A Prospectus for the Overseas Student
Here at Florida Tech you’ll find a diverse, multicultural and international community of students and faculty.

Over 30% of our undergraduate students and nearly 50% of our graduate students are from outside of the United States, representing more than 115 countries.

What Others Have Said About Us


• For the sixth straight year, the university is ranked a Tier One Best National University by *U.S. News & World Report* in its 2016 edition of “Best Colleges.”

• Florida Tech is honored by *U.S. News & World Report* as the #1 National University in the country for fostering international student experiences.

• The 2017 College Salary Report published by PayScale.com ranked Florida Tech graduates’ mid-career median salaries in first place among Florida universities and among the best in the nation. Twenty years after graduation, return on investment for Florida Tech graduates is $620,000.

• *Bloomberg Businessweek* has named the university “Best College for Return on Investment in Florida.”

• Florida Tech was named one of the nation’s best technical schools in the 2017 *Fiske Guide to Colleges,* earning a spot in the influential annual directory’s list.

• *Forbes* lists Florida Tech among America’s Top Colleges in its 2015 rankings of just 650 select schools, placing the university among the best of America’s undergraduate institutions.

• Top 10 Affordable Engineering Universities in the U.S.—*Dhaka Tribune,* March 2016
Florida Institute of Technology is a national, doctoral-granting research university offering rigorous degree programs in an enriched technological environment. The university is fully accredited, coeducational, independent and privately supported.

**FOUNDED:** 1958 to train professionals working at what is now Kennedy Space Center.

**LOCATION:** Melbourne, Fla., 5 minutes from the Indian River, 10 minutes from the Atlantic Ocean, 50 minutes from Kennedy Space Center, 1 hour from Orlando and 3 hours from Miami.

**CAMPUS:** A friendly and safe place to live and learn, the campus spans 130 subtropical acres, which include a picturesque botanical garden, many new research laboratories, classrooms and residence halls, exceptional libraries and athletic facilities.

**STUDENT-FACULTY RATIO:** 9:1 (Melbourne Campus)

**FACULTY:** 230 full-time faculty on Melbourne campus; 90% of full-time teaching faculty have Ph.D. or terminal degrees appropriate to their fields.

**TECHNOLOGY:** Residence halls are wired for internet, internet 2 and National LambdaRail (NLR), the most advanced and high-capacity academic national network. Nearly all campus buildings offer wireless network connectivity.

**CAMPUS LIFE:** All first- and second-year bachelor’s degree students live on campus, and half of all undergraduates live on campus. Residential and dining halls offer a wide variety of living options and meal plans. The campus environment is vibrant and a close-knit community. While on-campus housing is available to graduate students, most choose to live off campus.

**STUDENT ORGANIZATIONS:** Over 100 academic, social, cultural, performance, media, leadership and honor societies, clubs and organizations.

**ATHLETICS:** 22 intercollegiate varsity sports including baseball (M), basketball (M,W), cross country (M,W), football (M), golf (M,W), lacrosse (M, W), rowing (M,W), soccer (M,W), softball (W), swimming (M,W), tennis (M,W), track and field (M,W) and volleyball (W)

**INTRAMURALS AND CLUB SPORTS:** 60% of students participate in intramurals and club sports.

**AMAZING LOCATION**
Florida Tech’s beautiful 130-acre main campus is located in Melbourne on Florida’s sunny Atlantic coast, where the average daily temperature is 72°F (21°C) and it’s a 10-minute drive to the beach. Swimming, surfing, boating, diving, fishing and other outdoor sports are popular year-round activities. Close to Orlando, Miami and Tampa, a day or weekend trip is easy. Home to hundreds of high-tech companies and the country’s fourth largest high-tech workforce, Melbourne also provides students with countless internship and employment opportunities in top industries.

“**The best part about Florida Tech is the opportunities that are near campus. Tons of different aerospace companies are in the area including NASA, Northrop Grumman and Harris.**”

Zachary Gurdon-Cobham
Aerospace Engineering ’18
Barbados
Aeronautical Science (Flight Option), B.S.
This curriculum prepares the student for a flight operations career in the global aviation and science industry. The program provides the essential background in aeronautical sciences and aviation studies to prepare a student for careers in aviation agencies, airports and aviation consulting firms. Students may undertake this degree program with or without the flight option. The flight option prepares graduates for a flight operations career and/or a career as a professional pilot.

Air Traffic Control, A.A.
This program will prepare you for a career in the aviation industry. This allows you to bypass the air traffic basics course at the FAA Academy and makes it possible for a student to complete two years of most of the bachelor’s degree programs offered by the College of Aeronautics. So whether you want to go right into the air traffic control industry or continue your education, you’ll be well prepared for a career in high demand.

Airport Development and Management, M.S.A.
This program is for students interested in a career in airport or airline management, airport consulting and governmental organizations involved in the management or regulation of airports.

Applied Aviation Safety, M.S.A.
The applied aviation curriculum is for students interested in aviation safety, accident investigation, technical aviation consulting and educational regulatory or investigative positions in government or trade organizations.

Aviation, Av.D.
The Doctor of Aviation degree is Florida Tech’s first terminal degree offered 100% online and the world’s first doctoral degree dedicated exclusively to working aviation professionals. It is a fixed, three-year curriculum. The first two years are dedicated to course work in research, statistics, quantitative reasoning, modeling and analysis. The final year is reserved for the dissertation, from proposal to defense. Whereas a Ph.D. student’s dissertation would be theoretical in nature, an Av.D. student’s dissertation research should be oriented for industry, typically involving a practical field problem.

Aviation Human Factors, M.S.
Human factors refers to the field of study that attempts to identify the principles of human/machine interactions and apply these principles to the design operation of engineered systems. This field is both a rigorous research domain rooted in cognitive, physiological and engineering theory, and an applied science with an intimate and direct connection to the operational world. Studies range from aircraft cockpit design and aircraft maintenance methods and procedures to complex ground-based entities such as the National Airspace System.

Aviation Management (Flight Option), B.S.
This program provides a comprehensive background in aviation studies, management and development, which is appropriate to careers in air transportation, air commerce, aviation management, planning and development. Students may undertake this degree program with or without the flight option. The flight option curriculum prepares the student to become a professional pilot with a strong business and management foundation appropriate for careers in air commerce, airport management and aircraft sales and insurance.

Aviation Management, M.S.
This online program is designed for adult working professionals in public, private or military aviation related professions where advanced knowledge of aviation management is key to success in the program. Persons interested in a wide range of aviation management applications such as airport managers, airport operations officers, corporate investigative positions in government or private organizations would find this degree appropriate.
Aviation Meteorology (Flight Option), B.S.
This program provides a background in meteorology, aeronautical science and appropriate physical sciences. A student completing the program meets the requirements of the U.S. Office of Personnel Management for employment by the federal government as a meteorologist. Students will be prepared for careers with major airlines, corporate aviation and the FAA, as well as international organizations. Students may undertake this degree program with or without the flight option. The flight option prepares students for a career as a professional pilot with a strong meteorological and physical science background. A student completing the program also meets the requirements of the U.S. Office of Personnel Management for employment by the federal government as a meteorologist. Students are afforded significant flexibility in career choices upon graduation.

Aviation Sciences, Ph.D.
The doctor of philosophy program is designed to prepare students to have an understanding of the diverse and multidisciplinary nature of the critical issues facing the aviation industry, to acquire the capacity and experience needed to perform autonomous research that will advance the frontiers of aviation knowledge, and to assume leadership positions within the aviation community in both academic and non-academic settings.

Flight Operations and Dispatch, A.A.
This program will prepare you for a career in the aviation industry. This makes you eligible for the FAA Aircraft Dispatch examinations to obtain your dispatch certificates. Through the program, you'll gain knowledge in flight operations, flight planning and the national airspace system. In addition, it makes it possible for a student to complete two years of most of the bachelor's degree programs offered by the College of Aeronautics.

Human Factors in Aeronautics Online, M.S.
This online program is tailored for the working professional who needs to acquire and apply up-to-date, practical human factors expertise in the workplace or to engage in advanced human factors research to build a foundation for additional education beyond this master's degree. This program is especially relevant for those who have earned baccalaureate (or above) degrees in engineering, psychology or aviation-related fields and now require more specialized human factors knowledge.

Human Factors & Safety (Flight Option), B.S.
Human factors examines the science behind the human element in human-machine interactions. Students pursuing a human factors degree are truly interdisciplinary, studying aspects of psychology, engineering, science and design. Human factors and safety focuses on applied psychology and sciences for a technical career in human factors and safety. The College of Aeronautics boasts faculty who are experts in at least one other area such as law, avionics, environmental science or air traffic control. Students learn from educators with backgrounds as diverse as the study of human factors itself. Flight option students will achieve at least commercial pilot licensure with instrument and multiengine ratings, preparing them for a career as a professional pilot.

FLIGHT OPTION
Available to undergraduates majoring in aeronautical science, aviation management, aviation meteorology, or human factors & safety, the flight option prepares students for careers as professional pilots in the ever-expanding aviation industry.

Flight training happens at the world-class Emil Buehler Center for Aviation Training and Research at the nearby Melbourne International Airport.

Upon completion of the first two years of their flight option degree curriculum with a cumulative GPA of 2.0 or higher, students may petition for the award of the Associate of Science degree.

ADVANCED AIRLINE PILOT TRAINING
In partnership with AeroStar Training Services, Florida Tech offers airline type rating courses to undergraduate flight students for academic credit—an opportunity you won't find at any other college in the country. Students who complete this three-course airline pilot sequence gain:
• First-hand understanding of the high-speed, high-altitude regimen
• Professional experience on Level D Full Flight Simulators
• A pilot-in-command (PIC) type rating for the Airbus 320 or Boeing 737

Upon successful completion, students will have earned a type rating certification and up to six hours of college credit toward graduation in their degree program. Successful completion of the simulator observation course earns one credit hour. The jet transition course earns two credit hours.

Either type rating training course (A320 or B737) earns three credit hours.

These courses may also be approved as electives in Florida Tech's aviation master's degree programs. The university offers master's degrees in aviation human factors and applied aviation safety.

EASA CERTIFIED
Florida Tech's flight training organization, FIT Aviation, has earned authorization from the European Aviation Safety Agency (EASA) to become the first Approved Training Organization (ATO) in the United States to achieve compliance under new European standards.

The aeronautical science and aviation management programs are accredited by the Aviation Accreditation Board International (AABI).
Accounting, B.S.
The accounting degree program integrates strong accounting courses with real-world experience, providing a solid business framework. Guided by highly accomplished faculty, students build the foundation needed to pursue an accounting-track MBA and/or take the CPA exam. Students develop a strong background in business and get hands-on experience in modern accounting strategies and best practices.

Accounting and Financial Forensics, M.S.
Our Master of Science in Accounting and Financial Forensics (MS-AFF) degree offers participants training in an innovative and sought-after area of accounting. This graduate professional program emphasizes the breadth of preparation in accounting, finance and business technology alongside a depth of knowledge in forensic accounting, internal auditing and the financial environment. The degree can be completed in two years or less. The program courses and interactions provide the high-level knowledge and range of skills to meet the challenges of today’s accounting control and financial risk needs. The degree focuses on two populations: Accounting undergraduates who must satisfy the 150-credit-hour requirement to be licensed as Certified Public Accountants (or 30 hours beyond the bachelor degree), and other business majors and non-business majors interested in the expanding field of financial forensics.

Business Administration, B.S., MBA
Florida Tech's Nathan M. Bisk College of Business sets a new standard in the development of tomorrow's business leaders. Our graduate and undergraduate programs combine an interactive classroom learning environment; hands-on, real-world experience; and intensive personal and professional development through interaction with faculty and industry professionals to prepare the student for a successful business career. To help complete the educational experience, students participate in the Corporate Mentor Program and a business practicum—a full semester of hands-on corporate experience. The value of Florida Tech's innovative approach to business education is recognized throughout the industry. Graduates of our bachelor's and master's programs are employed in significant organizations throughout the world and are well known for their high levels of performance and their exceptional professional character.

Accounting
The accounting degree program integrates strong accounting courses with real-world experience, providing a solid business framework. Guided by highly accomplished faculty, students build the foundation needed to pursue an accounting-track MBA and/or take the CPA exam. Students develop a strong background in business and get hands-on experience in modern accounting strategies and best practices.

