

Aviation Courses

AVN 150 Introduction to Aviation. (3) A. An introductory course specifically designed for students to obtain a broad understanding of the aviation world including varying aspects of space exploration. Includes a study of aviation history and the general aviation environment.

AVN 192 Professional Aeronautics. (5) A. An introduction to flying designed to provide all aeronautical information necessary to successfully complete the FAA written examination for private pilots. An integrated lecture and laboratory effort in which simulators and actual aircraft may be used.

AVN 194A Private Pilot. (1) A. Prerequisite or Corequisite: AVN 192 with a “C” or better, and an overall GPA of 2.0. This course consists of half the dual and solo flight hours and experiences required for the private pilot certification with the Federal Aviation Administration.

AVN 205A Intermediate Supervised Flight I. (1) A. Prerequisites: department approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

AVN 206A Intermediate Supervised Flight II. (1) A. Prerequisites: department approval and an overall GPA of 2.0. This course is designed to permit students holding the private pilot license to acquire additional supervised flight time. This course includes approximately 24 flight hours.

AVN 220 Instrument Pilot: Ground. (3) A. Prerequisites: department approval and an overall GPA of 2.0. A course designed to permit the student to gain instrument flight training.

AVN 220A Instrument Pilot: Flight. (1) A. Prerequisites: AVN 192, 192A/193A with a “C” or better, or equivalent inclusive of a private pilot license, AVN 220 with a “C” or better, and a minimum of 40 hours of cross-country flight time as pilot-in-command; or coordinator approval. A laboratory course integrated with AVN 220.

AVN 229A Advanced Supervised Flight I. (1) A. Prerequisites: private pilot license, instrument rating, and an overall GPA of 2.0. This course is designed to permit students flight training and experience for FAA Commercial Pilot License.

AVN 230A Advanced Supervised Flight II. (1) A. Prerequisites: department approval and an overall GPA of 2.0. This course is designed to provide students flight training and experience for FAA Commercial Pilot License.

AVN 300 Commercial Pilot: Ground. (2) A. Prerequisites: AVN 192, 194A, 220, and 220A with a “C” or better in each course or equivalents. The course consists of instruction emphasizing airplane operating procedures, proper airplane flight control, air and ground safety, traffic control procedures, commercial flight maneuvers, national airspace systems, terminal and en route charts, navigation procedures and communications.

AVN 300A Commercial Pilot: Flight. (1) A. Prerequisites: departmental approval and an overall GPA of 2.0. The course consists of all or part of the dual and solo flight hours required for FAA commercial pilot certification.

AVN 310 Flight Training Analysis I. (4) A. Prerequisite: AVN 300 with a grade of “C” or better. A study of basic information regarding fundamentals of teaching and learning (including effective teaching methods), aerodynamics helpful to flight instruction, and flight instructor responsibilities.

AVN 310A Flight Training Techniques I. (1) A. Prerequisites: departmental approval and an overall GPA of 2.0. Flight training to prepare students for FAA examinations.

AVN 315 Human Factors in Flight Safety. (3) I, II. A. presentation and analysis of factors and procedures relating to aviation safety inclusive of techniques for accident prevention, development of safety programs, procedures used in accident investigation, and the human factor.

AVN 320 Flight Training Analysis II. (2) A. Prerequisite: appropriate flight credentials. A study of aeronautical information and instructional background necessary for becoming instrument flight instructors. Included in the course is teaching methodology, instrument interpretations, and instrument flight procedures.

AVN 320A Flight Training Techniques II. (1) A. Prerequisites: departmental approval and an overall GPA of 2.0. Flight training to prepare students for FAA examinations.

AVN 325 Aircraft Systems. (3) I, II. A. A study of electrical, mechanical and hydraulic systems, design and performance standards, capabilities and limitations, and conformance to FAA specifications.

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AVN 335 Weather Reporting/Analysis. (3) I, II. A comprehensive analysis of weather conditions and patterns as they apply to flight.

AVN 340 Airport Management. (3) I, II. Prerequisite: AVN 150 or 192 with a "C" or better. A study of guidelines for aviation management and administrative functions including problems, trends, and planning regarding operation of airports.

