Aviation/Aerospace Science (The AVIA prefix will no longer be used as of Spring Semester 2010)

You can view the group leaders at the bottom of the page. If you are interested in printing this page, please note that it is best to print in landscape mode.

Prefix	Number	Gerta	Course Title	WSC	UND
AVIT	100		Aviation Orientation	1	1
AVIT	102		Introduction to Aviation	5	5
AVIT	221		Basic Attitude Instrument Flying	3	3
AVIT	222		IFR Regulations and Procedures	3	3
AVIT	223/323		Aerodynamics - Airplanes	3	3
AVIT	224/324		Aircraft Systems	3	3

AVIT 100 Aviation Orientation
This course is required for all aviation majors. Its purpose is to prepare new students for their university and professional careers by discussing students' responsibilities and options concerning the aviation industry. Aviation career options will be explored. Academic and airport requirements and procedures will be covered.

AVIT 102 Introduction to Aviation
The course will develop the student's knowledge and skills that are needed to safely exercise the privileges and responsibilities of a Private Pilot. Course content includes instruction in aerodynamics, aircraft systems, FAA regulations, U.S. Airspace System, weight and balance, aircraft performance, aviation weather, flight publications, radio navigation , cross country planning and navigation, basic flight physiology, and flight safety. The student must complete the appropriate flight lessons to satisfactorily complete the course.

AVIT 221 Basic Attitude Instrument Flying
This course will include an in-depth study of pitot/static and gyro instruments and basic attitude instrument flying. In addition, the operation, interpretation and practical use of VOR, ADF, DME, GPS, RNAV, RMI, HSI, and Integrated Flight Control systems will be studied. The student must complete the appropriate flight lessons to satisfactorily complete the course. Prerequisite: AVIT 102.

AVIT 222 IFR Regulations and Procedures
This course will provide the student with a detailed study of the regulations, procedures, and publications necessary for operating IFR in the national airspace system. Terminal and enroute procedures will be studied in detail. The student must complete the appropriate flight lessons to satisfactorily complete the course.

AVIT 223/323 Aerodynamics - Airplanes
This course will provide the student a study of the physical principles of airplane aerodynamics, thereby fostering an appreciation of the factors affecting aircraft performance, stability and control, and special flight conditions often experienced by commercial pilots of fixed-wing aircraft. rerequisites and corequisite required.

AVIT 224/324 Aircraft Systems
This course provides an in-depth study of reciprocating engine, propeller, electrical, environmental, hydraulic, pneumatic, fuel, ignition, lubrication, and pressurization systems. Prerequisite: AVIT 222; corequisite: AVIT 323.

The following individuals are leaders for this discipline. Those marked with an asterisk (*) are chairs.

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