

# Flight Education - AVMF

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## Courses

**AVMF 2141 FLIGHT ORIENTATION (1) LAB.** 1. 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 aircraft time. Special fee.

**AVMF 2150 PRINCIPLES OF PRIVATE FLIGHT (3) LEC.** 3. General introduction and preparation for the FAA Private Pilot Knowledge Test. Theory of flight, aircraft and engine performance, regulations, meteorology, navigation, airspace utilization, and aviation physiology. Special Fee.

**AVMF 2171 PRIVATE PILOT FLIGHT TRAINING I (2) LAB.** 2. Pr. AVMF 2150. Dual and solo flight instruction and discussion to prepare for FAA Private Pilot Certificate. Special fees. Requires a valid FAA 1st Class Medical Certificate. Departmental approval required.

**AVMF 2181 PRIVATE PILOT FLIGHT TRAINING II (2) LAB.** 2. Pr. AVMF 2171. Departmental approval. Continuation of AVMF 2171 to prepare for FAA Private Pilot Certification. Special fees. Requires a valid FAA 1st 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). Special Fee.

**AVMF 2241 INSTRUMENT FLIGHT TRAINING I (2) LAB.** 2. Pr. AVMF 2230. 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 Practical Test. Special fees. Requires a valid FAA 1st Class Medical Certificate. Departmental approval required.

**AVMF 2251 INSTRUMENT FLIGHT TRAINING II (2) LAB.** 2. Pr. AVMF 2241. Departmental approval. Continuation of AVMF 2241 in preparation for the FAA Instrument Rating - Airplane Practical Test. Special fees. Requires a valid FAA 1st Class Medical certificate.

**AVMF 2260 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). Special Fee.

**AVMF 2261 COMMERCIAL PILOT FLIGHT TRAINING I (2) LAB.** 2. Pr. AVMF 2251. Flight training toward FAA Commercial Pilot Certification. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

**AVMF 2271 COMMERCIAL PILOT FLIGHT TRAINING II (2) LAB.** 2. Pr. AVMF 2261. Continuation of AVMF 2261 towards FAA Commercial Pilot Certification. Emphasis on advanced commercial maneuvers, and cross country flying. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

**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 a valid FAA 1st Class Medical certificate. Departmental approval required.

**AVMF 4280 PRINCIPLES OF FLIGHT INSTRUCTION (3) LEC.** 3. Pr. AVMF 4271. 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. Special Fee.

**AVMF 4281 FLIGHT INSTRUCTION TRAINING (3) LAB.** 3. Discussion, instruction and arranged practice in flight instruction in preparation for the FAA Flight Instructor Certification with an Airplane Single-Engine rating. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

**AVMF 4310 TRANSPORT CATEGORY AIRCRAFT SYSTEMS (3) LEC.** 3. Pr. P/C AVMF 2260. Study of design and operation of the major systems in transport category aircraft, using the Boeing 737 as a model. Systems include turbine engine, fuel, lubrication, electrical, hydraulic, pneumatic, pressurization, environmental control, and flight management. Also examines the use of normal checklists, the Quick Reference Handbook (QRH), Minimum Equipment List (MEL), and Configuration Deviation List (CDL). School of Aviation, Junior or Senior, or Departmental approval required.

**AVMF 4320 AIRLINE TRANSPORT CATEGORY SYSTEMS AND PROCEDURES (4)** LEC. 3. LAB. 1. Pr. AVMF 2250 or AVMF 2260. Airbus A320 systems and operational procedures (normal, abnormal, and emergency). Part 121 carrier flight and crew management. Special fee.

**AVMF 4331 TRANSPORT AIRCRAFT FLIGHT TRAINING (2)** LAB. 2. Departmental approval. Includes instrument and night instruction, emergency procedures and actual air transportation operations. Preparation for the Airline Transport Pilot Certification, if otherwise qualified. Special fees. Requires a valid FAA 1st Class Medical Certificate.

**AVMF 4351 INSTRUMENT FLIGHT INSTRUCTOR TRAINING (2)** LAB. 2. Discussion, instruction, and arranged practice in instrument flight instruction in preparation for FAA Instrument-Airplane Flight Instructor Certification. Special fees. Requires a valid FAA 1st Class Medical certificate. Departmental approval required.

**AVMF 4371 MULTI-ENGINE FLIGHT INSTRUCTOR TRAINING (2)** LAB. 2. Departmental approval. Discussion, instruction and arranged practice in multi-engine flight instruction in preparation for FAA Multi-Engine Airplane Flight Instructor Certification. Special fees. Requires a valid FAA 1st Class Medical certificate and Flight Instructor Certificate (ASE).

**AVMF 4400 APPLIED AERODYNAMICS AND PROPULSION SYSTEMS (3)** LEC. 3. Pr. PHYS 1400 or PHYS 1000. Private Pilot Certificate or departmental approval. The principles of aerodynamics and propulsion and how aerodynamic factors affect lift, thrust, drag, in-air performance, stability, and flight control.