Entrepreneurship
Students who earn an entrepreneurship degree develop a strong business foundation in accounting, marketing, finance, economics, human resources, information systems, and management. Combined with hands-on experience and faculty mentorship, students gain expert knowledge, leadership skills and an ability to identify needs in the marketplace and create solutions to meet them. Students also have access to the Student Business Incubator, the on-campus center for new venture creation.

Global Management & Finance
The global management and finance program prepares students for work in domestic or foreign-based companies involved in international trade or finance. The program emphasizes the impact of national culture in shaping values, behaviors and business practices. Students will apply critical thinking to evaluate global financial issues related to currency fluctuations, exchange rate risk, and multinational investment and capital budgeting. Students are encouraged (but not required) to enroll in a study abroad program during the summer months.

Information Technology Management
The information technology management program integrates dynamic information systems with complex business processes, preparing students to become confident decision-makers and apt problem-solvers. A business practicum enables students to apply their skills in real-world situations, readying them for a wide variety of in-demand careers. Students will enhance their business management skills and can directly enter the job market, in commerce, industry, government or other areas. Many students wish to continue into graduate school or enter one of the professional fields such as law, where they will have had an excellent undergraduate preparation.

Leadership and Social Responsibility
The leadership and social responsibility program is designed for students who are interested in leadership roles in organizations to promote socially responsible behavior and high ethical standards. Students will apply critical thinking to evaluate corporate social responsibility across business disciplines. Students will learn leadership theory and practices in making a positive impact on quality of life for the workforce and its families as well as for local communities and society as a whole.

Marketing
The marketing program offers a diverse and innovative portfolio of academic programs aimed at preparing the leaders of tomorrow to excel in business and industry. The degree curriculum provides students with the tools for success in a global society in all areas of marketing in a global economy including principles of marketing, research techniques, marketing strategy and consumer behavior among other key areas. Students enjoy one-on-one contact with faculty mentors, a close-knit community of peers, a technologically integrated learning environment and hands-on experiences in real-world endeavors.

Sport Management
The sport management program blends management practices with communication skills and the study of sports psychology and organizational behavior. Graduates are prepared for careers in a variety of fields including athletic program management, team management, sports information and promotion (including marketing, advertising, etc.), event and facilities management, sports writing and sports data/history analysis.
Business and Environmental Studies, B.S.
This program emphasizes the application of economics to issues associated with the environment and the use of natural resources. It familiarizes students with both analytical and decision-making techniques used in assessing environmental concerns and the use of natural resources, and develops a balanced perspective on business and the environment.

Healthcare Management, MBA
The Healthcare Management MBA degree program prepares individuals to lead healthcare organizations in today's rapidly growing and changing environment. The specialization provides both current and potential managers information about the legal aspects of healthcare, financial management in healthcare organizations, information technology in healthcare, and planning and marketing in healthcare institutions. The skills provided are applicable to the many different healthcare organizations in our society.

Information Systems, B.S.
The major in information systems offers a curriculum that provides depth of knowledge, hands-on use of technology and real-world business applications through course projects. Each course will emphasize information systems from a global business perspective. The course work provides a solid understanding of the business core (management, accounting, finance, marketing and economics), supplemented by specialized knowledge of information systems and capabilities. The business practicum (focused on information systems) provides students an opportunity to hone their skills in a real-world environment, enabling them to confidently enter their future positions ready to make meaningful contributions.

The Nathan M. Bisk College of Business's undergraduate and MBA programs are IACBE (International Assembly for Collegiate Business Education) accredited. IACBE is the leading outcomes-based, professional accreditation agency for business education at universities that have as a primary purpose excellence in teaching and learning.

FLORIDA TECH’S FASTTRACK MBA PROGRAM
Florida Tech offers a 4+1 MBA track for students whose undergraduate major is outside of the majors offered in the Nathan M. Bisk College of Business. Students can satisfy some, or all, of the core course requirements through free electives, social science electives and business or technical electives, as required in their major program of study. In some cases, an extra course will be required for one semester to complete the four core courses. The students may then complete the MBA requirements in one additional calendar year (three consecutive semesters).
Academic Programs

College of Engineering and Computing
http://coe.fit.edu

Aerospace Engineering, B.S.*, M.S., Ph.D.
This program empowers students to pursue the design and creation of propulsion systems, aerospace structures and materials, and to pursue advances in the fields of aerodynamics, fluid dynamics and combustion. Ranging from manned lunar excursions to beneficial commerce on space stations, the contributions from the aerospace engineering profession have been profound. Aerospace engineers are currently involved in rocket launch operations and are expected to take part in future commercial space endeavors.

Biomedical Engineering, B.S., M.S., Ph.D.
Biomedical engineering applies engineering and science methodologies to the analysis of biological and physiological problems and the delivery of healthcare. The biomedical engineer serves as an interface between traditional engineering disciplines and living systems, and may focus on either applying the patterns of living organisms to engineering design or engineering new approaches to human health. A biomedical engineer may use their knowledge of engineering to create new equipment or environments for such purposes as maximizing human performance or providing noninvasive diagnostic tools. Students can choose elective courses in their area of interest offered by other engineering disciplines.

Chemical Engineering, B.S.*, M.S., Ph.D.
Chemical engineering is primarily the application of chemical principles to industrial processes and environmental problems. The goal is to effect a change in the composition and properties of matter to benefit society and the environment. A graduate in chemical engineering has the basic training to solve problems in transport and separation processes, process dynamics and control, energy production, food and petrochemical processing, materials synthesis and processing, and chemical equipment and plant design.

Civil Engineering, B.S.*, M.S., Ph.D.
Civil engineers plan, design, construct and maintain the facilities that are essential to modern living. Through the vigorous academic program at Florida Tech, students develop skills to work with architects, contractors, owners, and municipal and other government officials. They work on projects such as highways and airport facilities, structural systems for buildings or bridges, water supply and water disposal systems and urban planning.

Computer Engineering, B.S.*, M.S., Ph.D.
The computer engineering program provides a total learning experience to expose the entire spectrum of computer engineering concepts from the basic building blocks of transistors and gates, through the progression of embedded controllers, computer architectures and complex computer system applications. Students develop an extensive knowledge of hardware, along with a strong education in concurrent programming techniques to provide them with a complete understanding of computer systems.

Computer Information Systems, M.S.
The computer information systems program is for students interested in a career in information technology. In particular, those students who have a bachelor’s degree in another field. The course work provides students with a strong background in the use and development of computer software and systems and prepares them for employment with information technology companies.

Computer Science, B.S.*, M.S., Ph.D.
Computer scientists are deeply involved in activities that are essential in our modern civilization. These activities include basic research, design, development and testing of software and information systems that serve society. Professionals in computer science design and develop computer systems that are, insofar as possible, free from defects and protected from misuse that would harm the health or welfare of society or the environment. Computer science students may gain valuable experience in the development of highly advanced solutions for global computer security through the Harris Institute for Assured Information, which was founded by a grant from Harris Corporation.

*The College of Engineering and Computing has nine programs accredited by ABET (www.abet.org).
The undergraduate programs accredited by the Engineering Accreditation Commission of ABET are aerospace engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, mechanical engineering, ocean engineering and software engineering. The undergraduate computer science program is accredited by the Computing Accreditation Commission of ABET.

F.W. OLIN ENGINEERING COMPLEX:
This advanced complex houses the College of Engineering’s departments of electrical and computer engineering, chemical engineering, civil engineering, computer sciences, mechanical and aerospace engineering and the engineering management program. The three-story facility has 26 specialized research and teaching laboratories, including a 145-seat multimedia lecture hall.

HARRIS CENTER FOR SCIENCE AND ENGINEERING:
The 27,723-square-foot Harris Center for Science and Engineering, made possible by a unique partnership between Florida Tech and Harris Corporation, houses the Harris Institute for Assured Information, which is designed to research innovative solutions to global information security problems. The three-story facility also includes space for biological sciences and computer sciences.

COOPERATIVE EDUCATION
The ProTrack Co-op program in engineering and applied sciences is a four-year hybrid program integrating up to three units of professional-level work experience with a combination of on-campus and online learning. ProTrack is open to all College of Engineering majors and is coordinated in partnership with Florida Tech’s Career Management Services office. Visit www.fit.edu/co-op for more details.
SENIOR DESIGN PROJECTS

The hallmark of a Florida Tech bachelor’s degree in engineering is the senior design project. For this capstone requirement, student teams collaborate to design, fund and build a prototype, as well as present at conferences and compete in regional and national competitions. Students have worked together to complete:

- A full-scale rocket launch
- A human-powered submarine
- A concrete canoe
- An off-road Mini-Baja racer
- An underwater tracking device
- A mini formula 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 above-land and underwater research aircraft
- An aircraft that can take off and land vertically and fly horizontally

DESIGNING THE FUTURE

The 11,500-square-foot Harris Student Design Center serves College of Engineering and College of Science seniors completing capstone design projects. In the building’s high bay space, student teams fabricate and assemble a variety of projects, from unmanned submersibles and race cars to lunar excavation robots.

The facility offers:
- Spray booth
- Welding stations
- Parts cleaning and acid etching area
- 2.5 ton overhead crane
- Project storage space
- Four electronics/project team rooms

The Harris Student Design Center, or “PantherWorks,” as it has been nicknamed by the College of Engineering, also includes meeting rooms to facilitate ideation and planning among student teams.
**Construction Management, B.S.**
The main objective of the construction management program is to provide an education that will lead to a leadership role in the construction industry, while preparing students to become responsible members of society. The curriculum is responsive to current social, economic and technical developments in the field of construction and reflects the application of evolving knowledge in construction and the behavioral and quantitative sciences. The program incorporates current and developing curricula that reflect evolving changes in construction technology and management trends, and the goals of the program closely reflect the needs of society and the construction profession.

**Earth Remote Sensing, M.S.**
Earth remote sensing is the science, engineering and art of quantitative measurement from satellites, aircraft, marine vehicles, buoys and moorings, radar and other platforms removed from the target. It includes understanding the instrumentation, software, radiative transfer, hydro-acoustics and principles of systems designed to acquire, process and interpret information about Earth for application to vital contemporary problems in agriculture, coastal zone management, ecology, engineering, environmental science and resource management, forestry, land use, meteorology, natural hazards, oceanography, urban planning and other issues.

**Electrical Engineering, B.S.*, M.S., Ph.D.**
The electrical engineering program provides a total learning experience to expose the entire spectrum of electrical engineering concepts from the basic building blocks of transistors and gates, through communications, control, electromagnetic, computer and photonic systems. Students design, build and test complete systems as part of their curriculum.

**Engineering Management, M.S.**
Engineering management has been developed to meet the professional needs of the engineers and scientists who, although working in a technical field, find it necessary to update their skills in engineering and science, as well as acquire knowledge of the management of engineering.

**Engineering Technology, B.S.**
The B.S. in Engineering Technology is a practitioner's degree focused on product design, manufacturing, testing and improvement from an engineering viewpoint. The program concentrates less on theoretical underpinnings and more on the practical aspects of engineering. This prepares students to find practical solutions to engineering problems. The degree is offered with two engineering concentrations: Mechanical Engineering Technology and Electrical Engineering Technology. These two options will focus primarily on providing students with outstanding hands-on laboratory experiences specific to engineering technology by highly trained faculty. These experiences will be extremely useful in solving real-world engineering problems.

**Environmental Resource Management, M.S.**
Recognizing the multidisciplinary needs, the environmental resources management program is closely related to the environmental science program and includes both course work and an internship with a regulatory agency or private company involved in environmental resource management.

**Environmental Science, B.S., M.S., Ph.D.**
Environmental scientists analyze the relationship between human activities and the environment. Students have the opportunity to pursue careers and advanced academic studies in the use, control and preservation of the environment. Students learn to create improvements that will enhance the quality of life for all species. Courses are based in chemistry, biology, physics, mathematics and basic environmental sciences.

**Flight Test Engineering, M.S.**
Working with systems engineers, flight test engineers ensure the safety of test flying the latest technology. Working alongside test pilots, students advance their knowledge of flight operations and help propel the aviation industry toward higher technological advancement. Students gain hands-on experience creating, analyzing and refining complex flight technology. Flight test engineering students have backgrounds in aerospace engineering, mechanical engineering as well as electrical engineering.

