

AV 117 : HELICOPTER FUNDAMENTALS

Transcript title

Helicopter Fundamentals

Credits

3

Grading mode

Standard letter grades

Total contact hours

30

Lecture hours

30

Recommended preparation

MTH 060 or higher or minimum placement Math Level 10.

Course Description

This course covers fundamentals of helicopter flight, flight operations, helicopter performance, navigation, helicopter systems, aeronautical publications, helicopter flight maneuvers, flight planning, radio procedures, meteorology, and human factors.

Course learning outcomes

1. Recognize fundamental concepts of helicopters and powered flight.
2. Recall basic function of helicopter engines, helicopter systems and flight instruments.
3. Identify the essential aeronautical and aerodynamic concepts of helicopter flight.
4. Demonstrate the fundamentals of helicopter performance and flight planning.

Content outline

Helicopter Flight Controls Helicopter Systems Aerodynamics Flight Manual Weight Balance Ground Procedures Flight Preparation Basic Flight Maneuvers Helicopter Emergencies Hazards Aeronautical Decision Making

Required materials

Requires textbook and/or online learning materials.