 8 Hours				
AER 111 Aviation Meteorology	3	0	0	3
AER 112 Aviation Law and FARs	2	0	0	2
AER 170 Commercial Flight Theory	3	0	0	3
B. Other Major Courses: 9 Hours				
AER 151 Flight-Private Pilot	0	3	0	1
AER 161 Flight-Instrument Pilot	0	6	0	2
AER 171 Flight-Commercial Pilot	0	6	0	3
AER 215 Flight Safety	3	0	0	3
Total Credits				17

Aviation Management and Career Pilot Technology

Instrument Pilot C60180C3

Certificate

(Revised 2002*03) Course and Hour Requirements

Title	Hours Class	Lab	Work Exp.	Credits
I. General Education Courses: 0 Hours				
<i>Students are required to demonstrate competency in ENG 080, RED 080, and MAT 070 prior to re-ceiving a certificate.</i>				
II. Major Courses: 14 Hours				
A. Core: 8 Hours				
AER 111 Aviation Meteorology	3	0	0	3
AER 112 Aviation Law and FARs	2	0	0	2
AER 160 Instrument Flight Theory	2	2	0	3
B. Other Major Courses: 6 Hours				
AER 151 Flight-Private Pilot	0	3	0	1
AER 161 Flight-Instrument Pilot	0	6	0	2
AER 215 Flight Safety	3	0	0	3
Total Credits				14

