AVMT 235
Instrument Pilot Rating - Helicopter II
2 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 235 – Instrument Pilot Rating - Helicopter II: provides the final phase of flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Instrument Pilot Rating, Helicopter category. Topics include instrument departure procedures, en route navigation, instrument approach procedures, aeronautical decision-making, emergency procedures, crew and single pilot resource management, and night operations. A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 234 and approval of the Aviation Program Director

Overall Course Objectives

Upon completion of this course, students will be able to:

1. perform precise and controlled helicopter flight solely by reference to instruments;
2. prepare an Instrument Flight Rules (IFR) cross country navigation log and revise in flight;
3. perform cross-country navigation flights solely by reference to instruments;
4. execute instrument departure and arrival procedures;
5. describe IFR lost-communications procedures;
6. perform non-precision and precision instrument approaches;
7. execute night flight operations solely by reference to instruments;
8. employ proper Crew and Single Pilot Resource Management during IFR operations;
9. perform emergency procedures during simulated flight emergencies; and
10. demonstrate the level of flight proficiency required for the FAA Instrument Rating.

Major Topics

I. FAA regulations pertaining to flight under Instrument Flight Rules (IFR)
II. Flight planning
III. Weather evaluation for flight under IFR
IV. Instrument departure and arrival procedures
V. IFR en route navigation and holding patterns
VI. Non-precision and precision instrument approach procedures
VII. Clearances and pilot-controller phraseology
VIII. Emergency procedures and equipment malfunctions
IX. Aeronautical Decision Making, Crew and Single Pilot Resource Management
X. Helicopter Pilot Instrument Rating responsibilities and limitations

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 2 skills-based evaluations
- comprehensive final exam
- 2 writing assignments such as flight plans, special topic papers, current events reports, article or textbook summaries, research or case study analysis papers, and personal journals

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

This course is a required course in the Associate of Applied Science Professional Pilot Helicopter Aviation Technology Degree Program and an elective course in the Associate of Applied Science Professional Pilot Unmanned Aircraft Systems Aviation Technology Degree program.

Date Revised: 10/29/2019