

**JAMESTOWN COMMUNITY COLLEGE**  
**State University of New York**

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**Master Course Syllabus**

**Course Title:** Aviation Safety

**Course Abbreviation and Number:** AVN 2100

**Credit Hours:** 3                      **Division:** STEM                      **Course Type:** Lecture

**Course Description:** Students will develop an attitude and philosophy for accident prevention. Topics include: ideal, practical, personal, and organizational safety procedures and goals; safety philosophies; aircraft accident reports; human factors; and principles of accident investigation, accident prevention programs, and accident statistics.

Prerequisite: AVN 1240 and AVN 1250 or instrument rating; Eligibility: ENG 1530.

**Course Attributes:** C,E

(C=Career, E=Elective, H=Humanities, L=Liberal Arts & Sciences, N=Mathematics/Sciences, S=Social Sciences, VEDP=Values, Ethics & Diverse Perspectives)  
4-letter codes represent SUNY General Education Courses, please see below to determine which SUNY General Education requirement(s) is met.

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**Student Learning Outcomes:**

After successful completion of this course, students will be able to:

1. Explain the effects of hypoxia on the body.
2. Calculate weight and balance for a large aircraft.
3. Give examples and explain how human factors are most often the cause of airline incidents.

**Additional Student Learning Outcomes that meet SUNY General Education Requirements:**

Does this course meet a SUNY General Education requirement(s)?  Yes                       No

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**Topical Outline:**

- |                                          |                                     |
|------------------------------------------|-------------------------------------|
| • Advanced Weight and Balance Principles | • FAA Safety Program Manager        |
| • Aircraft Loading - % MAC               | • Human Factors                     |
| • Aircraft Performance                   | • Cockpit Resource Management       |
| • Turbine Aircraft Performance           | • Aeromedical Factors               |
| • Airworthiness                          | • Airline Crashes AF90 - Sioux City |
| • Danger Zones                           | • Survival - Land & Water           |
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**Signatures and Dates:**

**Discipline Director:** Richard J. Rupprecht

**Date:** 1/14/10

**Assistant Dean:**



**Date:** 1/20/2010

**Academic Affairs:** CR

**Date:** 1/20/2010

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**Effective Date:** Spring 2010