

## **AVMT 134**

### **Private Pilot Certification - Helicopter I**

2 Credits

## Community College of Baltimore County Common Course Outline

### Description

**AVMT 134 – Private Pilot Certification - Helicopter I:** provides the initial phase of flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Private Pilot Certificate, Helicopter category. Topics include preflight procedures, airport and heliport operations, hovering and hover-taxiing, air taxi procedures, normal takeoffs and landings, straight-ahead and 180-degree autorotations, flight safety, and post-flight procedures. A valid FAA Second Class Medical Certificate is required. This course has additional lab fees.

**Co-requisite:** AVMT 131 and approval of the Aviation Program Director

### Overall Course Objectives

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

1. perform a helicopter pre-flight inspection and start-up procedure;
2. manage aerodynamic and inertial forces while inflight to properly control the helicopter;
3. employ correct radio communications procedures and phraseology;
4. perform hover and hover-taxi;
5. execute air taxi procedures;
6. execute normal takeoffs and landings;
7. demonstrate straight-ahead autorotations to a power recovery;
8. perform 180-degree autorotations to a power recovery;
9. execute solo flight in the training helicopter; and
10. perform a helicopter post-flight inspection and shutdown procedure.

### Major Topics

- I. Principles of rotary wing flight
- II. Helicopter flight controls
- III. Airport traffic pattern and communication procedures
- IV. Preflight procedures
- V. Hovering, hover taxiing, and air taxiing
- VI. Normal takeoffs
- VII. Normal landings
- VIII. Straight-in autorotations
- IX. 180-degree autorotations
- X. Postflight procedures

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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