**General Engineering (first year non-degree program)**
A bachelor's degree student who wishes to postpone the selection of a specific engineering major may enroll for up to one year as a general engineering student. The curriculum is designed to allow students more time to become familiar with all College of Engineering academic programs.

**Information Assurance and Cybersecurity, M.S.**
The Master of Science in Information Assurance and Cybersecurity offers students with technical backgrounds the opportunity to pursue advanced studies in information assurance and cybersecurity. The program is designed for students with bachelor's degrees in computer science, computer engineering or a related discipline, as well as professionals seeking to improve their skills.

**Mechanical Engineering, B.S.*, M.S., Ph.D.**
Mechanical engineers, with the aid of computers and mathematical models, create new machines and energy systems to help accomplish our ever-increasing goals of performance and efficiency in all areas of human endeavor. Mechanical engineers are deeply involved in the research, development, design and testing of materials, structures and machines for the generation of power, for transportation and for the production of electricity by the conversion of energy from various sources including chemical, nuclear, solar and geothermal. The program also includes the conception and design of all types of machines that serve humans and their many needs; construction and operation of

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production machinery for the manufacture of materials and consumer products; and instrumentation, control and regulation of these and other types of manual and automatic mechanical systems.

Ocean Engineering, B.S.*, M.S., Ph.D.
Ocean engineering applies traditional engineering disciplines—civil, mechanical and electrical engineering—to the coastal and ocean environment. An ocean engineer has the opportunity to work in a wide range of fields including the design and construction of ships, boats and submersibles; coastal structures for beach erosion control; ports, harbors and marinas; offshore systems for the oil industry; renewable energy systems; fisheries and aquaculture; and coastal and oceanographic instrumentation and monitoring systems.

Oceanography, B.S., M.S., Ph.D.
Oceanographers explore the implications of man’s activities near, around and within the oceans of the world. This profession includes the study of ocean waves, coastal erosion, planktonic organisms, and pollution identification and control. Students will use the school’s research vessels to gather data in estuarial and coastal waters for classroom and laboratory work. The B.S. in oceanography offers five program concentrations:

- **Biological Oceanography:** Provides training in all areas of oceanography with emphasis on biological aspects. Advanced courses in biology supplement those in oceanography.
- **Chemical Oceanography:** Includes practical training in marine and environmental chemistry. Advanced courses in chemistry supplement those in oceanography.
- **Coastal Zone Management (CZM):** Provides training in all areas of oceanography, while providing knowledge of decision-making and management concepts.
- **Marine Environmental Science:** Offers a flexible curriculum that can be tailored to meet specific educational/professional goals within the broad field of marine science.
- **Physical Oceanography:** The most quantitative concentration, it includes advanced courses in mathematics and engineering as well as oceanography.

The M.S. in oceanography offers five program concentrations: biological oceanography, chemical oceanography, coastal zone management, geological oceanography and physical oceanography.

Software Engineering, B.S.*, M.S.
Software engineers specify, design, implement, test and maintain computer software. Software engineers are professionals who develop computer systems that are, insofar as possible, free of defects and protected from misuse. Starting from a thorough preparation in mathematics, computer science and computer organization, students learn how to implement and manage the development of software products. Software engineering students may gain valuable experience in the development of highly advanced solutions for global computer security through the Harris Institute for Assured Information, which was founded by a grant from Harris Corp.

Systems Engineering, M.S., Ph.D.
Systems engineering prepares practicing engineers and graduates in engineering science, computing or mathematics in integrating components or subsystems of an overall system, while maintaining system-level technical feasibility, minimizing cost and meeting delivery schedules. System engineering enables practitioners in viable system design, development and integration.

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The undergraduate programs accredited by the Engineering Accreditation Commission of ABET are aerospace engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, mechanical engineering, ocean engineering and software engineering. The undergraduate computer science program is accredited by the Computing Accreditation Commission of ABET.

School of Human-Centered Design, Innovation and Art
http://shcdia.fit.edu

Human-Centered Design, M.S., Ph.D.
These human-centered design programs provide advanced education, professional and research opportunities to the students enrolled. The master’s program includes both thesis and non-thesis options for students with bachelor's degrees, while the Ph.D. program is designed for students with masters degrees. Most students come from engineering, science and human factors backgrounds, but students with arts and architecture degrees are encouraged to apply. On completion, the students can conduct independent scholarly work, teach in academia or pursue advanced research careers in government, commercial or private sectors. Current research includes cognitive engineering, life-critical systems, complexity analysis for HCD, human-centered organization design and management, modeling and simulation, advanced interaction media, creativity and design thinking, functional analysis, industrial design, and usability engineering.

FASTTRACK MASTER’S DEGREE PROGRAMS

Florida Tech offers highly motivated undergraduate students the opportunity to complete both a bachelor’s and master’s degree in five full years of study through one of our FastTrack Master’s Degree Programs. The university currently offers the following FastTrack programs:

- B.S./Master of Arts in Teaching
- B.S./Master of Science in Aviation
- B.S./Master of Business Administration
- B.S./Master of Science in Computer Science
- B.S./Master of Science in Engineering
- B.S./Master of Science in Global Strategic Communication
- B.S./Master of Science in Psychology
- B.S./Master of Science in Science

Florida Tech offers a 4+1 MBA track for students whose undergraduate major is outside of the majors offered in the Nathan M. Bisk College of Business. Students can satisfy some, or all, of the core course requirements through free electives, social science electives and business or technical electives, as required in their major program of study. In some cases, an extra course will be required for one semester to complete the four core courses. The students may then complete the MBA requirements in one additional calendar year (three consecutive semesters).
RELATED MAJOR OPPORTUNITIES

You might think that mechanical engineering is the only field related to the motorsports industry, but that’s far from the truth. Consider the aerospace engineering, physics and aviation science skills that go into designing an aerodynamic auto body. It takes marketing, accounting and management know-how to enhance a race team’s revenue.

Experience in psychology helps when choosing the right driver or gathering a great crew. A degree in math or computer science would be an excellent asset for a race analyst. Plus, think of all the creative work—audio, video, web and social media—that goes into every event. That’s where communication and humanities majors come in.

Florida Tech Racing

Only at Florida Tech is it possible for you to get an internship with leading jet dragster company, Larsen Motorsports. Here you have the unique opportunity to work alongside Elaine and Chris Larsen—getting hands-on experience in everything from business to engineering—in their world-class research, design and fabrication center.

Meet Our Driver: Elaine Larsen

“I am really excited to drive the Florida Tech jet dragster, not only because I expect to bring my championship abilities to this great team, but also because this will allow me the opportunity to showcase to the world all of the hard work and dedication of students and faculty at Florida Tech.”

LARSEN IS PRESIDENT OF LARSEN MOTORSPORTS AND A TWO-TIME IHRA JET DRAGSTER WORLD CHAMPION. SHE HAS MORE THAN 20 YEARS OF RACING EXPERIENCE AND SERVES AS AN AMBASSADOR FOR STEM EDUCATION.

FLORIDA TECH JET DRAGSTER: FAST FACTS

- Engine: General Electric J-85
- Fuel Economy: 2 gallons per second
- Fuel: Jet A
- Fuel Capacity: 25 gallons
- Range: ¼ mile
- Horsepower @ RPM: 5,000 @ 16,700 rpm
- Speed: 0-60 in 0.8 seconds
- Seating Capacity: 1

RELATED MAJOR OPPORTUNITIES
“I love studying aerospace engineering at Florida Tech because a lot of the professors I work with have done tons of work with satellites and space shuttles, and that’s what I’m interested in. It’s easier to relate to them when we have common interests.”

Babacar Dilindi
Aerospace Engineering ’15
France

Meet and Study With Other Students From Around The World

Florida Tech offers students not only the ability to study in the United States but also learn in a truly international and global environment. With students attending from over 100 different countries outside of the U.S., you won’t have to worry about fitting in.
Academic Programs

College of Psychology and Liberal Arts
http://cpla.fit.edu

Applied Behavior Analysis, B.S., M.S.
Applied behavior analysis (ABA) is the application of learning principles to change behavior that will improve people’s quality of life and help them attain meaningful outcomes. Even though many ABA professionals work with children, in particular those with autism and other disabilities, they also work with adults and organizations. Examples of areas of practice include health-related behaviors, athletic performance, employee performance and behavior-based safety. The ABA undergraduate concentration prepares students for graduate programs in ABA and provides them with some of the requirements needed for certification in behavior analysis. The ABA concentration prepares students to pursue certification as a Board Certified Assistant Behavior Analyst (BCaBA), which is internationally recognized. Florida Tech graduates are able to successfully compete for the myriad jobs currently available. The graduate program in applied behavior analysis is fully accredited by the Association for Behavior Analysis International (ABAI).

Applied Behavior Analysis and Organizational Behavior Management, M.S.
The intensive double degree of ABA and OBM provides graduates with the skills and credentials to work in clinical or human service settings, business and industry. It also prepares graduates to work as consultants, or in managerial or administrative positions.

Behavior Analysis, Ph.D.
The mission of the behavior analysis doctoral degree program is to produce competent behavior-analytic researchers, instructors and practitioners who are solidly grounded in basic principles derived from the experimental analysis of behavior (EAB), who will continue to contribute to behavioral research and inform their practice with current research findings, and who are prepared to obtain academic and professional positions. Graduates are well-prepared to pursue academic positions, to continue active research programs and to effectively manage behavior analysts under their supervision, both in research and practice.

Clinical Psychology, Psy.D.
A service-oriented degree emphasizing clinical skills, this program is based on a practitioner/scientist model. It includes supervised experience in testing, diagnosis, counseling and therapy, and research projects related to special fields of interest. Before completing the doctorate, students complete one year of supervised internship training. Graduates are licensed throughout the United States and hold positions of responsibility in mental health clinics, hospitals, medical centers and independent practice. The Doctor of Psychology, Clinical Specialization, is accredited by the American Psychological Association.

Forensic Psychology, B.A.
The B.A. in forensic psychology is a unique program designed to provide knowledge and skills in preparation for careers in several areas of criminal justice in the context of a firm foundation in basic psychology. Graduates of this program can pursue careers in criminal justice professions, such as crime analysts, police or probation officers and victim advocates, and in nonprofit and social service agencies that coordinate efforts with legal/justice systems, such as domestic violence shelters and victim’s rights groups. Some graduates may choose to pursue graduate study in criminal justice, forensic psychology, criminology or law.

General Studies (first year non-degree program)
The general studies program provides a common freshman year curriculum for students planning to major in communication, humanities, psychology or business, but who are uncertain about which major to choose. Courses representative of these majors are taken during the freshman year, allowing students to obtain a general understanding of each area of study.
Global Strategic Communication, M.S.
The Master of Science program in global strategic communication stresses the development of practical, career-oriented written, oral and analytical skills necessary for success in business, industry and management, and in a wide variety of technical and professional contexts. The degree program combines theory and document analysis with practice in generating written documents in a wide variety of forms and styles—from research-based papers and academic articles to formal reports and proposals; revising and editing technical, scientific and managerial documents for a variety of professional purposes; constructing and delivering business and technical presentations; designing and publishing professional-quality documents; and problem solving and communication-oriented decision making in collaborative team environments.

Humanities, B.A.
A basic goal of humanities is to bridge academic sciences and literature, history, philosophy, language, ethics, logic and fine arts. However, students will also receive the added dimension of mathematics, science and computer technology for the proper mix needed to become a sensitive and productive member of today’s technological society. This program requires a 650 TOEFL score for admission (if your native language is not English) in addition to standard admission requirements. The humanities prelaw option offers the courses needed to meet the entrance requirements of law schools. Undergraduates selecting this degree program are able to gain a thorough grounding in a variety of academic disciplines applicable to graduate study in law.

Industrial/Organizational Psychology, M.S., Ph.D.
Industrial/organizational (I/O) psychology is concerned with applying professional skills and focusing scientific research on problems people encounter at work. The industrial/organizational programs at Florida Tech follow the scientist-practitioner model of graduate training, emphasizing the development of research skills, knowledge of I/O theory and techniques, and applied experiences.

