

# JAMESTOWN COMMUNITY COLLEGE

## State University of New York

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### Master Course Syllabus

**Course Title:** Certified Flight Instructor-Airplane

**Course Abbreviation and Number:** AVN 2250

**Credit Hours:** 3

**Division:** STEM

**Course Type:** Lecture/Lab

**Course Description:** This course consists of a minimum of 65 hours of instruction - 25 hours of dual flight and 40 hours of classroom instruction - and prepares students for the FAA Certified Flight Instructor Airplane Practical Test. Flight instruction consists of a comprehensive review of private and commercial flight maneuvers. The class instruction includes an in-depth discussion of the fundamentals of instruction, including lesson plan preparation, laws of learning, and effective communication techniques. Aerodynamics, regulations, procedures, and other topics covered during the private and commercial phases of training are also reviewed.

**Prerequisites:** commercial pilot certificate with instrument rating and current FAA Third Class Medical Certificate.

**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:

These SLO's come from the FAA Code of Federal Regulations (CFR) § 61.185 Aeronautical knowledge.

(a) A person who is applying for a flight instructor certificate must receive and log ground training from an authorized instructor on:

1. Except as provided in paragraph (b) of this section, the fundamentals of instructing, including:
    - (i) The learning process;
    - (ii) Elements of effective teaching;
    - (iii) Student evaluation and testing;
    - (iv) Course development;
    - (v) Lesson planning; and
    - (vi) Classroom training techniques.
  2. The aeronautical knowledge areas for a recreational, private, and commercial pilot certificate applicable to the aircraft category for which flight instructor privileges are sought; and
  3. The aeronautical knowledge areas for the instrument rating applicable to the category for which instrument flight instructor privileges are sought.
- (b) The following applicants do not need to comply with paragraph (a)(1) of this section:
1. The holder of a flight instructor certificate or ground instructor certificate issued under this part;
  2. The holder of a current teacher's certificate issued by a State, county, city, or municipality that authorizes the person to teach at an educational level of the 7th grade or higher; or
  3. A person employed as a teacher at an accredited college or university.

From FAA CFR § 61.187 Flight proficiency.

(a) General. A person who is applying for a flight instructor certificate must receive and log flight and ground training from an authorized instructor on the areas of operation listed in this section that apply to the flight instructor rating sought. The applicant's logbook must contain an endorsement from an authorized instructor certifying that the person is proficient to pass a practical test on those areas of operation.

(b) Areas of operation.

1. For an airplane category rating with a single-engine class rating:
  - (i) Fundamentals of instructing;
  - (ii) Technical subject areas;
  - (iii) Preflight preparation;
  - (iv) Preflight lesson on a maneuver to be performed in flight;
  - (v) Preflight procedures;
  - (vi) Airport and seaplane base operations;
  - (vii) Takeoffs, landings, and go-arounds;
  - (viii) Fundamentals of flight;
  - (ix) Performance maneuvers;
  - (x) Ground reference maneuvers;
  - (xi) Slow flight, stalls, and spins;
  - (xii) Basic instrument maneuvers;
  - (xiii) Emergency operations; and
  - (xiv) Postflight procedures.

**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:** See Student Learning outcomes above.

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**Signatures and Dates:**

**Discipline Director:** Richard J. Rupprecht

**Date:** 08/25/09

**Assistant Dean:**

*Jean Schuader*

**Date:** 11/30/2009

**Academic Affairs:** CR

**Date:** 11/30/2009

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**Effective Date:** Fall 2009