

Course discipline/number/title: AVIA 2253: Multi-Engine Flight Lab**A. CATALOG DESCRIPTION****1. Credits: 2****2. Hours/Week: 4****3. Prerequisites (Course discipline/number):** AVIA 2200, AVIA 2250, AVIA 2251**4. Other requirements:** Requires current medical certificate, airport security clearance, completion of prerequisite program courses with a C or better and program approval to register.**5. MnTC Goals (if any):** NA

B. COURSE DESCRIPTION: This course will provide the knowledge and skill necessary to earn a Federal Aviation Administration (FAA) Multi-Engine Commercial Rating. This lab includes instruction in multi-engine operation, 12 hours of one-on-one ground instruction and 15 hours of flight instruction in an airplane or flight training device with an FAA Certified Flight Instructor or solo to gain the level of proficiency required to pass the FAA Multi-Engine Commercial practical test. Instruction includes requirements as listed in the Federal Aviation Regulations. Requires current medical certificate, airport security clearance, completion of prerequisite program courses with a C or better and program approval to register.

C. DATE LAST REVISED (Month, year): November, 2022

D. OUTLINE OF MAJOR CONTENT AREAS:

1. Complex and Multi-engine airplane operations
2. Climb Performance on One Engine
3. Engine Failure on Take-off
4. Managing Engine Failure Aloft
5. Nursing a Sick Engine
6. Returning to Field on One Engine
7. Single-Engine Instrument Approach
8. Multi-Engine Instrument Flying
9. Multi-Engine Cross-Country Flying

E. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Demonstrate proficiency in all Multi-Engine areas defined in the Commercial Airman Certification Standards.
2. Meet or exceed the Federal Aviation Administration standards for aeronautical knowledge, aeronautical experience, and flight proficiency for passing the FAA Flight Instructor practical test.

F. LEARNING OUTCOMES (MNTC): NA

G. METHODS FOR EVALUATION OF STUDENT LEARNING: Methods may include but are not limited to:

1. Demonstrations
2. Exams

H. RCTC CORE OUTCOME(S). This course contributes to meeting the following RCTC Core Outcome(s):
Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.

I. SPECIAL INFORMATION (if any): None