AVMT 253
Unmanned Aircraft Systems Flight Training II
3 Credits

Community College of Baltimore County
Common Course Outline

Description

AVMT 253 – Unmanned Aircraft Systems Flight Training II: provides academic, flight, and simulator training on advanced and commercial small Unmanned Aircraft Systems (sUAS). Topics include advanced flight and sensor operations, automated flight modes, crew management, site surveys, and mission planning. This course has additional lab fees.

Pre-requisites: AVMT 161 and AVMT 162 or approval of the Aviation Program Director

Overall Course Objectives

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

1. identify differences between commonly used commercial Unmanned Aircraft Systems (UAS);
2. demonstrate the ability to select appropriate UAS and sensors;
3. operate advanced consumer and commercial UAS at a professional level;
4. plan and execute commercial UAS operations;
5. differentiate automated UAS flight modes;
6. manage different member positions of UAS flight crews;
7. appraise potential UAS flight locations for safety and suitability;
8. inspect UAS prior to operations to determine suitability for flight;
9. formulate appropriate mission plans for UAS operations; and
10. utilize various industry applications to plan and execute UAS missions.

Major Topics

I. Commercially used Unmanned Aircraft Systems (UAS)
II. Selection of UAS and associated sensors
III. Professional operation of UAS
IV. UAS operation planning and execution
V. Automated UAS flight modes
VI. UAS flight crew roles, responsibilities, and management
VII. UAS location scouting
VIII. UAS pre and post flight inspections and actions
IX. UAS mission planning
X. UAS industry applications

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 2 examinations
- 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 Unmanned Aircraft Systems Aviation Technology degree program.

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