Multiplatform Journalism, B.S.
The multiplatform journalism program prepares qualified professionals for the significantly transformed and evolving global job market in the mass communication field. The communication and technology-related skills, as well as the conceptual knowledge that students will acquire in the program’s courses, will help both aspiring journalists and those on a different professional paths to function more effectively in today’s global economic environment.

Psychology, B.A., B.S.
If you are interested in human behavior, Florida Tech offers one of the most comprehensive psychology programs. The undergraduate program offers concentrations in animal learning and behavior, applied behavior analysis, clinical psychology, industrial/organizational psychology, social-cultural psychology, and sport psychology. You may also design your own concentration to pursue graduate and/or professional studies in medicine, law, business or experimental psychology. Florida Tech offers both a Bachelor of Science and a Bachelor of Arts at the undergraduate level.

Organizational Behavior Management, M.S.
Organizational behavior management (OBM) is applied like traditional industrial/organizational (I/O) psychology, but is behavioral rather than cognitive or eclectic. It is analytic in that it relies on the systematic manipulation of environmental events and on directly measuring and graphing behavior (rather than reliance on written tests and interviews for assessment and evaluation). It is technological in that it precisely describes procedures in such a way that others can replicate them.

Strategic Communication, B.S.
The strategic communication program incorporates public relations, advertising, organizational communication and intercultural communication to enhance students’ abilities to communicate strategically and build favorable relationships with key stakeholders in a variety of fields. Creating and presenting messages strategically are essential in most business fields.

THE SCOTT CENTER FOR AUTISM TREATMENT
Florida Tech’s Scott Center for Autism Treatment pursues a three-fold mission of clinical service, research and training. Parents and children from around the world come to The Scott Center for the most advanced treatment methods available.
Academic Programs

College of Science

http://cos.fit.edu

Astrobiology, B.S.
An emerging and quickly growing field within the space sciences, astrobiology is the study of life in the universe, usually combining aspects of astronomy, biology and geology. This option is a rigorous, interdisciplinary program designed to meet the needs of students intending to pursue graduate education in astrophysics, biology and astrobiology.

Astronomy & Astrophysics, B.S.
Astronomy and astrophysics explores matter in outer space and the evolution of celestial bodies. From magnitudes, motions, distances and periods of revolution, students investigate the universe as a whole. This option is primarily designed for students intending to pursue graduate studies and a career in the astronomical sciences.

Biochemistry, B.S., M.S.
Biochemistry is both a life science and a chemical science—it explores the chemistry of living organisms and the molecular basis for the changes occurring in living cells. Students use the methods of chemistry and physics to study the structure and behavior of the molecules found in living cells and explore the ways these molecules interact to form cells, tissues and whole organisms.

Biological Sciences, B.S., M.S., Ph.D.
The biological sciences examine every aspect of living organisms, from the biochemical reactions involved in supporting cellular processes to the interaction of organisms with their environment. The Bachelor of Science in Biological Sciences seeks to educate students in unifying themes in biology, while encouraging them to expand their knowledge in more specialized subject areas. The curriculum is organized so that in the first two years students learn concepts fundamental to all biological sciences, and in the last two years, students follow their own interests in selecting courses that are more specialized.

The Master of Science (M.S.) degree in biology can be earned in one of four options: biotechnology, cell & molecular, ecology and marine biology. The purpose of the master of science degree is to prepare the student for either a professional career or for further graduate study. This goal is achieved through a balance of course work and research activities. The Doctor of Philosophy (Ph.D.) degree is offered for students who want to carry out advanced research in the biological sciences. A student’s research can encompass any area represented by a faculty member. The objective is to prepare the student at the highest academic level for a productive career in research, teaching and/or administration.

Aquaculture, B.S.
If you are interested in aiding the worldwide search for new food sources, then aquaculture is the field for you. Aquaculture teaches the theory and practice of finfish and shellfish culture and management. Following a solid foundation in chemistry, mathematics, physics and biology, you will take specialized courses in fish biology; crustacean, finfish, molluscan and algal aquaculture; fisheries management; and the pathology and parasites of fish and shellfish.

Biomedical Science, B.S.
The biomedical science program is designed for students interested in understanding the causes and treatments of human disease. Students learn about human physiology and genetics, and how a person’s genetic makeup and the environment can make alterations in cells that lead to illness. As one of Florida Tech’s premedical studies programs, it is appropriate for students interested in attending medical school and becoming physicians, and for students interested in veterinary medicine and allied health professions.

Biotechnology, M.S.
This program is a non-thesis program that incorporates Florida Tech’s unique location on the Atlantic coast and its established strengths in marine biology, marine ecology, natural products chemistry, molecular biology and biochemistry to provide a path for students who aspire to learn biotechnology and earn jobs in industry. Students are provided with a diverse combination of classroom experience, field studies, chemical and molecular biological techniques and development of communication. The goal of this training program is to produce individuals who have a strong interdisciplinary background in biology and chemistry and will be qualified to meet the needs of biotechnology in industrial or academic settings.

F.W. Olin Life Sciences Building
The F.W. Olin Life Sciences Building is home of the department of biological sciences. It contains eight teaching laboratories and 12 research laboratories that were designed with flex space for customizing the areas to meet the needs of specific activities.

F.W. Olin Physical Sciences Center
The F.W. Olin Physical Sciences Center houses the chemistry and physics and space sciences departments. The building provides 14 teaching and 21 research laboratories as well as faculty offices and laboratories to enhance the use of technology Chin teaching the physical sciences. The facility also includes two large multiuse lecture/demonstration classrooms, an astronomical observatory and is home to the 0.8-m Ortega telescope, one of the largest research telescopes in the Southeast. In the 3,500-square-foot high bay physics hall, students work on magnetic levitation launch systems and conduct high-energy physics research.
Cell & Molecular, M.S.
Cell and molecular biology provides training in genetic engineering and the other areas of molecular biology. The program is designed to produce graduates who are skilled in gene manipulation, protein and nucleic acid isolation and purification, nucleic acid hybridization and nucleic acid sequencing. Students completing the molecular biology program are qualified for employment in the rapidly growing industry based on genetic engineering and molecular biology, or for entry into graduate study in this field.

General Biology, B.S.
General biology is a flexible program designed to prepare students for a career or graduate work in any of the biological fields including health, medicine, the Earth's environment and oceans.

Genomics and Molecular Genetics, B.S.
Whether you want to participate in the human genome project, explore the mysteries of antibiotic-resistant bacteria or become a leader in cancer research, you can get there with a degree in genomics and molecular genetics from Florida Tech. Here, you'll develop a strong background in biology and get hands-on experience in genetics and biotechnology.

Marine Biology, B.S., M.S.
Marine biology spans a broad range of biological investigations, including the study and experimental use of fish, crustaceans, corals, mollusks, sea grasses, algae and echinoderms. Concentration is placed on marine organisms, their characteristics, interrelationship and interactions with the marine environment.

Marine Conservation, B.S.
Florida Tech's marine conservation program is an interdisciplinary field of study combining marine biology and ecology with courses in resource economics and mass communication. Graduates of the program are prepared to face the challenges associated with climate change and invasive species, while informing the public and educating policy makers.

Biomathematics, B.S.
Mathematical biology (biomathematics) is a highly interdisciplinary program at the intersection of mathematics, biology and computer science. The program is offered through collaboration between the mathematics and biology departments. The interdisciplinary nature of the program enables undergraduates who are interested in combining mathematics, computer science and biology to be more competitive for graduate programs and careers in bioinformatics, biostatistics, biomedical engineering, biomathematics or medicine.

Chemistry, B.S., M.S., Ph.D.
A major focus of Florida Tech's research expansion is the growing chemistry department, which offers programs leading to master's and doctoral degrees in chemistry. The faculty is a young, active group dedicated to research and the training of students. The department's moderate size allows the faculty to provide research students with a level of individual guidance that is not often available in larger programs. Today, there are many exciting career opportunities open to the professional chemist. General chemistry is the right option for undergraduates who want to add electives during their senior year. Florida Tech's program in general chemistry exceeds most graduate school entrance requirements. The undergraduate program in chemistry is accredited by the Committee on Professional Training of the American Chemical Society.

Preliminary Chemistry, B.S.
This option is designed for the student interested in a solid background in chemistry in preparation for a career in medicine or a related professional field. The curriculum includes all required course work to make the student competitive for admission to medical, dental or veterinary schools. The advisor to this program provides up-to-date information on admission requirements for most of those schools as well as admission test information.

Research Chemistry, B.S.
Research chemistry is ideal for students who intend on pursuing an advanced degree or a job in chemical research. This program includes a full year of undergraduate research.

Conservation Technology, M.S.
The master's in conservation technology is designed to provide the toolkit of experience and techniques most sought-after by employers. Environmental consulting is expected to be one of the fastest growing industries in the next decade. Likewise, the responses of governmental and non-governmental organizations to ongoing environmental issues such as climate change, habitat loss and water pollution will lead to many job opportunities. International markets in fish and meat will increasingly require genetic identification of produce to determine that it is what it claims to be and not from an endangered species. The Master of Science in Conservation Technology prepares the student either for a professional career or for further graduate study. This goal is achieved through a balance of course work and research activities.
**Education, M.Ed.**

Designed for working professionals who seek to further their education and enhance their teaching practice, this degree program is appropriate for teachers at any grade level and in any subject matter area. This program is designed to help teachers expand their knowledge of relevant educational foundations, theory, method and research, as well as their ability to relate and apply these to teaching and schooling practices.

**Educational Technology, M.S.**

Educational Technology is designed for all teachers who want to further their education in the use of computers in school. It is appropriate for teachers at any grade level and for any subject matter. The curricula are designed for students with minimal background in computers. The goal of the program is to enable a teacher to 1) teach introductory computer science, computer literacy and programming; 2) use computers in a wide variety of school settings; and 3) evaluate and create educational software materials.

**Elementary Science Education, M.Ed.**

Designed for the elementary school teacher, this program focuses on the theory and practice of teaching, and provides professional development that is applicable to teaching science in the elementary classroom.

**Environmental Education, M.S.**

The master's degree in environmental education is for individuals with experience and/or active interest in formal programs (schools) and nonformal programs (nature/environmental centers, parks, gardens, zoos and museums). The program is designed to provide graduate studies with environmental content as well as to expand and improve environmental education skills.

**General Science (first year non-degree program)**

A bachelor's degree student wishing to postpone the selection of a major may enroll for up to one year as a general science student. This curriculum is designed to allow students more time to become familiar with programs in the life sciences and physical sciences offered by the College of Science.

**Interdisciplinary Science, B.S., M.S.**

Because of the increasing importance in our daily lives of science and technology, Florida Tech has recognized the need for an interdisciplinary program in the sciences that allows students to enroll in a wide variety of science and engineering courses, supplemented by certain core courses and several carefully chosen electives. The most important characteristic of this degree is that it is flexible and tailored to meet the individual student's needs. Aeronautics options are available.

**Mathematical Sciences, B.S.**

The mathematical sciences program is interdisciplinary. Applications of mathematics routinely occur in engineering, science and industry. The curriculum includes courses in mathematics as well as applied courses from related departments. Students can choose electives to apply mathematics to engineering, the physical sciences, biological sciences, environmental studies, social sciences and business applications. Mathematics graduates are prepared to pursue graduate work or take their place in industry alongside engineers and scientists.

**Applied Mathematics, B.S., M.S., Ph.D.**

The applied mathematics program includes courses with extensive theoretical content, as well as applied courses from related departments. Students can choose electives that will enable them to apply mathematics to engineering, the physical sciences, biological sciences, environmental studies, social sciences and business applications. Mathematics graduates who have completed the program are prepared to pursue graduate work or take their place in industry along with engineers and scientists.

The master's program in applied mathematics is designed to produce mathematicians with competence in analysis, and who have breadth and versatility in mathematics and its applications in related fields. The doctoral program is designed to produce mathematicians with a broad background in analysis and a strong field of specialization in nonlinear analysis, applied analysis or numerical analysis and scientific computing. This combination of training will prepare you for a career in a variety of areas, such as government or industrial research, or academic research and training.

