Courses

AVMF 2141 FLIGHT ORIENTATION (1) LAB. 2. Basic flight experience for non-pilots to familiarize aviation majors, engineers, teachers, and other students desiring a limited exposure to flight. Includes ground discussion and airplane flight time. Special fee.


AVMF 2171 PRIVATE PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2150 or Departmental approval. Dual and solo flight instruction and discussion to prepare for first solo in a single-engine airplane. Special fee.

AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2171 or Departmental approval. Continuation of AVMF 2171 to prepare for FAA Private Pilot Certification. Special fee. Requires at least a valid FAA 3rd Class Medical certificate and Student Pilot certificate.

AVMF 2230 PRINCIPLES OF INSTRUMENT FLIGHT (3) LEC. 3. Pr. AVMF 2181. Flight instruments, FAA regulations, air traffic procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating Airplane Aeronautical Knowledge Test (IRA).

AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2230. Flight instruments, FAA regulations, air traffic control procedures, radio navigation, and aircraft operation and performance as applied to instrument flying. Preparation for the FAA Instrument Rating – Airplane Practical Test. Special fees. Requires at least a valid FAA 3rd Class Medical certificate.

AVMF 2250 PRINCIPLES OF COMMERCIAL FLIGHT (3) LEC. 3. Pr. AVMF 2251. FAA regulations, high altitude operations, aerodynamics, commercial flight maneuvers, environmental, ice control, retractable landing gear, and aircraft performance as applied to commercial flying. Preparation for the FAA Commercial Pilot Aeronautical Knowledge Test (CAX).

AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2241. Continuation of AVMF 2241 in preparation for the FAA Instrument Rating – Airplane Practical Test. Special fee. Requires at least a valid FAA 3rd Class Medical certificate.

AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB. 6. Pr. AVMF 2251. Flight training toward FAA Commercial Pilot Certification. Special fee. Requires at least a valid FAA 3rd Class Medical certificate.

AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB. 6. Pr. AVMF 2261. Continuation of AVMF 2261 towards FAA Commercial Pilot Certification. Emphasis on advanced commercial maneuvers, and cross country flying. Special fee. Requires at least a valid FAA 3rd Class Medical certificate.

AVMF 4271 MULTI-ENGINE FLIGHT TRAINING (2) LAB. 2. Pr. AVMF 2271. Specialized instruction in methods and techniques of multi-engine airplane operations. Sufficient ground and flight instruction is given towards an FAA Multi-Engine Airplane Rating. Special Fees. Requires at least a valid FAA 3rd Class Medical certificate.

AVMF 4280 PRINCIPLES OF FLIGHT INSTRUCTION (3) LEC. 3. Principles of teaching as applied to instructing, analyzing, and evaluating flight students. Emphasis is on preparation for the FAA Fundamentals of Instructing (FOI) and the Flight Instructor-Airplane (FIA) Aeronautical Knowledge Tests.


AVMF 4320 PRINCIPLES OF PROFESSIONAL FLIGHT (3) LEC. 3. Pr. AVMF 2230. Multi-engine transport aircraft systems and operating procedures (normal, abnormal, and emergency). Includes hydraulic, electric, pneumatic, air conditioning and pressurization, auxiliary power unit (APU), landing gear, and flight control systems. Special fee.

AVMF 4331 TRANSPORT AIRCRAFT FLIGHT TRAINING (2) LAB. 6. Includes instrument and night instruction, emergency procedures and actual air transportation operations. Special fees.


AVMF 4400 APPLIED AERODYNAMICS AND PROPULSION SYSTEMS (3) LEC. 3. Pr. PHYS 1000 or PHYS 1007. Private Pilot Certificate, or Departmental approval. The principles of aerodynamics and propulsion and how aerodynamic factors affecting lift, thrust, drag, in-air performance, stability and flight control.