

## Master Syllabus

### AVT 1110 - Private Pilot Ground School

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Other Prerequisite(s):** Approval of Department

**Date Revised:** January 2017

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### Course Description:

Prepares students with the knowledge necessary to successfully complete the Federal Aviation Administration (FAA) Private Pilot knowledge exam. Topics include pilot training, aircraft systems, aerodynamic principles, safety of flight, air traffic control procedures, weather theory, weather hazards and conditions, federal aviation regulations, aircraft performance, weight and balance principles and navigation procedures. Both fixed-wing and helicopter sections are offered.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency
- Values/Citizenship/Community Competency
- Information Literacy Competency

### Course Outcomes:

#### Weather Theory and Weather Analysis

Describe basic weather theory, identify sources of weather information, analyze weather factors, hazards and conditions.

**Assessment Method:** Locally developed exams

**Performance Criteria:**

80% correct response on exams

#### Aircraft Systems

Demonstrate a basic knowledge of aircraft systems, including airplanes, power plant and related systems and flight instruments.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

Mastery of competency at 100%

#### Aerodynamic Principles

Recognize the aerodynamic principles associated with an aircraft in the flight environment.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

80% correct response on exams

#### Safety of Flight and Sources of Flight Information

Describe safety of flight, air traffic control procedures and sources of flight information.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

80% correct response on exams

#### Navigation Procedures

Demonstrate a basic knowledge of navigation procedures, including pilotage and dead reckoning and use of navigational aids in cross country flight planning.

**Assessment Method:** Behavioral observations

**Performance Criteria:**

Mastery of competency at 100%

**Assessment Method:** Locally developed exams

**Performance Criteria:**

80% correct response on exams

**Outline:**

Pilot Training and Aviation Opportunities

Aerodynamic Principles

Air Traffic Control Procedures

Sources of Flight Information

Federal Aviation Regulations

Weather Factors and Hazards

Navigation Procedures