**Mathematics Education, M.S., Ed.S., Ph.D.**

Mathematics education offers curricula for the beginning and advanced mathematics teacher. Courses will complement previous educational experience and are aimed specifically at mathematics teaching. Recipients of the doctoral degree will gain the appropriate skills for positions in college and university mathematics education programs; teaching, administration and supervisory posts in state and local school systems; and research directors in mathematics education.

**Meteorology, B.S., M.S.**

Meteorology students at Florida Tech enjoy a prime environment for studying tropical systems and other weather phenomena. Florida is the lightning capital of the United States, and weather conditions may be conducive to meteorological events such as hurricanes and tornadoes. Students completing the meteorology requirements are eligible for certification as professional meteorologists by the American Meteorological Society and the U.S. Office of Personnel Management and are qualified for entry into positions with the National Weather Service.

**Physics, B.S., M.S., Ph.D.**

Physics is the discipline most directly concerned with understanding the physical world on a fundamental level. As such, it covers an extremely broad range of subjects and areas of specialization that seek to unify and understand this diversity in terms of the smallest possible number of laws and principles.

**Premedical, B.S.**

This program offers the courses needed to meet the entrance requirements of most schools of medicine, dentistry, osteopathic medicine, podiatry and optometry as well as the nonagricultural courses for veterinary medicine.

**Planetary Science, B.S.**

Emphasis in the curriculum is on achieving a broad yet rigorous education in the basic physical, mathematical and engineering sciences as a foundation for successful entry into any of the many subfields of modern space science activity. This program is designed to meet the needs of students intending to pursue graduate education in the solar physics, geophysical sciences, planetary sciences or careers in the aerospace and space science related industries.

**Science Education, M.S., Ed.S., Ph.D.**

Teaching science to young developing minds is a rewarding career. With this program, students can choose a field of teaching from these options: biology, chemistry, computer science, earth/space science, general science and physics. Every science education program includes hands-on teacher training to fully equip students for the challenges as an educator in schools, or at botanical gardens, museums, theme parks, zoos and other areas of scientific interest.

**Space Sciences, M.S., Ph.D.**

The space sciences curriculum is a flexible program designed to prepare students for careers in the aerospace industry, academia and space research. Students focus on gaining a comprehensive understanding of the physical universe, from the structure of the sun to the nature of the universe as a whole. The curriculum brings together a wide variety of disciplines such as astronomy, planetary atmospheres, space plasma physics, chemistry, computational physics, orbital mechanics and planetary geophysics.
**STEM Education, B.S.**
To answer national concerns about the quality of K–12 education in these vital areas, and to attract a wide range of science and mathematics majors into secondary teaching careers, the Bachelor of Science in STEM Education at Florida Tech prepares students on how to become a teacher in high school science, technology, engineering or math.

**Sustainability Studies, B.S.**
Sustainability professionals use combinations of interdisciplinary skills to create and manage complex social, environmental and economic systems within a wider array of occupations. The program curricula expands on Florida Tech’s well-known science and technology strengths and adds a unique combination of business and social science courses to produce unusually well-rounded graduates who can operate across multiple disciplines in the workforce.

**Teaching, M.A.**
The Master of Arts in Teaching (M.A.T.) program is a post-baccalaureate program for individuals with bachelor’s degrees in content areas, who are either current teachers with three-year temporary teaching certificates or are planning to enter the teaching field. The program is designed to help students earn an advanced degree while also completing course work that can lead to Florida teacher certification. It consists of a minimum of 32 graduate semester hours.

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**Florida Tech is home to the ... Buzz Aldrin Space Institute.**
Led by Apollo 11 astronaut Buzz Aldrin, the institute supports commercial and international research and development with the goal of establishing a settlement on Mars.
With academic portfolios that place them among the top researchers in their fields, our more than 230 full-time faculty members are constantly developing programs and opportunities to benefit undergraduate students.

Florida Tech’s 9:1 on-campus student-teacher ratio means small classes where you’ll receive an uncommon level of interaction. You’ll get to know your professors, and they’ll help you chart a path straight toward the career you want.

AT FLORIDA TECH, WE ATTRACT PROFESSORS WHO MAKE A DIFFERENCE.

Munevver Subasi, Ph.D.
Mathematical Science
Research areas: primarily in the area of stochastic programming, including two-stage/multistage problems with probabilistic constraints, the convexity theory of probabilistic constrained stochastic programming problems, probability bounding problem, and multivariate discrete unimodality. She is currently analyzing breast cancer and lung cancer datasets to identify combinations of molecular and clinical features that are highly correlated with cancer patient outcome.

Julie Costopoulos, Ph.D.
Psychology
Research areas: therapeutic treatment approaches with violent offenders and the mentally ill, reduction of academic dishonesty through adaptive authority styles in the classroom, and integrated programs addressing violence in many environments.

Daniel Batcheldor, Ph.D.
Physics and Space Sciences
Research areas: galactic dynamics, kicked black holes, supermassive black holes and space-based astronomy. Through his research, Dr. Batcheldor has successfully developed and deployed a charge injection device aboard the International Space Station.

Daniel Kirk, Ph.D.
Mechanical and Aerospace Engineering
Research areas: Rockets, combustion and blast injury.
“We get tremendous value and input from our undergraduate students, and they receive unique training, opportunities and connections to either prepare for the workplace or for graduate studies.”

Syed Murshid, Ph.D.
Electrical and Computer Engineering
Research areas: Holds a U.S. patent for his ground-breaking work in spatial domain multiplexing for fiber optics.

John Deaton, Ph.D.
Aeronautics
Professor and chair of the Aviation Human Factors program and director of research for the College of Aeronautics. He spent two weeks living and working at the Mars Desert Research Station (MDRS) in Utah.
Robert Weaver, Ph.D.
Ocean Engineering
Research areas: Coastal engineering, storm surge analysis and hydrodynamics. Dr. Weaver blends classroom course work with surfing to demonstrate force balances, buoyancy and hydrodynamic drag. His students can even get their feet wet collecting data on one of the customized surfboards in the class.

Wanfa Zhang, Ph.D.
Arts and Communication
Research areas: Quantitative study of international conflict, international relations theory, security issues in the Asia-Pacific region, geopolitics and comparative politics with a regional focus on Asia, Chinese politics and foreign policy.

Michael Grace, Ph.D.
Biological Sciences| Associate Dean, College of Science
Research areas: Experimental neuroscience, animal behavior, cell biology, genetics and biochemistry.

David Wilder, Ph.D.
Psychology
Dr. Wilder conducts research in severe behavior disorders, organizational behavior management and applied behavior analysis.

Enrique Perez, Ph.D.
Business
Dr. Perez is working to advance our understanding of the determinants and outcomes of public/private health care issues and global health care concerns.

Julie Moore
Assistant Professor of Aviation Sciences and U.S. Air Force Reservist who pilots F-16’s
“I tell my students about the F-16 in my aero classes—aerodynamics, advanced aircraft systems and instrument procedures—so it’s neat for them to see it up close and personal with me, showing them hands-on what I may have talked about in class.”

Wanfa Zhang, Ph.D.
Arts and Communication
Research areas: Quantitative study of international conflict, international relations theory, security issues in the Asia-Pacific region, geopolitics and comparative politics with a regional focus on Asia, Chinese politics and foreign policy.

Hakeem Oluseyi, Ph.D.
Physics and Space Sciences
Currently leads a research group that hacks stars to understand the fundamental interactions of plasmas and electromagnetic fields, develop new in-space propulsion technologies and investigate Galactic structure and evolution.

“Communicating the scientific process and the results of modern science to students and the public is one of my passions. I currently appear regularly in eight television series and have offered scientific expertise to news programs on CNN, NBC, MSNBC, and Fox News.”
As a private university, Florida Tech is constantly investing in its faculty, facilities and programs in order to provide each student with an educational experience of the highest quality.

HERE, RESOURCES TRANSLATE TO OPPORTUNITIES.

In other words, you get what you pay for. You get strong academic programs, all of which include hands-on experience and portfolio-enhancing senior-year projects.

You get professors who bring their research into the classroom and their teaching into the field.

And you get peace of mind knowing that your program is secure, strong, regionally accredited and will lead to a degree that will be valued by future employers.

Recent graduates report a 97% rate of success in finding a job, enrolling in graduate school, enlisting in military service or pursuing another avenue of choice.

Of those employed, 86% are working in a field directly related to their major and 65% are earning more than $50,000 per year.

However you define success, Florida Institute of Technology can help you achieve it.

COMPANIES RECRUITING OUR STUDENTS AND EMPLOYING OUR GRADUATES.

Advanced Micro Devices
AirTran Airways
Amazon
American Airlines
American Megatrends Inc.
BellSouth
Black and Decker
Brookhaven National Lab
California Institute of Technology
Carnival Cruise Lines
Computer Associates International
Corning Glass Works
Delta Airlines
Dow Chemical USA
Duracell
Environmental Protection Agency
Federal Bureau of Investigation (FBI)
General Electric
Goodyear Tire and Rubber Company
Google
Guardian Industries
Harbor Branch Oceanographic Institute
Harris Corporation
Hewlett-Packard
Intel
JC Penney
JetBlue Airways
Kellogg’s
Kraft Foods
Lockheed Martin
Los Alamos National Laboratories
M&M/Mars Inc.
Merrill Lynch
Microsoft
Motorola
NASA Kennedy Space Center
Niagara Mohawk Power Corporation
Northrop Grumman
Northwest Airlines
Omni Corporation
Pfizer Pharmaceuticals
Qatar University
Rockwell Collins
Samsung
Saudia Airlines
SeaWorld
SpaceX
Sprint
Texaco
Texas Instruments
United Airlines
United Technologies
Universal Studios
University of Massachusetts
Verizon
Walt Disney World
Waste Management Inc.
Sunita Williams ’95 M.S.  
Engineering Management  
Astronaut Sunita Williams holds the record for the longest space-flight for female space travelers. She has accumulated a total of 195 days in space as a crewmember on STS-16 and 17 and aboard the International Space Station Expeditions 14 and 15. She chose Florida Tech for her graduate studies because of the university’s strong reputation.  
“Florida Tech is very professional. They have high standards.”

Mert Kutlu ’10  
Aeronautics  
joined Turkish Airlines in September 2011 at the tender age of 22. He was the youngest first officer with the company. At 25, he was the youngest senior first officer, on track to become the company’s youngest captain in two to three years.

Stephanie Link ’08  
Psychology  
Employer: Gulfarium Marine Adventure Park  
Job Title: Marine Mammal Trainer  
“I work with a team of animal trainers to ensure the health and well-being of the Gulfarium’s marine animal population. Being hired for a position in the marine mammal field is a big achievement. It is a highly competitive field with very few job openings.”

Amy Fenwick Reaume ’08  
Biological Sciences/Aquaculture  
Employer: Brevard Zoo  
Job Title: Conservation Coordinator  
“I have found my niche sharing a passion for wildlife conservation with our guests and the community. Florida Tech is a perfect partner for Brevard Zoo to aid in research that benefits our animal ambassadors, as well as their native habitats, and in situ conservation programs.”

Ibrahim Albaloooshi ’01  
Mechanical Engineering  
Employer: Dubai Islamic Bank  
Job Title: Assistant Vice President/Regional Manager  
“I’m in charge of six branches within the cities of Ajman and Sharjah. I periodically track and evaluate the performance of the branches with branch managers to ensure the financial achievement of the set targets of the zone and business growth objectives.”

Mishaal Ashemimry, ’06, ’07 M.S.  
Aerospace Engineering and Applied Mathematics  
Employer: MISHAAL Aerospace  
Job Title: President & CEO  
“My fascination with space started while gazing at the stars in the Unayzah desert. Since then my focus has been to become an aerospace engineer and contribute to the development of space vehicles and rockets.”

Tiziano Bernard ’15, ’16 M.S.  
Flight Test Engineering and Human-Centered Design  
Flight Test Engineer & Licensed Pilot  
Research Assistant, HCDi  
Doctoral Student (Ph.D.), Florida Tech  
“What is most valuable and exciting is the first-hand experience: I directed a Martian Rover Project, I developed new airliner avionics, and I tested real airplanes for causes of loss of control. Florida Tech is the place to be—if you plan on improving our world.”

