

Aviation Science: Pilot (AVI)

This program offers a state-of-the-art curriculum for those students who intend to enter the field of aviation as pilots. Designed primarily for students who anticipate transferring to a four-year institution to pursue a baccalaureate degree, the program contains a balance of liberal arts and sciences courses, technical courses and flight labs.

The program specifically prepares matriculated students to meet the stringent requirements outlined by the FAA in order to acquire a Private Pilot Certificate and Commercial Pilot Certificate, both with an Airplane Category Rating and a Single Engine Class Rating. In this process, students will gain the knowledge and proficiency necessary to acquire an Instrument Rating. Students are provided with coordinated flight training in single engine airplanes and a ground trainer. Although primarily a transfer program, Aviation Science also can lead to a rewarding entry-level career in aviation support positions concerned with other multifaceted aspects of the aviation industry.

The Associate in Science (A.S.) degree is awarded upon completion of requirements for this program. Students who successfully complete the Associate in Science (A.S.) degree in Aviation Science: Pilot (AVI) will be able to:

- Obtain an FAA certificate appropriate to the level of pilot proficiency;
- Apply the scientific method, develop hypotheses, analyze results and draw conclusions;
- Demonstrate the ability to use technology and software applications to produce an output or perform analyses appropriate to their academic program/discipline;
- Work with graphical, numerical or symbolic models to solve problems and interpret results.

Courses must be selected in consultation with the Program Coordinator.

NOTE: An important requirement for enrollment into the Aviation Science program is the successful completion of an FAA physical, leading to a 1ST or 2ND class Medical Certificate. The Medical Certificate is required by the Federal Aviation Administration in order for enrollees to act as a Pilot in Command in a commercial environment. A list of local FAA approved doctors will be provided by the Program Coordinator.

FEES: Aviation Science flight labs require additional and substantial lab fees (subject to change). Fees range from \$9,146-\$9,389 per semester. Prospective students are strongly encouraged to contact the Aviation Science Program Chair for more information.

NOTE: Students are required to pass the required FAA written exam, which will be administered at the end of each specified flight class. Flight labs will require the successful completion of stage exams, flight stage checks and at course completion, final stage check or practical test. Advancement through the program requires the above requirements being met.

First Semester

Course No.	Descriptive Title	Credit Hours
AVI 100	Aviation Introductory Seminar	1

AVI 101	Introduction to Flight	4
AVI 111	Introduction to Flight Lab (a)	1
AVI 102	Aviation History	3
ENG 101	Composition I	3
CIS 111 (or higher)	Computer System and Applications	3
	TOTAL	15

Second Semester

Course No.	Descriptive Title	Credit Hours
AVI 104	Instrument Flight	4
AVI 114	Instrument Flight Lab (a)	1
MAT 185	Pre-Calculus	4
PHS 111	Weather and Climate	4
ENG 102	Composition II	3
	TOTAL	16

Third Semester

Course No.	Descriptive Title	Credit Hours
AVI 208	Commercial Flight	3
AVI 218	Commercial Flight Lab (a)	1
AVI 110	Aviation Law	3
MAT 221	Calculus I	4
PHY 121	General Physics I	4
	TOTAL	15

Fourth Semester

Course No.	Descriptive Title	Credit Hours
AVI 116	Flight Safety	3
AVI 209	Commercial Flight Lab II (a)	1
	American History (Appendix D)	3
PHY 122	General Physics II	4
BHS 103	Social Problems in Today's World	3
	Free Elective (b)	3
	TOTAL	17
	TOTAL CREDIT HOURS	63

a. Students are strongly encouraged to contact the Aviation Science Program Chair for the current negotiated fee for flight training and for course/program information. Fees are contractually set each year with the Flight School and depend heavily on current fuel charges. Students are required to pass the FAA written exam, which will be

administered at the end of each specified flight class.

Flight labs will require the successful completion of stage exams, flight stage checks and, at course completion, final stage check or practical test. Advancement through the program requires that each of these requirements be met. Students are given an incomplete for flight lab until the appropriate Final Stage Check has successfully been completed. Students cannot progress without completing the prerequisite courses.

b. Students must choose a course from SUNY General Education Appendix E, F, H, or I. [Click here](#) for a full discussion of the free elective requirement.