

## Master Syllabus

### AVT 2166 - Practical Dispatch Applications

**Division:** Science, Mathematics and Engineering

**Department:** Aviation Technology

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** AVT 1119 AND AVT 1246 AND AVT 2146 AND AVT 2157 AND AVT 2158 AND AVT 2167

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

**Date Revised:** October 2013

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### Course Description:

In-depth coverage of joint Aircraft Dispatcher/Pilot responsibilities and dispatch functions including communications, operational control, fuel planning, flight planning, aircraft weight and balance, abnormal and emergency situations, weather, NOTAMs (Notices to Airmen) and airport facilities as they relate to flight planning.

### General Education Outcomes:

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

### Course Outcomes:

#### Flight Planning

Comprehend, analyze and demonstrate proper manual flight planning and dispatch techniques, including adherence to federal aviation regulations, route planning and aircraft performance calculations.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exams

**Assessment Method:** Simulations

**Performance Criteria:** Mastery of competency at 100%

#### Weather Data Analysis

Comprehend, analyze and demonstrate the use of aviation weather charts, including surface and upper air charts, constant pressure analysis charts, adverse weather conditions and significant meteorological conditions.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exams

**Assessment Method:** Simulations

**Performance Criteria:** Mastery of competency at 100%

#### Aircraft Weight and Balance Calculations

Comprehend, analyze and demonstrate factors involved in planning proper aircraft weight and balance, including loading techniques, weight shifting, center of gravity analysis, fuel planning and the use of a weight and balance calculator.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher correct responses on exams

**Assessment Method:** Simulations

**Performance Criteria:** Mastery of competency at 100%

### Outline:

Federal Aviation Regulations  
Route Planning  
Fuel Planning  
Aircraft Performance Calculations  
Flight Plans and Clearances  
Weather Data Analysis  
Aircraft Weight and Balance Calculations