Winner of the 2015 Dr. Jerome P. Keuper Distinguished Alumni Award—recognizing an alumnus whose career accomplishments honor the university’s legacy of excellence.
Admission Information For All Applicants

Applying Online: www.fit.edu/apply
International students are encouraged to apply online anytime. Students completing online applications are still responsible for submitting all required supplemental credentials directly to the Office of Undergraduate Admission or the Office of Graduate Admissions.

Academic Records
Official transcripts are required for all students seeking admission to Florida Tech. The transcripts must come directly from each university, college or school a student attends and carry the official seal of the issuing institution. In the case where official transcripts cannot be sent at the time of application, international applicants are permitted to send or scan photocopies of the transcripts under ALL of the following conditions:
1. The photocopies are attested to by a duly authorized official as true duplicates of the original documents
2. Each page must carry the authorized seal of the official
3. All English translations must be attested to be true translations of the transcript

Foreign Credential Evaluation for International Applicants
All degree-seeking Melbourne and FIT Orlando international undergraduate and graduate applicants with any university-level educational experience outside the United States are required to provide the Florida Tech admission office an official foreign credit evaluation (FCE) in English, including the cumulative grade point average. Florida Tech Online and Virtual Site students, non-matriculating/transient students and students from Florida Tech-approved international partner institutions are excluded from this requirement.

Florida Tech will accept course-by-course foreign credential evaluations (FCE) from any NACES member (www.naces.org/members.htm), although, World Education Services (WES) is Florida Tech's preferred foreign credit evaluator. In addition to the FCE report, each applicant must also request official transcripts be sent directly to the admission office from all previous regionally accredited institutions. Admission decisions for applicants who do not submit a valid FCE report in English will be deferred until the Florida Tech admission office receives the report.

Students needing English translation of their academic documents may contact University Language Services (ULS) at www.universitylanguage.com/translation-academic-records. A WES evaluation/transcript can be ordered at www.wes.org. The site shows what students must provide and how much they will be charged. Students with foreign academic documents need to order course-by-course evaluations by WES.

A WES FCE report or other agency report is considered valid only if submitted electronically from WES directly to the Florida Tech admission office. WES will verify institutional accreditation status and complete an evaluation containing a description of credentials, including name, year awarded, name of institution attended and major of field of study. It also provides the U.S. equivalent for each credential and lists all postsecondary subjects with their corresponding value expressed in the terms of U.S. semester credit and grade equivalents. If an applicant requests a WES evaluation, an additional official transcript will not be required.

English Language Proficiency
English language proficiency is required of all students whose home language is not English and who are taking academic courses at Florida Tech. Evidence of English proficiency in the form of results from either an Internet-based Test of English as a Foreign Language (iBT), an International English Language Testing System test (IELTS), a Pearson Test of English Academic (PTE Academic), Kaplan or Cambridge English: Advanced must be submitted to the university. (See "Demonstrating English Proficiency" on page 28.)

Financial Documentation
Florida Tech strictly conforms to U.S. immigration laws concerning international students. Therefore, all admitted international students who intend to enroll must certify that they have funds to cover their expenses while attending Florida Tech by completing a Financial Certificate for their program of study. This includes students who have been awarded fellowships, scholarships or other university support. This information will be included on the international student's I-20 Form (the immigration document we send you to take to the U.S. consulate in your country in order to secure a student visa). International students must pay university tuition and fees prior to the beginning of each semester and are expected to have planned funding for the duration of their course of study.

Applying for a Student Visa
Once admitted, Florida Tech will send to each admitted international student documents required to obtain an I-20 Form with his or her official admission packet. To apply for a student visa, students must bring the I-20 Form, along with the following, to the U.S. Embassy or Consular Office:
• Updated/current bank letter verifying sufficient financial ability (no more than six months old)
• Passport
• Payment receipt of the SEVIS I-901 Fee
*The bank letter requirement will be waived for students who are being sponsored by a government and can provide a letter of expected financial support.

Paying the Student and Exchange Visitor Program (SEVIS) I-901 Fee
New students and exchange visitors with an I-20 Form or DS-2019 are required by the U.S. Department of Homeland Security to pay a SEVIS fee. Students who are subject to this fee and do not pay it will not be issued an F, M or J visa. This fee must be paid prior to one's visa appointment. Information about this fee and instructions on paying it can be found online at www.fmjfee.com.

For more information: http://admission.fit.edu/international/graduate/credential-evaluation.php
Financial Aid
www.fit.edu/financialaid

Undergraduate Scholarships
First-year students with complete admission applications on file will automatically be considered for the Florida Tech Scholarship Program.

Florida Tech Legacy Grant
Sons and daughters of Florida Tech alumni who enroll in a full-time undergraduate program at Florida Tech are eligible for a $2,500 grant. This award is renewable for up to four years. This award is given in addition to any merit scholarship earned by the student. Both students, enrolled at the same time, will receive this grant.

“Keep it in the Family” Grant
Sisters and brothers of students who are currently enrolled as full-time undergraduate students of Florida Tech are eligible for a $2,500 grant. This grant is renewable for up to four years. This grant is given in addition to any merit scholarship earned by the student. Both students, enrolled at the same time, will receive this grant.

Performance Grants
- Music
- Cheerleading
- Pep Band
- Dance Team
Awarded through Florida Tech’s music and athletic departments. Information is available at www.cpla.fit.edu/sac/music and www.floridatechsports.com.

Transfer Scholarships
Florida Tech will automatically review undergraduate transfer students who have a 3.0 GPA or higher for merit-based scholarships.

Athletic Scholarships
Florida Tech has a number of athletic scholarships for its NCAA Division II sports teams, but they are very competitive. Please contact the coach of your sport directly for further scholarship information. The coach directory is available online at www.floridatechsports.com.

Applying for Graduate Assistantships
(See Graduate Policy 4.11)
Graduate assistantships, both research and teaching, are available for domestic and international students. Awards of graduate assistantships are determined by each major department. There are two types of Graduate Student Assistantships (GSAs):

- Teaching Assistants (TAs) serve in many roles to help faculty teach both undergraduate and graduate lecture courses and laboratories. First-time TAs must attend a Teaching Assistant Seminar prior to beginning their assignments. In addition, there are specific, additional language proficiency requirements for TAs for whom English is not their home language. TAs must be formally evaluated (in writing) by their faculty supervisor as a condition for renewal of their award (normally once per academic year). These evaluations become a part of the TAs record.

- Research Assistants (RAs) work with faculty members on scientific and engineering research projects supported by governmental and private sponsors. In many cases, these projects are directly related to the student’s thesis or dissertation research. Formal evaluations are not required for RAs. Both TAs and RAs must maintain appropriate GPAs and continue full-time graduate studies in their disciplines in order to retain their assistantships. GSAs may receive a stipend, tuition remission or both as remuneration. Amounts vary and are determined by the departments. Students awarded a Florida Tech scholarship and a graduate assistantship may choose between either award. A student cannot receive both.

GRADUATE ASSISTANTSHIP REQUIREMENTS
International applicants who are interested in applying for a graduate assistantship are required to have:

a. GPA of 3.0 for master’s or 3.2 for doctoral student.

b. If the student’s home language is not English, evidence of proficiency for both written and spoken English must be provided, even if they are alumni of English institutions. Conditions are as follows:

i. For teaching assistants, an official Test of English as Foreign Language (TOEFL) score of at least 600, an equivalent score of at least 100 on the internet-based TOEFL (iBT) or a score of 7.0 on the International English Language Testing System (IELTS) is required.

ii. For research assistants, an official Test of English as Foreign Language (TOEFL) score of at least 550, an equivalent score of at least 79 on the internet-based TOEFL (iBT) or a score of 6.5 on the International English Language Testing System (IELTS) is required.

iii. For all newly admitted international graduate students, an official TOEFL, iBT or IELTS must be taken no more than two years before attendance at Florida Tech.

iv. The International Teaching Assistant Speaking Assessment (ITASA) with a passing score is required for all teaching assistants whose home language is NOT English.

c. All new teaching assistants are required to attend and successfully complete the three-day Teaching Assistant Seminar offered either at the beginning of fall or spring semesters before they are able to teach.

International applicants for a master’s or doctoral degree are considered for a scholarship on a rolling basis and are encouraged to apply considerably in advance of the admission application deadlines. All international students are encouraged to secure scholarships from external sources to help fund their education in the United States. International students may apply for on-campus employment and are permitted to work up to 20 hours per week.

Graduate Scholarships
Applicants for admission are considered for a Florida Tech Graduate scholarship, which is awarded based on academic merit. Scholarships are renewable annually. However, students may not receive both an assistantship and a scholarship.
“I chose Florida Tech for ocean engineering because of the amount of research going on in the field. You have options to specialize in seven different sectors for your course work. That’s exciting. No other university offers that.”

Vaibhav Aribenchhi
Ocean Engineering ’16
India
Information for Undergraduate Applicants

Admission Criteria
Applicants to Florida Tech must demonstrate the readiness to succeed in a challenging academic curriculum. Secondary school performance is the most important element of the undergraduate application. While no minimum average is specified, the student’s performance must indicate a readiness for college studies in a chosen academic program. For most programs of study, a strong background in science and mathematics is required. Scholarship opportunities are based on grade point average (GPA) and SAT/ACT/PAA.

Advanced Credit
Credit is awarded to undergraduate students for grades of four or higher in the International Baccalaureate (IB) program for higher-level exams and certain standard-level exams for IB diploma holders. Based on a review of the subject areas and scores, credit is also awarded for receiving a C or better on the British GCE examinations at the advanced level (A-level) or on the Caribbean Advanced Proficiency Examinations (CAPE) when two units are completed, and advancement placement examinations (AP) scores of 4 and higher. Refer to the Adv. Credit tab at http://admission.fit.edu/international/freshman-transfer for complete details. Credit is awarded by the Office of the Registrar upon receipt of original documents.

Required Grades
Based on the British system, or one that models such, students should have a minimum of five GCSE or IGCSE examinations (AP) scores of four or better, with an average of “B” or better. Based on the British system, or one that models such, students should have a minimum of five GCSE or IGCSE examinations (AP) scores of 4 and higher. Refer to the Adv. Credit tab at http://admission.fit.edu/international/freshman-transfer for complete details. Credit is awarded by the Office of the Registrar upon receipt of original documents.

Standardized Tests: SAT/ACT/PAA
Prospective applicants (non-transfer) who choose to sit for these exams should take either the SAT I, ACT or PAA exam and request that the results be sent to the Office of Admission at Florida Tech (School Code 5080).

Transferring to Florida Tech
Students applying to Florida Tech who have attended another college or university are considered transfer students.

Undergraduate transfer credits may be awarded for courses taken at an accredited international college or university that is recognized as being degree-granting by that country’s educational governing authority.

A student requesting transfer credit for academic work completed outside the United States must request that official transcripts (with dates and grades for all courses taken) from all previously attended institutions be sent directly to the Florida Tech Office of Undergraduate Admission. A transcript is considered official only when the issuing institution sends the transcript directly to Florida Tech’s Office of Undergraduate Admission or Office of the Registrar. Official course descriptions and/or syllabi are also required. In the case of transcripts and course syllabi that are not in English, official English translations are required. (See Foreign Credential Evaluation on page 24.)

While Florida Tech makes every effort to complete the official certification of transfer credit prior to the student’s arrival, regional accreditation guidelines allow one semester in which to complete this process. Transfer credit criteria mentioned in the above section apply to transfer credit from international institutions.

A student transferring from any college or university in the United States must submit a Transfer Eligibility Form completed by the international advisor at a student’s current school. The Transfer Eligibility Form is required for transfer students in order to issue an I-20. The SEVIS release date must be stated on the form.

For more information about transferring to Florida Tech, visit admission.fit.edu/international/freshman-transfer/requirements.php.

