

## 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

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#### 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