



Course Descriptions

Course Numbering System

100 - 299 Lower Level Applicable to Associate in Applied Science Degrees

*Classes offer student faculty ratio of 15:1
Flight training ratio 1:1*

AVN 110 - 5 Credits
Private Pilot
Ground School

Provides the knowledge necessary to pass the FAA Private Pilot, Airplane knowledge examination. Knowledge gained from the course will be used in flight training. FAA Approved. No prerequisite.

AVN 120 - 5 Credits
Commercial Pilot
Ground School

Provides the knowledge necessary to pass the FAA Commercial Pilot, Airplane knowledge examination. Knowledge gained from the course will be used in flight training. FAA Approved. Prerequisite AVN 110 or instructor permission.

AVN 130 - 5 Credits
Instrument Pilot
Ground School

Provides the knowledge necessary to pass the FAA Instrument Pilot, Airplane knowledge examination. Knowledge gained from the course will be used in flight training. FAA Approved. Prerequisite AVN 110 or instructor permission.

AVN 140 - 5 Credits
Flight / Ground Instructor
Ground School

Provides the knowledge necessary to pass the FAA Fundamentals of Instruction and Flight Instructor knowledge exams. Upon completion the student will apply knowledge toward flight training. FAA Approved. Prerequisite AVN 120 or Instructor Permission.

AVN 150 - 5 Credits
Aviation Weather

Covers the theory of weather and weather phenomena. The interpretation of weather charts will be discussed in detail. This course explores all facets of weather including local weather patterns and high altitude weather. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.

AVN 151 - 5 Credits
Current Aviation Problems

Explore the rapidly changing field of aviation. A brief history of aviation in the United States will be discussed followed by an in-depth look into the deregulation and its impact on aviation. Students will solve current aviation problems using case studies. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.



This course provides an introduction to commercial pilot Air Taxi (charter) operations. Students gain general knowledge of 14 CFR Parts 119 and 135 as they pertain to air taxi certification. Prerequisite: Acceptable scores on the ASSET test, or advisor approval.

AVN 152 - 5 Credits
Air Taxi Operations

This course provides an overview of the development and application of Air Traffic Control (ATC) separation standards and procedures for the control of instrument flight in controlled airspace.

AVN 210 - 5 Credits
ATC & The Instrument Pilot

This course examines the various hazards associated with flying. Designed to assist pilots in developing sound countermeasures in reducing these hazards. Strong emphasis will be on Crew Resource Management (CRM) and training techniques. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.

AVN 211 - 5 Credits
Aviation Safety

A definitive study of the requirements necessary to manage a public airport. Airport & Airway systems will be introduced. Students will also study the government agencies, which are involved in monitoring airport activities. Additional topics to be explored: planning funding, growth management, and airport operations. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.

AVN 212 - 5 Credits
Airport Management

This course is an introduction to the analysis of aviation legislation and its effect on the industry. Topics covered include litigation, product liability, airport expansion, and special interest groups. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.

AVN 213 - 5 Credits
Aviation Law

This course is a survey of the pursuit of flight from; Kitty Hawk to modern times. Emphasis will be on heavier-than-air flight, beginning with the first flight made by the Wright brothers. Prerequisite: Acceptable scores on the ASSET test, ENGL 111, or advisor approval.

AVN 214 - 5 Credits
Aviation History

This course prepares the student for the FAA Private Pilot Practical Examination. Successful completion of this course will certificate the student to act as pilot in command of single engine aircraft carrying passengers or property but not for compensation or hire. FAA approved.

AVN 221 - 5 Credits
Private Pilot, Flight

AVN 222 - 5 Credits
Commercial Pilot, Flight

This course prepares the student for the FAA Commercial Pilot Practical Examination. Successful completion of the course will certificate the pilot to act as pilot in command of single engine aircraft and be compensated (or for hire). FAA approved. Prerequisite: AVN 221 or instructor permission.