APPLICATION CHECKLIST—INTERNATIONAL UNDERGRADUATE AND TRANSFER STUDENTS

All undergraduate applicants must submit:
- A completed online Application for Undergraduate Admission
- Official reports of all examinations, diplomas and secondary school work translated into English
- English proficiency and standardized test scores (if required and/or available)
- One (1) letter of recommendation
- One-page personal statement
- Photocopy of the student’s passport photo page

All transfer applicants must submit:
- A completed online Application for Transfer Admission
- All official attended or currently attending university transcripts
- Photocopy of the student’s passport photo page
- Official Foreign Credential Evaluation, FCE (See page 24)

After being granted admission, all international applicants must submit the following for I-20 issuance:
- An official bank letter as proof of finances
- A completed I-20 Request Form
- A completed Financial Certificate Form
- If transferring from a U.S. school, provide a Transfer Eligibility Form (with release date from your current institution)
- Official TOEFL or IELTS score report, if requested

When applying, make sure to:
- Choose a field of study from the list of majors provided in this brochure. A major must be chosen for academic evaluation.
- Use the same name (and spelling) that appears on your passport
- Send all credentials directly to the Office of Undergraduate Admission, admission@fit.edu
- Submit all materials in advance of applicable deadlines
- Send a copy of your passport—strongly suggested
Applying to Florida Tech

Information For Graduate Applicants

Admission Criteria
A student applying for admission to the graduate school must have at least a bachelor's degree or its equivalent from an institution of acceptable academic standing. To be considered for admission, the student's academic and professional record must indicate that there is high probability that the applicant will be able to pursue graduate work successfully.

Bologna Process
Florida Tech is proud to accept applications from three-year undergraduate students from member countries of the Bologna Process.

Graduate Application Filing Dates
Applicants should submit their application materials according to the guidelines below. It is your responsibility to ensure all materials required for application evaluation are received by the Office of Graduate Admissions before the deadline. If your application is incomplete at time of deadline, it may not be evaluated.

Clinical Psy.D. ................................................................. Jan. 1
ABA Ph.D. Program ............................................................ Jan. 15
I/O Psychology ................................................................. Jan. 15
All ABA M.S. Programs .................................................... Feb. 15
Biological Sciences ......................................................... March 15

All supporting application material must be received by the dates above.
*Chemistry applications accepted for the fall term only.
*Biotechnology applications accepted for the spring and fall terms only.
*Biological sciences applications encouraged for spring and fall.

International Application Deadline Dates
The application and all other required materials must be received by:
Summer ........................................................................ April 1
Fall ................................................................................... June 8
Spring ............................................................................. Oct. 14

How to Apply
Choose a field of study from the list of graduate programs and complete the online graduate application (www.fit.edu/apply). You must provide all requested information, including:
• Statement of Objectives
• Résumé
• Letters of Recommendation (must be sent directly from recommender)
• Proof of English language proficiency
• Application fee: $50 U.S. for master's programs and $60 U.S. for doctoral programs (Fee must accompany application.)
• Transcripts: Your application will be evaluated only when Florida Tech receives transcripts from all schools you have previously attended. Transcripts must be originals and one copy must be sent at least six months before you plan to enroll.
• Official non-U.S. university credential evaluation (see page 24.)
• Test scores: GRE scores are required for applicants of most of the Ph.D. programs and several of the master's programs. GMAT or GRE scores are recommended for all applicants to the Nathan M. Bisk College of Business at the time of application. Test scores may not be required for certain programs but they are helpful in evaluation for admission.

Demonstrating English Proficiency
The School of Arts and Communication determines the incoming student's competence in English and establishes the most beneficial program of study. Both undergraduate and graduate students whose home language is not English with scores below the following ranges may enroll in lower-level English training courses at the ELS Language Center on campus:

<table>
<thead>
<tr>
<th>IBT</th>
<th>IELTS</th>
<th>PTE Academic</th>
<th>Cambridge English: Advanced</th>
<th>Florida Tech TOEFL</th>
</tr>
</thead>
<tbody>
<tr>
<td>79</td>
<td>6.0</td>
<td>58</td>
<td>180</td>
<td>550</td>
</tr>
</tbody>
</table>

Exemption Criteria
Students whose home language is not English are considered to have demonstrated English language proficiency if they have done any of the following:
• Taken an internet-based TOEFL (IBT) with an earned score of at least 79, an IELTS with an earned score of at least 6.0, a PTE Academic with an earned score of at least 58, a Cambridge English: Advanced with an earned score of at least 180 (Grade of C) or an official Florida Tech TOEFL (paper-based) with an earned score of at least 550, no more than two years before attendance at Florida Tech; or
• Successfully completed Level 112 of the ELS English for Academic Purposes program; or
• Successfully completed the Kaplan International Higher Intermediate English level; or
• Successfully completed a total of 20 semester credit hours at an accredited university or college in the United States, United Kingdom, Ireland, Australia or Anglophone Canada, including three semester credit hours of English that qualify as transfer credit for Florida Tech's Composition and Rhetoric (COM 1101); or
• Earned a bachelor's or higher degree from an accredited university or college in the United States, United Kingdom, Ireland, Australia or Anglophone Canada; or
• Attended for three consecutive years and graduated from an accredited high school in the United States, United Kingdom, Ireland, Australia or Anglophone Canada; or
• Obtained an official score of four or higher on either the International Baccalaureate Higher Level Language A examination in English or the College Board Advanced Placement Program (AP) examination in English Language and Composition.

Students who meet English language proficiency by any means may still need to complete certain ESL courses if it is so deemed by their academic advisor. The program chair of English and Languages makes the final determination. For more information about the policies and requirements for English language proficiency at Florida Tech, contact the program chair of English and Languages in the School of Arts and Communication.
## Summary of Required Graduate Admission Materials

This summary is a quick reference for admission to Florida Tech’s graduate programs. See the individual program of study for application and transcript information.

### Aeronautics

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>S</th>
<th>G</th>
<th>✔</th>
<th>✔</th>
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</thead>
<tbody>
<tr>
<td>Airport Development and Management</td>
<td>M.S.A.</td>
<td>3</td>
<td>✔</td>
<td>✔</td>
<td>G</td>
</tr>
<tr>
<td>Applied Aviation Safety</td>
<td>M.S.A.</td>
<td>3</td>
<td>✔</td>
<td>✔</td>
<td>G</td>
</tr>
<tr>
<td>Aviation (Doctor of Aviation Online)</td>
<td>Av.D.</td>
<td>3</td>
<td>✔</td>
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<tr>
<td>Aviation Human Factors</td>
<td>M.S.</td>
<td>3</td>
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<td>✔</td>
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</tr>
<tr>
<td>Aviation Sciences</td>
<td>Ph.D.</td>
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<tr>
<td>Human Factors in Aeronautics Online</td>
<td>M.S.</td>
<td>3</td>
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</table>

### Business

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<tr>
<th>Program</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Accounting and Financial Forensics</td>
<td>M.S.</td>
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<tr>
<td>Business Administration</td>
<td>MBA</td>
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<tr>
<td>Healthcare Management</td>
<td>MBA</td>
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### Engineering and Computing

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<td></td>
<td>Ph.D.</td>
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<td></td>
<td>Ph.D.</td>
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<td>✔</td>
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<td>Chemical Engineering</td>
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<tr>
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<td>Civil Engineering</td>
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<tr>
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<td>Ph.D.</td>
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<td>✔</td>
<td>✔</td>
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<td>Computer Engineering</td>
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<td></td>
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<td>✔</td>
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<td>Computer Science</td>
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<td>✔</td>
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<td>Earth Remote Sensing</td>
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<tr>
<td></td>
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<tr>
<td>Flight Test Engineering</td>
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<tr>
<td>Information Assurance &amp; Cybersecurity</td>
<td>M.S.</td>
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<tr>
<td>Mechanical Engineering</td>
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<td>Ocean Engineering</td>
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<td></td>
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<td>Software Engineering</td>
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<tr>
<td>Systems Engineering</td>
<td>M.S.</td>
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<tr>
<td></td>
<td>Ph.D.</td>
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### Psychology & Liberal Arts

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
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<th>G</th>
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<tr>
<td>Applied Behavior Analysis (ABA)</td>
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<td>Behavior Analysis</td>
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<tr>
<td>Clinical Psychology</td>
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### Science

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### Human-Centered Design, Innovation & Art

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*GRE recommended but not required

1. The application deadline for ABA and OBM programs is Feb. 15.

2. The application deadline for I/O psychology and the doctoral program in behavior analysis is Jan. 15. Fall semester enrollment only.

3. Application/related materials deadline is Jan. 7 for the Psy.D. Fall semester enrollment only.

Note: GRE scores, although required only in certain programs, are recommended in most others and often can result in a favorable admission decision that might not have been possible otherwise.

Note: International applicants include full name as it appears on your passport.

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Confirming Enrollment
Admitted undergraduate students who wish to enroll at Florida Tech should confirm their intention to attend the university by submitting required tuition and housing deposits in Panther Pass by May 1. Graduate students are required to submit their deposits within 30 days of their admission letter. Undergraduate students admitted after April 1 and students admitted for entry during the spring or summer terms are asked to submit their deposits within 30 days of the date on their letter of admission.

Deposits
Tuition Deposit: A $300 nonrefundable deposit is required as a means of confirming your intention to attend Florida Tech. The deposit guarantees a place in the entering class in the major to which you were admitted and is credited to your student account. Failure to submit a tuition deposit may result in the following:
- You will not receive an I-20.
- You will be unable to be pre-registered for your courses in the entering term.
- You will be unable to sit for the online placement examinations administered in the weeks prior to your attendance.
- You will not be assigned an academic advisor.
- You will not be assigned a room in our residence halls.

Residence Hall Deposit: A $200 refundable housing deposit is required to reserve a place in one of our residence halls. The deposit will be returned to you when you leave the residence halls. All new undergraduate students with less than 54 hours of college credit are required to live in the residence halls.

Deferring Enrollment
Undergraduate students who have confirmed enrollment with a deposit but who, for reasons beyond their control, cannot attend Florida Tech in the semester to which they applied are permitted to defer enrollment to a later semester for one year. Florida Tech will change the term of attendance and keep its offer of admission active, however, new tuition and scholarships may exist. A student will be required to re-apply for admission if he or she attends any other academic institution between the time of deferral and the time of attendance at Florida Tech. All students who defer enrollment will need to request a new I-20 Form. Graduate students must also comply with the above, however admission is valid for two years.

Enrollment Requirement
If an international student enters the United States on a Florida Tech I-20 and wishes to attend another university, Florida Tech will not release the student until he/she completes one semester of attendance. Florida Tech's policy states that you are required to attend for one full semester if you enter the United States on an I-20 from Florida Tech.

Medical Records
Students who take prescription medicine or wear glasses should bring a copy of their prescriptions to Florida Tech in addition to medical and immunization records. All students born on or after January 1, 1957, need to provide proof of two MMRs (measles, mumps and Rubella) immunizations. The second MMR must have been given 30 days or more after the first. A positive titer (blood test) for MMR antibodies is acceptable proof.

International students from endemic areas of the world are required to have a t-spot test within two weeks of arriving at Florida Tech. This can be performed at the Student

“Software engineering is challenging. But because Florida Tech has many well-known professors who are great in their fields, I am learning a lot. It makes my academic experience very beneficial.”

Oz Wasserman, Software Engineering ’16
Tel Aviv, Israel
Health Center or any other provider. If positive, the student will be required to receive appropriate follow-up through the Brevard County Health Department.

Students who do not provide adequate immunization documentation will be required to obtain the immunization here before being permitted to register for classes. Students who are married and are being joined by family should bring each member’s medical records as well.

**Paying Tuition**
Students are expected to pay tuition in two installments per year, once prior to the beginning of each semester. Payment is due in August and January and may be remitted via the Panther Access Web System (PAWS) at www.fit.edu/paws or by visiting the Office of Student Accounts on campus. Florida Tech offers an interest-free monthly payment program. Information on this program can be found online at www.fit.edu/sfs/paymentplans.php.

**Student Health Insurance**
The United States government requires health insurance coverage for both full-time and part-time international students and any dependents residing with them. This is for the student’s protection and that of the student’s family. International students who enroll at Florida Tech are automatically enrolled in the university’s student health insurance program. Students who are officially sponsored by their home government or agency with guaranteed student health insurance as part of the contract with the university are exempt.

