AVMT 135
Private Pilot Certification - Helicopter II
2 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 135 – Private Pilot Certification - Helicopter II: provides the final phase of flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Private Pilot Certificate, Helicopter category. Topics include maximum-performance and specialty takeoffs, climbs and approaches, confined area and pinnacle operations, cross-country flights, emergency procedures, and night operations. A valid FAA Second Class Medical Certificate is required. This course has additional lab fees.

Pre-requisites: AVMT 134 and approval of the Aviation Program Director

Overall Course Objectives

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

1. execute steep approaches and shallow approaches to running landings;
2. perform running and rolling takeoffs and maximum-performance takeoffs and climbs;
3. land and take off from confined and pinnacle areas;
4. perform rapid deceleration and go-around maneuvers;
5. perform takeoffs from and landings to sloped surfaces;
6. perform solo cross-country flights;
7. execute night flight operations;
8. demonstrate aeronautical decision-making and Single Pilot Resource Management;
9. perform emergency procedures during simulated scenarios; and
10. demonstrate flight proficiency required for the FAA Private Pilot Certificate.

Major Topics

I. Aerodynamics of rotary wing flight
II. The National Airspace System
III. Helicopter airframe, engine, and avionics systems
IV. FAA regulations
V. Helicopter performance considerations and maximum-performance maneuvers
VI. Helicopter emergency procedures
VII. Navigation and cross-country procedures
VIII. Helicopter night flight procedures
IX. Aeronautical Decision Making (ADM) and Single-Pilot Resource Management (SRM)
X. Private Pilot - Helicopter responsibilities and limitations

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 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.

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