A Prospectus for the Overseas Student

Florida Tech
Here at Florida Tech you’ll find a diverse, multicultural and international community of students and faculty.

About one-third of all Florida Tech students are from outside of the United States, representing more than 120 countries.

What Others Have Said About Us

• Florida Tech is honored by *U.S. News & World Report* as the #1 National University in the country for fostering international student experiences as well as a Tier One Best National University for the eighth consecutive year.

• *Times Higher Education* named Florida Tech among the world’s top “Golden Age” universities, one of just 14 U.S. colleges to make the list.

• 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.

• Florida Tech was named one of the nation’s best technical schools in the 2018 *Fiske Guide to Colleges*, earning a spot in the influential annual directory’s list.

• 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:** 15:1 (Melbourne Campus)

**FACULTY:** 296 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. 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:** 20 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) 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.
The curriculum for the aeronautical science major prepares the graduate for a career in the
global aeronautical science and technology industry and government regulatory agencies.
The graduate is provided a strong foundation in mathematics, physics, aeronautical sci-
ences, aeronautical technology and the regulated international aviation industry. The flight 
option prepares graduates for a flight operations career and/or a career as a professional 
pilot.

Airport Development and Management, M.S.A.

Applied Aviation Safety, M.S.A.
The Master of Science in Aviation (MSA) is designed to help meet the professional growth
needs of persons interested in a wide range of aviation careers.
The degree is especially relevant for those who have earned baccalaureate degrees in 
aviation and those who have worked in the aviation field and now require more special-
ized knowledge. Generally, persons interested in careers in airport or airline manage-
ment, airport consulting and governmental organizations involved in the management or 
regulation of airports should select the airport development and management program.
Persons interested in aviation safety, accident investigation, technical aviation consulting 
and educational, regulatory or investigative positions in government or trade organiza-
tions would find the applied aviation safety program most appropriate.

Aviation Human Factors, M.S.
Human factors refers to the field of study that attempts to identify the principles of 
human/machine interaction, and applies these principles to the design and operation of 
engineered systems. Thus, the 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.

Although the range of engineered systems of interest in human factors is very wide, this 
degree concentrates on aviation-related human factors studies. Such studies range from 
aircraft cockpit design and aircraft maintenance methods and procedures to complex 
ground-based entities such as the National Airspace System. Human factors is now 
recognized as an indispensable component of systems design and evaluation, accident 
investigation and prevention, simulation, training, procedures development and system 
performance testing. Considerable research is being conducted in this field by government 
and private entities around the world.

In addition to its advantageous location on the Space Coast, Florida Tech has significant 
university assets that enhance its potential for aviation human factors research and 
education.

Aviation Management (Flight Option), B.S.
The curriculum for the aviation management major prepares the graduate for an avia-
tion management career focused on airport management and development, and air 
transportation management. Graduates are provided with a solid educational foundation 
in aviation, business, airport management and development, and air transportation 
management appropriate for a challenging career in the international aviation industry.
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 Meteorology (Flight Option), B.S.**
The curriculum for the aviation meteorology major provides a background in meteorology, aeronautical science and the 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. Graduates are prepared for careers with major airlines, corporate aviation and the FAA, as well as international organizations. The flight option prepares students for a career as a professional pilot with a strong meteorological and physical science background.

**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. The focus of the program is a combination of theory and practice, and dissertation research is oriented for aviation professionals to solve both research- and theory-based aviation problems and apply solutions to real problems in the field.

**Aviation Safety and Human Factors (Flight Option), B.S.**
The curriculum for the aviation safety and human factors major prepares the graduate for a career in the global aeronautical science and technology industry and government regulatory agencies. The graduate is provided a strong foundation in mathematics, physics, aeronautical sciences, aeronautical technology and the regulated international aviation industry. Flight option students will achieve at least commercial pilot licensure with instrument and multiengine ratings, preparing them for a career as a professional pilot.

*The aeronautical science and aviation management programs are accredited by the Aviation Accreditation Board International (AABI).*

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**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.

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**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.
Academic Programs

Nathan M. Bisk College of Business
cob.fit.edu

Accounting, B.S.
The Bachelor of Science in Accounting is a traditional four-year accounting program providing a solid business framework. This program includes the business practicum (focused on accounting) as well as access to the corporate mentor program. Students planning to take the CPA examination in Florida receive a solid foundation preparing them for the M.B.A. accounting track, where they can earn sufficient credits to be eligible for this examination.

Accounting and Financial Forensics, M.S.
The Master of Science in Accounting and Financial Forensics degree program complements the undergraduate accounting program offered through the college and allows students to continue their education in an innovative and highly sought-after area of accounting with an emphasis on finance, business technology and internal auditing. 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.

Business Administration, B.S.
The Bachelor of Science in Business Administration is designed for students who want to study business in an environment that fosters creative thinking, diversity, ethical behavior and leadership skills. Students learn to create value and manage change; value individual contributions and respect cultural social differences; make thoughtful decisions, set high standards and be accountable to stakeholders and society as a whole; and lead by fostering critical thinking, effective collaboration, and creativity in solving complex business problems. The skills and knowledge learned will permit students to contribute significantly to their chosen occupations after graduation.

