Florida Tech's College of Engineering is known both regionally and internationally for its dynamic, challenging and rewarding degree programs. But what program to choose? First-year students interested in engineering but still deciding on a major may elect to enroll in the general engineering option. These students have the flexibility to explore different fields while completing core engineering courses, giving them freedom along with focus.

Program Overview
A student who wishes to postpone the selection of a major may enroll for up to one year as a general engineering student, allowing him or her more time to become familiar with all College of Engineering academic programs.

In their first semester, students take an Introduction to Engineering course which presents engineering techniques and professional aspects and ethics of engineering through classroom lectures and laboratory activities. Faculty members from each of the major disciplines in engineering and applied science are invited during the semester to present an overview of their discipline. Other guest speakers have included engineers from industry with presentations on topics such as ethical problem solving and industrial design.

The course also introduces the typical tools used by engineers such as computer software, spreadsheets, CAD drawings and other instruments used in laboratory experimentation.

Students are urged to select degree programs as early in the year as possible; those who take the courses listed in the following sample and no others for the entire freshman year may have up to 9 credit hours of course work to make up later.

Students in this program are advised by a general engineering faculty member until a degree program is selected. Students are advised to select a major from one of the degree programs listed on this sheet near the end of their first semester of enrollment at Florida Tech. Students may continue in General Engineering for a second semester, but are expected to select a degree program once 30 credit hours have been successfully completed. Acceptance into the desired degree program is automatic unless the student has been academically dismissed.
General Engineering

General Engineering First-Year Curriculum

<table>
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<tbody>
<tr>
<td>ASC 1000</td>
<td>University Experience</td>
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<tr>
<td>CHM 1101</td>
<td>General Chemistry 1</td>
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<tr>
<td>COM 1101</td>
<td>Composition and Rhetoric</td>
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<td>EGN 1000</td>
<td>Introduction to Engineering</td>
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<tr>
<td>MTH 1001</td>
<td>Calculus 1</td>
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<tr>
<td>COM 1102</td>
<td>Writing about Literature</td>
</tr>
<tr>
<td>CSE 1502</td>
<td>Introduction to Software Development with C+</td>
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<tr>
<td>or CSE 1503</td>
<td>Introduction to Software Development with FORTRAN</td>
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<tr>
<td>MTH 1002</td>
<td>Calculus 2</td>
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<td>PHY 1001</td>
<td>Physics 1</td>
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<tr>
<td>PHY 2091</td>
<td>Physics Lab 1</td>
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Capstone Design Projects

The hallmark of a Florida Tech engineering degree is the capstone student design project, a degree requirement for all undergraduate students. As part of this interdisciplinary lesson in engineering, students collaborate as a team to design, build, manage, secure funding, and present oral and written reports. Many of these projects compete in regional and national competitions on an annual basis. Previous design projects have included:

- a full-scale rocket launch
- a concrete canoe
- an off-road racer
- an underwater tracking device
- a human-powered submarine
- a mini-style formula race car
- a radio frequency identification system
- a micro-unmanned aircraft vehicle
- a weigh-in-motion system using fiber optics
- an autonomous robot
- a multipurpose circuit board
- an aircraft that can take off and land vertically and fly horizontally

Did You Know?

Florida Tech is ranked a Tier One Best National University by U.S. News & World Report and has been named among the “Best in the Southeast” by Princeton Review. In addition, Florida Tech has been ranked a Barron’s Guide “Best Buy.”

Excellent Location

Florida Tech is located amidst the nation’s fourth largest high-tech workforce on Florida’s Space Coast. Students enjoy countless opportunities for internships, co-ops and career networking.

ProTrack Engineering Co-op

Florida Tech’s ProTrack Engineering Co-op allows qualified engineering students to complete up to three semester-long paid work experiences related to their major and career interests while still earning a bachelor’s degree in four years.

www.fit.edu/career/co-op

Florida Institute of Technology

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