The human factors and safety program prepares students for challenging careers and advanced education in human factors, safety and other related disciplines. Students are quickly exposed to topics like aviation physiology, human performance and the National Airspace System. This major is available as either a flight or non-flight program.

Why Human Factors and Safety at Florida Tech?
Studying aviation at Florida Tech is a very personal experience. Your instructors on campus and at the flight line will know you as a person, not just a face in the classroom or a name in the grade book. Our faculty is a mix of highly experienced pilots, scientists, and airport design and management experts. In addition to flight, pilot faculty members are also experts in at least one other area such as aviation law, safety, human factors, aviation business management or finance. Other faculty have experience in airport consulting, design and management, meteorology and air traffic control.

Your First-Year Experience
In your first year, you are immediately immersed in courses covering aviation basics, physiology and safety. Students of human factors and safety have the opportunity to work as part of a hands-on team to redesign an airplane cockpit. All students, including flight and non-flight majors, take a private pilot knowledge course and an aviation weather course their freshman year. Everyone learns about the FAA, air traffic and the National Airspace System, as well as the fundamentals of aircraft flight dynamics. All students may fly the desktop simulator in the computer lab any time they wish.
Human Factors and Safety

Excellent Facilities

Human factors and safety majors use the first-rate computer labs in the College of Aeronautics to study airport design and planning, noise analysis, and environmental analysis. Human factors and safety courses meet in Skurla Hall on the subtropical Melbourne campus. Skurla Hall includes classrooms, computer labs for airport design and planning, and the Basic Aviation Training Device (BATD) Lab. The BATD lab enables all students to fly desktop simulators under the supervision of a flight instructor for free. Skurla Hall is also home to the Air Traffic Control lab.

Internships

Students of human factors and safety are encouraged to take internships over a summer or another semester. Just a few of these opportunities include major airports, small airports, major and regional airlines, and a variety of businesses both aviation and not. Through internships, you gain specialized experience in airline operations, safety analysis and system design. Some airlines and organizations even offer students the opportunity to attend valuable development courses such as aircraft systems during their time with the company.

Accreditation

The human factors and safety and human factors and safety—flight majors are both accredited by the Aviation Accreditation Board International. University flight training and associated ground courses are conducted under the provisions of Federal Regulations 14CFR Part 141. Additionally, Florida Tech has been designated as a core team university for the Federal Aviation Administration (FAA) Center of Excellence (COE) for General Aviation. The center focuses its research and testing efforts on safety, accessibility and sustainability to enhance the future of general aviation.

What’s Next?

Between expert instructors, real-world relevant internship opportunities, an engaged alumni network and an excellent Career Management Services office, human factors and safety majors easily make critical contacts that help them get hired after graduation.

With a human factors and safety degree, non-flight option, you can work in aviation safety departments, product and system design teams, the National Transportation Safety Board or a variety of other aviation, human factors and safety related fields. Human factors and safety majors who successfully complete the Air Traffic Control (AT-CTI) concentration are recommended to the FAA for hire as an air traffic controller.

Be a Flight Instructor

The flight instructor ground and flight courses can be taken as electives with the human factors and safety—flight major. FIT Aviation LLC hires students and recent graduates who have their CFI certificates as flight instructors, giving them the opportunity to gain professional experience and build flight time (hours). It is also a great way to offset the cost of flight fees and/or graduate studies.

Florida Institute of Technology

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www.fit.edu
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College of Aeronautics

AIR TRAFFIC CONTROL PROGRAM

The Florida Tech College of Aeronautics offers an Air Traffic Control (ATC) specialization in conjunction with all of its seven bachelor’s degree programs. The ATC specialization meets the requirements of the Federal Aviation Administration’s (FAA) Air Traffic-Collegiate Training Initiative (AT-CTI) program and is FAA approved.

Graduates of the AT-CTI program are eligible to bypass the Air Traffic Basics Course, which is usually covered during the first five weeks of qualification training at the FAA Academy in Oklahoma City. Academy training consists of option-specific (terminal or en route) initial training. Students must successfully complete all required training at the FAA Academy to continue employment with FAA.

To achieve an ATC specialization in conjunction with a bachelor’s of Science degree, seven named courses (21 credit hours) must be completed either as required courses within a degree or as electives or as a combination of required and elective courses. The seven named courses are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>AVT 1101</td>
<td>Aeronautics 1</td>
<td>3</td>
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<tr>
<td>AVS 1201</td>
<td>Aviation Meteorology</td>
<td>3</td>
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<tr>
<td>AVS 2101</td>
<td>Aerodynamics</td>
<td>3</td>
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<tr>
<td>AVT 2001 or AVT 2201</td>
<td>Aeronautics 3 National Airspace Systems</td>
<td>3</td>
</tr>
<tr>
<td>AVT 3203</td>
<td>Air Traffic Control 1</td>
<td>3</td>
</tr>
<tr>
<td>AVT 4301</td>
<td>Aviation Safety</td>
<td>3</td>
</tr>
<tr>
<td>AVT 4302</td>
<td>Air Traffic Control 2</td>
<td>3</td>
</tr>
</tbody>
</table>

21 credit hours

Florida Institute of Technology does not discriminate on the basis of race, gender, color, religion, creed, national origin, ancestry, marital status, age, disability, sexual orientation, Vietnam-era veterans status or any other discrimination prohibited by law in the admission of students, administration of its educational policies, scholarship and loan programs, employment policies, and athletic or other university sponsored programs or activities.

What must I do become an air traffic controller?

- Graduate from an FAA approved AT-CTI program
- Receive an official school recommendation
- Be a United States citizen
- In most cases, be under 31 years old
- Pass a medical examination
- Pass a security investigation
- Achieve a score of at least 70 on the FAA pre-employment test
- Speak English clearly enough for others to understand you on communications equipment
- Complete an interview

For Florida Tech College of Aeronautics AT-CTI information, contact:

Dr. Donna Wilt or Nick Galli:
dwilt@fit.edu ngalli@fit.edu
(321) 674-8120 (321) 674-7369

For Florida Tech admission information, please go to:
www.fit.edu/prospective.