

Master Syllabus

AVT 1101 - Introduction to Unmanned Aerial Systems

Division: Science, Mathematics and Engineering

Department: Aviation Technology

Credit Hour Total: 2.0

Lecture Hrs: 2.0

Date Revised: February 2012

Course Description:

Foundations of unmanned aerial systems (UAS), including history, elemental systems including payloads, data links, ground support equipment, classes of UAS, categories, applications, mission planning and control, and launch/recovery systems.

General Education Outcomes:

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

Course Outcomes:

History

Identify early unmanned aerial vehicles, payloads, and missions.

Assessment Method: Behavioral observations

Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria:

70% correct responses on exams

Classes and categories

Identify primary systems and vehicles utilized in the unmanned aerial systems industry and their classification and function.

Assessment Method: Behavioral observations

Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria:

70% correct responses on exams

Payloads

Differentiate between reconnaissance and surveillance payloads, radar, electronic warfare, nuclear radiation and meteorological sensors.

Assessment Method: Behavioral observations

Performance Criteria:

Mastery of competency at 100%

Assessment Method: Locally developed exams

Performance Criteria:

70% correct responses on exams

Outline:

History of Unmanned Aerial Vehicles
Classes and Categories
Payloads
Data Links
Launch and Recovery