

Common Course Outline
AVMT 248
Commercial Pilot Certification - Helicopter
3 Credits

The Community College of Baltimore County

Description

AVMT 248 – 3 credits – Commercial Pilot Certification – Helicopter provides academic, flight and simulator training towards the completion of the Federal Aviation Administration (FAA) Commercial Pilot Certificate, Helicopter class. Topics include preflight preparation; precision approaches; takeoffs and landings; commercial pilot maneuvers; advanced navigation; hovering flight; emergency procedures; safety; and post flight procedures. This course has additional lab fees.

3 credits: 3 lecture hours per week; approximately 45 hours at a flight training center

Prerequisite: AVMT 144

Co-requisite: AVMT 246 or Aviation Program Coordinator approval

Overall Course Objectives

Upon completion of this course students will be able to:

1. demonstrate flight proficiency required for the FAA Commercial Pilot Certificate;
2. execute performance takeoffs and landings;
3. perform commercial pilot maneuvers;
4. simulate flight in reference to instruments;
5. explain operations at airports and heliports;
6. exhibit the proper use of advanced navigation equipment;
7. describe the operation and function of advanced aircraft systems;
8. identify factors relating to night and low visibility flight operations;
9. identify and assess meteorological elements and critical weather situations;
10. utilize correct pilot-controller communications; and
11. recognize the importance of good aeronautical decision making, crew resource management, and sound judgment.

Major Topics

- I. Preflight planning
- II. Operation of advanced helicopter systems
- III. Advanced rotary-wing aerodynamics
- IV. Advanced navigation systems
- V. Performance takeoffs and landings and go-around procedures
- VI. Commercial pilot maneuvers
- VII. Night and low visibility operations

- VIII. Meteorology
- IX. Safety and emergency procedures
- X. Post flight procedures

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include a minimum of:

- four in-class examinations
- two practical evaluations

Writing: The individual faculty member will assign a minimum of three writing assessments (special topic papers, current events reports, article or textbook summaries, research analysis papers, and personal journals).

Students are required to utilize appropriate academic resources.

Other Course Information

This course is taught in a classroom, simulator and flight environment.

11/4/2014