

CERTIFICATE OF ACHIEVEMENT

Required Courses				Units
Course				
Fall				
General Maintenance Records	AMT	A150	(4)	
General Electricity	AMT	A151	(3)	
General Airfrm/Pwrplnt Fuel	AMT	A152	(2)	
General Mat/Processes/Weld	AMT	A153	(3)	
General Wgt/Bal/Math/Physics	AMT	A154	(3)	
Intersession				
General Blueprint Read/Draft	AMT	A155	(2)	
Airframe & Powerplant Instrument	AMT	A180	(2.5)	
Spring				
Airframe & Pwrplnt Elec	AMT	A160	(6)	
Airframe Sheet Mtl/Composite	AMT	A161	(5.5)	
Airframe Asmbly/Rig/ECS	AMT	A162	(3)	
Airframe Comm/Nvgation Sys	AMT	A181	(2)	
Summer				
Arfrm Hyd & Lndg Gear	AMT	A163	(4.5)	
Fall				
Powerplant Recip Engines	AMT	A170	(6)	
Powerplant fuel/Mtr/Exhst	AMT	A171	(4)	
Intersession				
Powerplant Ignition Sys	AMT	A174	(2.5)	
Spring				
Powerplant Prplr/Lube Sys	AMT	A172	(4)	
Powerplant Gas Turbine Eng	AMT	A173	(6)	
Total:				(63)

Program approved by the Federal Aviation Administration (FAA).

ASSOCIATE DEGREE

Complete the Certificate of Achievement and Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.

AVIONICS

The Avionics program is designed to prepare students for entry-level positions as installation, maintenance, and repair technicians for avionic equipment in private, corporate, and commercial aircraft.

The aircraft industry is quickly evolving its level of sophisticated navigational and communications systems to include microprocessor-based systems in all areas of the airframe. This requires a new competent work force capable in the state-of-the-art technology of the future.

This two-semester certificate program combines theory and laboratory practices with hands-on application in actual aircraft. Upon completion, the student will be ready for employment in this fast growing and exciting field.

CERTIFICATE OF SPECIALIZATION

Required Courses				Units
Course				
Fall				
General Electricity	AMT	A151	(3)	
Aircraft Avionics Circuits	AMT	A182	(4)	
Avionics Rules & Regulations	AMT	A188	(1.5)	
Intersession				
Airframe & Powerplant Instrument	AMT	A180	(2.5)	
Spring				
Airframe Comm/Nvgation Sys	AMT	A181	(2)	
Aircraft Avionics Systems	AMT	A184	(4)	
Total:				(17)

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HELICOPTER THEORY AND MAINTENANCE

This program provides students with the general knowledge of rotary wing development, technology, construction, and a general survey of the helicopter industry.

This program also provides a good understanding of the helicopter type aircraft to interested individuals, technicians, and pilots.

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Required Courses				Units
Course				
Fall				
Theory and Operations	AMT	A140	(3)	
Spring				
Helicopter Maintenance	AMT	A290	(4)	
Total:				(7)

AVIATION PILOT TRAINING

This program offers training areas such as corporate piloting, commuter airline piloting, aerial photography, and flight instruction. The curriculum also exposes students to space systems and employment opportunities in local aerospace corporations.

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Required Courses				Units
Course				
Fall				
Private Pilot Ground School	APT	A130	(5)	
Aviation-Meteorology	APT	A133	(3)	
Basic Air Transportation	APT	A180	(3)	
Spring				
Aviation-Navigation	APT	A132	(3)	
Instrument Ground School	APT	A134	(3)	

Fall

Commercial Pilot Ground School	APT	A139	(3)
Turbine Aircraft Systems	APT	A145	(3)

Total: (23)

Suggested electives:

Aerodynamics	APT	A138	(3)
Flight Instructor Ground School	APT	A140	(3)
Flight Simulator Course	APT	A141	(3)
Human Factors/Cockpit Mgmt	APT	A192	(1.5)

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AVIATION PILOT TRAINING

Professional Upgrade Certificates

The following Professional Upgrade Certificates are intended for the advanced student or the employed aerospace professional who desires advanced or recurrent training in a specific area. Certificates may be obtained from the Technology Division office by bringing in official records showing the successful completion of required courses.

Program Outcome

Students will develop the analytical and critical thinking skills necessary for completion of flight training and federally administered written examinations.