AVN 223 - 5 Credits
Instrument Pilot, Flight

Students are prepared for the FAA Instrument Rating Practical Examination. Successful completion of the course will allow the pilot to act as pilot in an aircraft that is being flown by sole reference to instruments in actual or simulated instrument conditions. FAA Approved. Prerequisite: AVN 221 or instructor permission.

AVN 224 - 5 Credits
Flight Instructor, Flight

The student is prepared for the FAA Flight Instructor Practical Examination. Successful completion of this course will allow the Instrument rated Commercial pilot to teach both the flight and ground subjects appropriate to the instructor certificate attained. FAA Approved. Prerequisite: AVN 222/223 or instructor permission

AVN 240 - 5 Credits
Flight Instructor, Instrument

This course is designed to prepare the student for both the FAA Instrument Instructor written exam and the FAA Practical Exam. Upon successful completion of the course the pilot will be able to train students in the fundamentals of instrument flight. FAA Approved. Prerequisite: AVN 224

AVN 250 - 5 Credits
Multi-engine Rating

This course is designed to prepare the student for the FAA Multiengine Rating Practical Examination. Successful completion of this course will allow the pilot to act as pilot in command of a multiengine airplane. FAA Approved. Prerequisite: AVN 222 or instructor permission.

AVN 251 - 5 Credits
Flight Instructor, Multi-engine

This course is designed to enable the student to obtain an additional rating on the flight instructor certificate that allows them to instruct in a Multi-engine Airplane. FAA Approved. Prerequisite: AVN 224/250 or instructor permission.

AVN 260 - 5 Credits
Airline Transport Pilot, Ground

This course is designed to prepare the student for the FAA Airline Transport Pilot knowledge examination. FAA Approved. Prerequisite AVN 222.

AVN 261 - 5 Credits
Airline Transport Pilot, Flight

This course is designed to prepare the student for the FAA ATP Practical Examination. FAA Approved. Prerequisite: AVN 222.

AVN 270 - 5 Credits
Flight Engineer Ground School

This course provides the knowledge necessary to pass the FAA Flight Engineer Turbojet and Basic Examinations. Knowledge gained from the course will be used in flight training. Prerequisite: AVN 222.

This course covers basic arithmetic and algebraic fundamentals and their applications to typical business problems. Major economic changes that have influenced wages, interest rates, social security, taxes, income taxes, the stock and bond market and consumer prices are presented in a mathematical format. Prerequisite: Acceptable scores on the ASSET test, or advisor approval.

BA 107 - 5 Credits
Business Math

A study of basic laws of fractions, scientific notation exponents, radicals, inequalities, quadratic equations, complex numbers, elements of trigonometry, and the use of calculator functions in finding solutions. Prerequisite: Acceptable scores on the ASSET test, or advisor approval.

MA 111 - 5 Credits
Basic Algebra and Trigonometry

This course will teach the student principles of organizing, developing, and expressing technical information in written form. The course will examine rhetorical patterns common to technical subject matter. In addition, the course will allow students the opportunity to utilize these skills in the aviation field. Prerequisite: Acceptable scores on the ASSET test, or advisor approval.

ENGL 111 - 5 Credits
Technical Writing

This course will survey physics at a conceptual level, integrating the principles of physics into an aviation background as well as relating them to everyday life. Prerequisite: MA 111/BA 107, acceptable scores on the ASSET test, or advisor approval.

PHYS 101 - 5 Credits
Conceptual Physics

This course covers the scientific survey of human behavior; biological and social basis of behavior; cognition, motivation, emotion, perception, personality. In addition, this course will place the topics described into an application setting utilizing the individual as a model, especially as applied to the field of aviation.

PSYC 110 - 5 Credits
Introduction to Psychology

Students will explore communications theory, and practical applications of that theory. Verbal and non-verbal forms of communication and barriers to effective communications will also be covered. Prerequisite: ENGL 111, acceptable scores on the ASSET test, or advisor approval.

SPCH 101 - 5 Credits
Speech Communications