

Master Syllabus

AVT 1104 - UAS Standards, Regulations & Law

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 1.0

Lecture Hrs: 1.0

Date Revised: July 2013

Course Description:

This course reviews the current legal considerations of unmanned aerial system (UAS) operations, provides an outlook on future considerations, and informs students on existing and trending UAS related standards and regulations.

General Education Outcomes:

- ▣ Oral Communication Competency
- ▣ Written Communication Competency
- ▣ Critical Thinking/Problem Solving Competency
- ▣ Values/Citizenship/Community Competency

Course Outcomes:

Current Trends in Unmanned Aerial System Policy

Describe the current trends in Unmanned Aerial System policy.

Assessment Method: Focus groups

Performance Criteria:

Students will be asked to work in focus groups and teams to explore the trends and potential future state of the UAS industry. After development of their group opinion, the teams will be encouraged to share their analysis with the rest of the class. In-class participation and discussion is worth 20% of the total course grade. Students are expected to actively engage with their peers in team or larger class discussions.

Assessment Method: Locally developed exams

Performance Criteria:

Students will be tested with midterm and final examinations to gauge their comprehension of the material covered. The midterm and final exams are each worth 10% of the total course grade. Students must correctly answer at least 70% of exam questions.

Assessment Method: Oral examination

Performance Criteria:

Students will respond individually or as part of a team to questions regarding current trends and future of UAS. These exercises will stimulate discussion on student perceptions of the future of UAS operations. The presentation requirement is worth 10% of the total course grade. Students are expected to present their analysis of the current state and future trends in the UAS industry related to standards, regulations, and the law.

Assessment Method: Written surveys and/or questionnaires

Performance Criteria:

Students will develop written responses to questions regarding how the current trends and their opinion of the future of UAS operations and the broader industry. The term paper is worth 20% of the total course grade. Students are expected to develop a paper addressing questions related to the current state and future trends in the UAS industry including standards, regulations, and the law.

American Legal System

Describe the major components of the American legal system, especially those related to aviation and Unmanned Aerial System operations.

Assessment Method: Locally developed exams

Performance Criteria:

Students will be tested with midterm and final examinations to gauge their comprehension of the material covered. The midterm and final exams are each worth 10% of the total course grade. Students must correctly answer at least 70% of exam questions.

Assessment Method: Oral examination

Performance Criteria:

Students will respond individually or as part of a team to questions regarding the major components of the American legal system as they relate to UAS. These exercises will stimulate discussion on the applicable components of the legal system for given situations. In-class participation and discussion is worth 20% of the total course grade. Students are expected to actively engage with their peers in team or larger class discussions.

Assessment Method: Written surveys and/or questionnaires

Performance Criteria:

Students will develop written responses to questions regarding the major components of the American legal system as they relate to UAS. Case studies and scenarios will be presented and the students will develop a response of which aspects of the legal system may apply and why. Homework assignments are worth 30% of the total course grade. Students are expected to develop written responses to provided case studies and scenarios.

Unmanned Aerial System Legal Considerations

Determine the applicability of legal considerations related to Unmanned Aerial Systems including negligence, liability, privacy, etc.

Assessment Method: Focus groups
Performance Criteria:

Students will be asked to work in focus groups and teams to explore the applicability of a legal principle in various case studies and scenarios. After development of their group opinion, the teams will be encouraged to share their analysis with the rest of the class. In-class participation and discussion is worth 20% of the total course grade. Students are expected to actively engage with their peers in team or larger class discussions.

Assessment Method: Locally developed exams
Performance Criteria:

Students will be tested with midterm and final examinations to gauge their comprehension of the material covered. The midterm and final exams are each worth 10% of the total course grade. Students must correctly answer at least 70% of exam questions.

Assessment Method: Oral examination
Performance Criteria:

Students will respond individually or as part of a team to questions regarding major legal considerations including negligence, liability, and privacy as they relate to UAS. These exercises will stimulate discussion on the applicable components of the legal issues given situations. In-class participation and discussion is worth 20% of the total course grade. Students are expected to actively engage with their peers in team or larger class discussions.

Assessment Method: Written surveys and/or questionnaires
Performance Criteria:

Students will develop written responses to questions regarding major legal considerations including negligence, liability, and privacy as they relate to UAS. Case studies and scenarios will be presented and the students will develop a response of which legal considerations may apply and why. Homework assignments are worth 30% of the total course grade. Students are expected to develop written responses to provided case studies and scenarios.

Federal Aviation Administration Enforcement

Summarize how the Federal Aviation Administration shapes and enforces aviation regulations, standards, and law.

Assessment Method: Locally developed exams
Performance Criteria:

Students will be tested with midterm and final examinations to gauge their comprehension of the material covered. The midterm and final exams are each worth 10% of the total course grade. Students must correctly answer at least 70% of exam questions.

Assessment Method: Written surveys and/or questionnaires
Performance Criteria:

Students will develop written responses to questions regarding how the Federal Aviation Administration shapes and enforces UAS related legal and regulatory guidance. Homework assignments are worth 30% of the total course grade. Students are expected to develop written responses to provided case studies and scenarios.

Outline:

- The American Legal System and how it relates to Unmanned Aerial Systems
- The Federal Aviation Administration
- Aircraft/Unmanned Aerial System Ownership Consideration
- Insurance
- Negligence Liability
- Product Liability
- Privacy Considerations
- FAA Standards and Regulations related to Unmanned Aerial Systems
- International Standards and Regulations related to Unmanned Aerial Systems
- Current Remote Controlled Aircraft/UAS Policy
- Trends in UAS Policy and the Way Forward