Turbine Transition

The Turbine Transition certificate covers turbine aircraft systems and cockpit resource management. Courses are intended to explore the topics that a student would cover in obtaining a type rating in a Cessna Citation or Boeing 737-200. The student will also become familiar with CRM and how it is utilized in the cockpits of commuter, corporate, and airline flight decks.

SKILL CERTIFICATE

Required Courses

Course			Units
Turbine Aircraft Systems	APT	A145	(3)
Human Factors & Cockpit Resource Management	APT	A192	(1.5)

Total: (4.5)

Private Pilot

The Private Pilot certificate covers current topics in the aerospace industry for the beginning aviation student or working professional.

CERTIFICATE OF SPECIALIZATION

Required Courses

Course			Units
Private Pilot Ground School	APT	A130	(5)
Aviation-Meteorology	APT	A133	(3)
Basic Air Transportation	APT	A180	(3)

Total: (11)



Instrument Pilot

The Instrument Pilot program covers current topics in the aerospace industry for the advanced instrument student.

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Required Courses			
Course			Units
Aviation-Navigation	APT	A132	(3)
Instrument Ground School	APT	A134	(3)
Flight Simulator Course	APT	A141	(3)
Total:			(9)

Commercial Pilot

The Commercial Pilot certificate covers current topics in the aerospace industry for the advanced aviation pilot student or working aviation professional.

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Required Courses			
Course			Units
Commercial Pilot Ground School	APT	A139	(3)
Flight Instructor Ground School	APT	A140	(3)
Turbine Aircraft Systems	APT	A145	(3)
Total:			(9)

BUSINESS

BUSINESS ADMINISTRATION

The Business Administration program is designed to provide the opportunity for the transfer business major to achieve an Associate in Arts or Associate in Science degree. Students are advised to check course transferability for the school to which they intend to transfer.

Program Outcomes

Upon successful completion of the Certificate of Achievement in Business Administration, graduates will be able to:

Function effectively in entry-level business positions or at a four-year college business program using the skills, principles, and tools they have acquired.

Effectively apply and utilize the business principles and techniques they have learned in a business environment or at a four-year college business program.

Demonstrate effective written and/or oral skills.

CERTIFICATE OF ACHIEVEMENT

Required Courses

Course			Units
Financial Accounting	ACCT	A101	(4)
Managerial Accounting	ACCT	A102	(4)
Intro to Business	BUS	A100	(3)
Business Law	BUS	A110	(3)
Business Communication	BUS	A139	(3)
Intro to Computer Info Systems	CIS	A111	(3)
Macroeconomics	ECON	A180	(3)
Microeconomics	ECON	A185	(3)
Intro to Statistics	MATH	A160	(3)
(Or)			
Honors Intro to Statistics	MATH	A160H	(3)
(Or)			
Statistics for Behavioral Sci	PSYC	A160	(3)
Calculus for Biol Mgmt & Soc. Sci	MATH	A157	(4)
(Or)			
Calculus 1	MATH	A180	(4)
(Or)			
Honors Calculus 1	MATH	A180H	(4)
(Or)			
Honors Calculus 1 and 2	MATH	A182H	(5)
Total:			(33-34)

Suggested electives:

Accounting Info Sys 1	ACCT	A110	(3)
Business Finance	BUS	A200	(3)
Logic & Critical Thinking	PHIL	A150	(3)

ENTREPRENEURSHIP

The Entrepreneurship program is designed to develop skills in starting, maintaining, and growing a small business. Courses emphasize feasibility analysis, legal considerations, financial management, marketing plans, and sales techniques.

Program Outcomes

Upon successful completion of the Certificate of Specialization (CS) in Entrepreneurship, graduates will be able to:

1. Function effectively in an entrepreneurial venture and in a supporting role to an entrepreneur.
2. Effectively apply and utilize the small business principles and techniques they have learned in a business environment or at a four-year college entrepreneur program.
3. Determine the viability of a small business venture.

CERTIFICATE OF SPECIALIZATION

Required Courses

Course			Units
Accounting for Small Business	ACCT	A100	(3)
Business Finance	BUS	A200	(3)
Intro to Entrepreneurship	BUS	A240	(3)
Intro to Marketing	MKTG	A100	(3)
Professional Selling	MKTG	A110	(3)
TOTAL:			(15)

ASSOCIATE DEGREES

Complete the Certificate of Achievement and either the Associate in Arts or Associate in Science Graduation Requirements as outlined in the Graduation Requirements section of the catalog.