

AVMT 240

Commercial Pilot Certification - Helicopter II

2 Credits

Community College of Baltimore County Common Course Outline

Description

AVMT 240 – Commercial Pilot Certification - Helicopter II: provides the final phase of flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Helicopter category. Topics include advanced ground-reference maneuvers, specialty takeoffs and landings, long-range cross-country flights, emergency procedures, Aeronautical Decision-Making (ADM), Crew Resource Management (CRM), and Single-Pilot Resource Management (SRM). A valid FAA Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 239 or approval of the Aviation Program Director

Overall Course Objectives

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

1. perform long range flight planning and associated risk assessment;
2. execute long-range cross-country flights using pilotage, radio, and dead-reckoning navigation;
3. evaluate weather in-flight for potential hazards and take appropriate actions to mitigate risk;
4. perform helicopter specialty takeoffs and landings to commercial pilot standards;
5. perform hover, hover-taxi, and air-taxi maneuvers to commercial pilot standards;
6. describe aircraft lost communications procedures;
7. employ proper actions and responses to emergency situations and equipment malfunctions;
8. perform helicopter operations near helicopter weight-and-balance and performance limits;
9. employ sound ADM, CRM, and SRM during all phases of flight operations; and
10. demonstrate the level of flight proficiency required for the FAA Commercial Pilot Certificate.

Major Topics

- I. FAA regulations related to commercial helicopter flight operations
- II. Long-range flight planning, risk assessment, and flight procedures
- III. Advanced navigation systems for instrument flight
- IV. Helicopter performance, loading, and weight and balance
- V. Helicopter maximum-performance takeoffs and maneuvers
- VI. Inflight emergency procedures
- VII. Preflight and in-flight weather evaluation
- VIII. Advanced helicopter applications
- IX. Human factors, ADM, CRM, and SRM
- X. Commercial Pilot professionalism

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

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 required course in the Associate of Applied Science Professional Pilot Helicopter Aviation Technology degree program.

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