**FLIGHT STUDENTS:** Students applying to one of Florida Tech’s aviation majors with flight training are advised to schedule an appointment with an approved FAA medical examiner at their earliest convenience. A student admitted to the flight training program must have in his or her possession an FAA medical certificate prior to the start of flight training at Florida Tech. Applicants may locate a medical examiner via http://ame.cami.jcchki.gov.
Housing
www.fit.edu/housing

Florida Institute of Technology established an educational-based policy requiring all new full-time freshman to reside in university housing and participate in a meal plan for their first two years in college. (For the complete policy, see the Student Handbook at www.fit.edu/studenthandbook.) A variety of spacious, clean and modern residence hall options are available to students who choose to live on campus. The residential community at Florida Tech is best characterized as one of mutual respect, positive interaction and extracurricular enrichment. And since 30% of Florida Tech’s undergraduate and 49% of graduate students on the Melbourne campus come from countries outside the United States, ours truly is a global village.

Dining
www.fit.edu/food

Florida Tech offers six casual and delicious food service locations on campus, catering to all tastes and dietary preferences. The main dining facility, the Panther Dining Hall, is an all-you-care-to-eat cafeteria offering a variety of tasty options. It includes an international cuisine bar, pizza buffet, pasta station, homestyle entree area, short order grill, and salad, deli, beverage and dessert bars.
Living

Clubs and Organizations
www.fit.edu/activities

Created for students by students, there are nearly 100 clubs and organizations at Florida Tech. There are gaming and hobby clubs, political and religious organizations, academic groups and honor societies, club sports teams, arts and media groups, and a variety of cultural student associations, including:

• African Students Union
• Caribbean Students Association
• Chinese Students and Scholars Association
• Florida Tech Persian Association
• Global Buddies
• International Business Association
• International Student Service Organization
• Korean Student Association
• Kuwait Student Organization
• Latin American Student Association
• Libyan Student Association
• Muslim Student Association
• Sanskriti—Indian Students Association
• Saudi Students Union
• Sri Lankan Student Organization
• Taiwanese Student Association
• United Nations Club

Athletics and Intramurals
www.fit.edu/athletics

Florida Tech is home to 22 celebrated NCAA Division II intercollegiate sports teams that foster a sense of school spirit and healthy competition among all students.

Men's Sports
Baseball
Basketball
Cross Country
Football
Golf
Lacrosse
Rowing
Soccer
Tennis
Track and Field
Swimming

Women's Sports
Basketball
Cross Country
Golf
Lacrosse
Rowing
Soccer
Softball
Tennis
Track and Field
Swimming
Volleyball

In addition to our competitive athletic teams, Florida Tech offers a dynamic and active intramural program for students who wish to play volleyball, badminton, cricket, flag football, rugby, soccer and more!

Entertainment and Events
http://events.fit.edu

There’s always something fun, enriching, educational or “all of the above” happening at Florida Tech. Throughout the year, the university hosts a variety of lectures, concerts, competitions, cultural gatherings, career networking fairs, and student achievement and talent showcases—all of which make this an exciting place to live and learn.

INTERNATIONAL STUDENT AND SCHOLAR SERVICES
www.fit.edu/isss

The mission of the Office of International Student and Scholar Services (ISSS) is to support and enhance the educational, cultural and personal experiences of all overseas students at Florida Tech. ISSS hosts the International Student and Scholar Orientation, a monthly International Coffee Hour (a campus “meet and greet” featuring ethnic treats from a particular “host” country) and the annual International Festival.

Additionally, ISSS provides a variety of valuable student services, including but not limited to:

• Interpreting and communicating U.S. Citizenship and Immigration Services (USCIS) regulations
• Assisting students with visa and immigration matters including travel signatures, new I-20s, letters to social security, visa extensions, etc.
• Acting as liaison between students and their sponsoring agencies and native governments
• Providing information on campus and community services available to international students and faculty members
• Promoting intercultural exchange programs between international students and the university community

International Student Resource Guide

Packed with all the information an international student needs to make the transition to Florida Tech, the International Student Resource Guide is an important and valuable resource. It is available to download online at www.fit.edu/isss. Check it out for information about:

• Obtaining Your Visa
• Making Travel Arrangements
• What to Bring
• Immigration Documentation
• Orientation and Check-in
• On- and Off-Campus Housing
• Day-to-Day Life at Florida Tech
• Driving in the U.S.
• Health and Safety
• Bringing Your Family
• University Expenses
• Transferring Funds to the U.S.
• Immigration Responsibilities
• Local Goods and Services

International Festival

Inaugurated in 2007, Florida Tech’s International Festival is an annual celebration of cultural diversity. International student groups and community organizations host themed display booths featuring literature and artifacts aimed at promoting cultural awareness. Local restaurants sell a variety of traditional ethnic foods. But the main attraction is Florida Tech’s outdoor concert stage, the Panthereum, which showcases traditional cultural music, song and dance by a variety of on- and off-campus organizations.
“I love FIT because of the scholarships and small class sizes. Also, there are a lot of diverse people from different places all over the world, which is cool. I get to learn about them, where they’re from and what they really want to do with aerospace.”

Bonolo Mpabanga
Aerospace Engineering ’16
Botswana
Undergraduate Programs

College of Aeronautics
Aeronautical Science
Aeronautical Science, Flight
Air Traffic Control Management, A.A.
Aviation Management
Aviation Management, Flight
Aviation Meteorology
Aviation Meteorology, Flight
Flight Operations and Dispatch, A.A.
Human Factors and Safety
Human Factors and Safety, Flight

Nathan M. Bisk College of Business
Accounting
Business Administration
Entrepreneurship
Global Management and Finance
Information Technology Management
Leadership and Social Responsibility
Marketing
Sport Management
Business and Environmental Studies
Information Systems

College of Engineering and Computing
Aerospace Engineering
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Construction Management
Electrical Engineering
Engineering Technology
Environmental Science
General Engineering
Mechanical Engineering
Ocean Engineering
Oceanography
Software Engineering

College of Psychology & Liberal Arts
Applied Behavior Analysis
Forensic Psychology
General Studies
Humanities
Humanities, Prelaw
Multiplatform Journalism
Psychology (B.A.)
Psychology (B.S.)
Strategic Communication

Graduate Programs

College of Aeronautics
Aeronautical Science
Aeronautical Science, Flight
Air Traffic Control Management, A.A.
Aviation Management
Aviation Management, Flight
Aviation Meteorology
Aviation Meteorology, Flight
Flight Operations and Dispatch, A.A.
Human Factors and Safety
Human Factors and Safety, Flight

Nathan M. Bisk College of Business
Accounting
Business Administration
Entrepreneurship
Global Management and Finance
Information Technology Management
Leadership and Social Responsibility
Marketing
Sport Management
Business and Environmental Studies
Information Systems

College of Engineering and Computing
Aerospace Engineering
Biomedical Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Science
Construction Management
Electrical Engineering
Engineering Technology
Environmental Science
General Engineering
Mechanical Engineering
Ocean Engineering
Oceanography
Software Engineering

College of Psychology & Liberal Arts
Applied Behavior Analysis
Forensic Psychology
General Studies
Humanities
Humanities, Prelaw
Multiplatform Journalism
Psychology (B.A.)
Psychology (B.S.)
Strategic Communication

College of Science
Astrobiology
Astronomy & Astrophysics
Biochemistry
Biological Sciences
Aquaculture
Biomedical Science (Premedical)
General Biology
Genomics and Molecular Genetics
Marine Biology
Marine Conservation
Biomathematics
Chemistry
General Chemistry
Premedical Chemistry
Research Chemistry
General Science
Interdisciplinary Science
Aeronautics
Military Science
Mathematical Sciences
Applied Math
Meteorology
Physics
Premedical Physics
Planetary Science
STEM Education
Sustainability Studies
Undergraduate Minors
The intent of the optional minor is to encourage and recognize focused study in a field outside of the student's major. The minors require 18 to 21 credit hours of selected course work. Up to nine hours of this work may be applied from within the student's major curriculum. Florida Tech offers minors in 30 areas of study:

- Accounting
- Air Traffic Control
- Aircraft Dispatcher
- Applied Human Factors
- Athletics Coaching
- Aviation Environmental Science
- Aviation Management
- Aviation Safety
- Biology
- Business Administration
- Chemistry
- Communication
- Computational Mathematics
- Computer Science
- Entrepreneurship
- Environmental Science
- Flight Technology
- Forensic Psychology
- History
- Literature
- Management
- Management Information Systems
- Meteorology
- Music
- Nanoscience/Nanotechnology
- Oceanography
- Philosophy
- Physics
- Prelaw
- Psychology
- Science/Math Education
- Sustainability
- Textiles
- Unmanned Aerial Systems

Minors may be chosen from within or outside the student's major college. Minors will be indicated on the student's transcript and resulting diploma. It is not necessary to declare a minor at the time of admission. Students will be evaluated for admission based solely on their choice of major. Students may declare a minor at the time of enrollment or at anytime thereafter.

Doctoral Degrees
In addition to the Ph.D. degree, Florida Tech also offers the Doctor of Psychology (Psy.D.) degree. Each student must complete an approved program of study, pass a comprehensive examination, complete an original research program and prepare and defend a dissertation on that research.

FIT Orlando
www.fit.edu/orlandointernational

International students will find that FIT Orlando enriches their learning experience by cultivating a sense of community in the heart of a dynamic city. Our exceptional staff provides guidance and support for every student’s transition to living and learning in Florida.

Graduate degrees available at FIT Orlando include:

- Acquisition and Contract Management
- Engineering Management (STEM)
- Human Resources Management
- Logistics Management
- Management
- Management—Acquisition and Contract Management
- Management—Human Resources Management
- Management—Information Systems
- Management—Logistics Management
- Management—Transportation Management
- Master of Public Administration
- Project Management
- Project Management—Information Systems (STEM)
- Project Management—Operations Research (STEM)
- Quality Management (STEM)
- Supply Chain Management
- Systems Management
- Systems Management—Information Systems (STEM)
- Systems Management—Operations Research (STEM)

The Melbourne campus, FIT Orlando and Florida Tech Online have separate applications. Make sure to use the correct version when you apply!

www.fit.edu/apply

Online Programs
100% online associate, bachelor's and master's degree programs.

- Accounting, A.A., B.A, MBA
- Accounting and Finance, MBA
- Acquisition and Contract Management, M.S.
- Applied Psychology, A.A., B.A.
- Aviation Management, B.A., MSA
- Aviation Safety, M.S.
- Business Administration, A.A., MBA
- Business Administration—Accounting, B.A.
- Business Administration—Healthcare Management, A.A., B.A., MBA
- Business Administration—Management, B.A., MBA
- Business Administration—Marketing, B.A.
- Commercial Enterprise in Space, M.S.
- Computer Information Systems, A.A., B.S., M.S.
- Criminal Justice, A.A., B.A.
- Criminal Justice—Homeland Security, B.A.
- Finance, MBA
- Human Factors in Aeronautics, M.S.
- Human Resources Management, M.S.
- Information Technology, M.S.
- Information Technology—Cybersecurity, M.S.
- Information Technology—Database Administration, M.S.
- Information Technology—Enterprise Resource Planning (ERP), M.S.
- Information Technology Management, MBA
- Information Assurance & Cybersecurity, M.S.
- International Business, MBA
- Internet Marketing, MBA
- Liberal Arts, A.A.
- Logistics Management, M.S.
- Logistics Management—Humanitarian and Disaster Relief, M.S.
- Management, A.A., B.A.
- Management—Acquisition and Contract Management, M.S.
- Management—Human Resources Management, M.S.
- Management—Information Systems, M.S.
- Management—Logistics Management, M.S.
- Management—Transportation Management, M.S.
- Operations Research, M.S.
- Organizational Leadership, M.A.
- Project Management, M.S., MBA
- Project Management—Information Systems, M.S.
- Project Management—Operations Research, M.S.
- Public Administration, MPA
- Quality Management, M.S.
- Space Systems Management, M.S.
- Supply Chain Management, M.S.
- Systems Management, M.S.
- Systems Management—Information Systems, M.S.
- Systems Management—Operations Research, M.S.
- Technology Management, M.S.

More Information About Academics at Florida Tech

ACADEMICS HOMEPAGE: fit.edu/academics
ACADEMIC SUPPORT CENTER AND TUTORING: fit.edu/asc
ACADEMIC AND RESEARCH FACILITIES: fit.edu/research/centers.php

EVANS LIBRARY: lib.fit.edu
UNIVERSITY CATALOG: fit.edu/catalog

39