AVN 349 Applied Learning in Aviation. (1-8) A. Prerequisite: coordinator approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

AVN 349 A-N Cooperative Study: Aviation. (1-8) A. Prerequisite: coordinator approval. Work under faculty and field supervisors in placements related to academic studies. One to eight hours credit per semester or summer. A minimum of 80 hours work required for each academic credit.

AVN 350 Air Transportation. (3) I, II. A survey of the historical development of the air transportation system covering facilities, impact of regulations, problems encountered, and future requirements.

AVN 360 Problems in Aviation Administration. (3) I, II. Designed for utilization of aviation industry case studies to introduce the techniques, methods, and procedures for problem solving.

AVN 365 Airline Reservation Systems. (3) A. This course uses lecture and computer simulation to develop student proficiency in operation of reservation systems used by major airlines. The systems are used for passenger booking, hotel reservation, automobile rentals and packaged tours.

AVN 370 Techniques: Aviation Supervisors. (3) I, II. A study of effective personnel management theory through application to practical situations in the aviation industry.

AVN 390 Aviation Administration Decision Making. (3) I, II. A study of decision theory and its application to aviation administration decision-making and problem solving processes.

AVN 400 Multi-Engine Pilot: Ground. (1) A. Prerequisite: appropriate flight credentials. The course is designed

to provide appropriate aeronautical knowledge about multi-engine aircraft to facilitate successful completion of the multi-engine flight component.

AVN 400A Multi-Engine Pilot: Flight (1) A. Prerequisites: departmental approval and an overall GPA of 2.0. A one hour laboratory course integrated with AVN 400 consisting of the dual and solo flight hours required for FAA certification.

AVN 401 Airline Management. (3) A. Prerequisites: MGT 301 with a "C" or better. Acquaint student with the development, administrative and operational factors peculiar to commuter aviation. Emphasis is placed on proper market analysis, financial matters, the company plan, aircraft selection, aircraft acquisition, route structure, timetable and pertinent regulatory requirements.

AVN 402 Corporate and Business Aviation. (3) A. The study of the operation of a corporate flight department. Course includes the value of management mobility, aircraft and equipment evaluation, maintenance, flight operations, administration and fiscal considerations.

AVN 410 Air Traffic Control. (3) I, II. A study of the national air traffic control system with emphasis on basic air traffic control procedures; the role of centers, approach control, towers, and flight service centers; communications; navigation procedures, radar operations, facilities.

AVN 420 Flight Training Analysis III. (2) A. Prerequisite: appropriate flight credentials. Principles and methodology of teaching multi-engine flight and includes ground instruction required by the FAA in preparation for a flight instructor multi-engine rating.

AVN 420A Flight Training Techniques III. (1) A. Prerequisites: appropriate flight credentials, AVN 420 with a grade of "C" or better, an overall GPA of 2.0, or coordinator approval. Flight preparation the student for the FAA CFI Multi-Engine flight test.

AVN 425 Advanced Aerodynamics. (3) A. Prerequisite: PHY 131. Advanced theories of flight and flight factors as well as advanced principles of performance.

AVN 435 Turbine Aircraft Systems. (2) A. Prerequisite: AVN 325 with a "C" or better or instructor approval. A study of electrical, mechanical and hydraulic systems as they relate to turbine engine aircraft.

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AVN 460 Aviation Legislation. (3) I, II. Prerequisite: AVN 150 or AVN 192 with a “C” or better; or coordinator approval. A study of civil law as it pertains to aviation and includes the historic development of United States and international aviation law while surveying governmental responsibility for aviation accidents.

AVN 470 National Air Space System. (3) A. An overview of the National Air Space System with emphasis on problems of implementation, safety considerations, and social/economic impact.

AVN 495 Internship. (1-3) A. Prerequisite: departmental approval. Students will work under departmental supervision in a private or public agency engaged in aviation activities.

AVN 498 Independent Study. (1-3) A. Prerequisite: AVN major with senior standing. Student must have the independent study proposal form approved by faculty supervisor and program coordinator prior to enrollment. May be retaken to a maximum of six hours.