

# ATT: Aviation Technology: Theory

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## **ATT 1100 Private Pilot Ground School**

College of Business, Department of Commerce

3 sh (may not be repeated for credit)

This course prepares the learner for the private pilot knowledge training test administered by the Federal Aviation Administration (FAR 141 Appendix B). Topics include aviation decision making and risk management, aerodynamics, aircraft systems, federal aviation regulations (FAR) parts 61 and 91, NTSB 430, aviation weather, navigation and cross-country procedures, weight and balance, safety, and aircraft performance. All elements required by the FAR are discussed. Texts include FAA handbooks, including the Pilot's Handbook of Aeronautical Knowledge, the Airplane Flying Handbook, the Aeronautical Information Manual, and appropriate FAA Advisory Circulars. Upon course completion the student must successfully take the FAA Private Pilot Knowledge Test.

## **ATT 1110 Commercial Pilot Ground School**

College of Business, Department of Commerce

3 sh (may not be repeated for credit)

This course prepares the learner for the commercial pilot knowledge test administered by the Federal Aviation Administration (FAR 141 Appendix D). Topics include aviation decision making and risk management, aerodynamics, aircraft systems, federal aviation regulations (FAR) parts 61 and 91, NTSB 430, advanced aviation weather, navigation and cross-country procedures. Advanced weight and balance calculations, safety management systems, and aircraft performance. All elements required by the FARs are covered. Texts include FAA handbooks, including the Pilot's Handbook of Aeronautical Knowledge, the Airplane Flying Handbook, the Aeronautical Information Manual, and appropriate FAA Advisory Circulars. Upon completion the student must successfully take the FAA Commercial Pilot Knowledge Test.

## **ATT 1120 Instrument Pilot Ground School**

College of Business, Department of Commerce

3 sh (may not be repeated for credit)

This course prepares the learner for the instrument pilot knowledge test administered by the Federal Aviation Administration (FAR 141 Appendix C). Topics include aviation decision making and risk management, aircraft navigation and instrument systems, federal aviation regulations (FAR) parts 61 and 91, NTSB 430, advanced aviation weather and navigation procedures. Advanced aircraft navigation systems including global positioning systems and electronic flight bag (EFB) use are discussed. All elements required by the FAR covered. Texts include FAA handbooks, including the Pilot's Handbook of Aeronautical Knowledge, the Airplane Flying Handbook, the Instrument Flying Handbook, the Instrument Procedures Handbook, the Aeronautical Information Manual, and appropriate FAA Advisory Circulars.

## **ATT 3134 Certified Flight Instructor: Ground**

College of Business, Department of Commerce

3 sh (may not be repeated for credit)

This course prepares the learner for the flight instructor pilot knowledge test administered by the Federal Aviation Administration (FAR141 Appendix F). Topics include aviation decision making and risk management, aerodynamics, aircraft systems, federal aviation regulations (FAR) parts 61 and 91, NTSB 430, aviation weather, navigation and cross-country procedures, weight and balance, safety, aircraft performance, and fundamentals of instruction and learning. All elements required by the FAR are covered. Texts include the Pilot's Handbook of Aeronautical Knowledge, the Airplane Flying Handbook, the Aviation Instructor's Handbook, the Aeronautical Information Manual, and appropriate FAA Advisory Circulars. Upon completion the student must successfully take the FAA Certified Flight Instructor Knowledge Test. A Commercial Pilot Certificate is required to enroll in this course.

## **ATT 3811 Air Traffic Control Systems**

College of Business, Department of Commerce

3 sh (may not be repeated for credit)

This course introduces learners to the various aspects of Air Traffic Control (ATC) systems. Topics discussed include a systems-analysis approach to capacity and safety, surveillance, including the National Airspace System and Automated Radar Terminal Systems, navigation subsystem technology, aircraft guidance and control, communications, collision avoidance systems and sequencing and spacing in terminal areas including runway incursion. Future directions and development and have a critical discussion of past proposals and of probable future problem areas.