The curriculum for the business administration major permits the student to acquire a foundation in all areas of business administration (accounting, business law, information systems, economics, finance, marketing, management, quantitative methods and statistics). It includes a capstone experience in senior year that combines business plan research with a practicum experience. The practicum allows students an option to start a business in the college's Student Business Incubator.

After graduation, the business administration major has an excellent background in the business and management fields and can directly enter the job market, in commerce, industry, government or other areas. Many students may 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.

Business Administration - Accounting, B.S.
The Bachelor of Science in Business Administration - Accounting prepares students for entry into a variety of fields in accountancy including corporate accounting, accounting information systems and governmental accounting, as well as graduate programs in accountancy, business and law. The accounting major equips students with basic and advanced accounting concepts, principles and procedures that prepare them for entry-level positions or pursuit of the additional educational requirements to become Certified Public Accountants.

Business Administration - Entrepreneurship, B.S.
The Bachelor of Science in Business Administration - Entrepreneurship prepares students as future leaders in the global workforce. Aligned with the Florida Tech mission, the program provides a range of resources in entrepreneurial development, growth and expansion. The entrepreneurship major includes the foundations of entrepreneurship and innovation through the integration of coursework, business research and hands-on activities.

Business Administration - Global Management and Finance, B.S.
The Bachelor of Science in Business Administration - Global Management and Finance prepares students for work in domestic or foreign-based companies involved in international trade or finance. The global management and finance major emphasizes the impact of national culture in shaping values, behaviors and business practices. Students apply critical thinking to evaluate global financial issues related to currency fluctuations, exchange rate risk and multinational investment and capital budgeting. Students are encouraged to enroll in a study abroad program during the summer months.

Business Administration - Information Technology Management, B.S.
The Bachelor of Science in Business Administration - Information Technology Management is designed for students who are interested in information technology management (ITM) in support of a wide range of business applications. Information technology management majors study theoretical aspects and gain hands-on experience using ITM in classroom exercises and projects. Students apply critical thinking in solving real-world problems in managing new and emerging technologies.

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

Business Administration - Marketing, B.S.
The Bachelor of Science in Business Administration - Marketing provides a solid marketing framework. This marketing major includes the major field practicum (focused on marketing). Students will gain appropriate background in all areas of marketing in a global economy including principles of marketing, research techniques, marketing strategy and consumer behavior among other key areas.

Business Administration - Sport Management, B.S.
The Bachelor of Science in Business Administration - Sport Management provides a background in the business of sport with a solid foundation in the core business disciplines. The curriculum for the sport management major includes specialized courses in economics, finance, marketing and management that emphasize the unique nature of the sport industry. Students can also select elective courses in sport psychology, public relations, and facilities and event management. Students are required to complete 150 hours of field practica in a business aspect of professional, collegiate, recreational or community sport.
Business Administration, MBA
The Master of Business Administration (MBA) degree is a graduate professional program that emphasizes breadth of preparation in the various competencies required of business executives. The MBA program is ideally suited not only for individuals with undergraduate degrees in business, but also for individuals with undergraduate degrees in other fields who have career goals that demand the competitive edge of quality graduate education in managerial decision-making.

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.

Finance, B.S.
The Bachelor of Science in Finance prepares students for work in trade or finance. The finance major is employed in many areas and businesses, nonprofit organizations and government. Financial analysts gather and dissect financial data and guide investment decisions. Financial analysts look for market trends and investment opportunities while using formulas and statistical analysis to calculate risk and potential outcomes.

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 Bachelor of Science in Information Systems integrates concepts, methods and skills necessary for developing and implementing the latest technologies for competitive advantage in a global marketplace. The information systems major focuses on practical applications of current and emerging technologies for strategic support of an organization’s technical goals and offers areas of emphasis in database management and information assurance for a depth of knowledge in understanding today’s complex systems. Throughout the program, students apply technologies in developing a skill set necessary for real-world information and decision support.

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.

ACCELERATED BUSINESS PROGRAMS
Beyond the traditional four-year bachelor’s degree, new students interested in business may now choose from any of the following options, earning their degree(s) in less time, with lower cost, but with no less of an education:

THREE-YEAR PROGRAM
• Complete a bachelor’s degree in business in three years.

FOUR-YEAR (3+1) PROGRAMS
• Complete a B.S. in Business Administration and a Master of Business Administration in four years.
• Complete a B.S. in Accounting and an M.S. in Accounting and Financial Forensics in four years and be ready to take the Certified Public Accountant (CPA) license exam.

FIVE-YEAR (4+1) PROGRAMS
• Complete either the B.S. to MBA or B.S. to M.S. program in five years.
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.

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 successfully 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.

Astrobiology, B.S.
The astrobiology major is designed for students interested in pursuing a broad range of space-related careers, either on completion of the bachelor’s degree program or after completing graduate studies. Emphasis in the curriculum for the astrobiology major 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 interdisciplinary and designed to meet the needs of students intending to pursue graduate education in astrophysics, astrophysics, planetary sciences or biology.

Astronomy and Astrophysics, B.S.
The undergraduate space sciences program for the astronomy and astrophysics major is designed for students interested in pursuing a broad range of space-related careers, either upon completion of the bachelor’s degree program or after completing graduate studies. Emphasis in the curriculum for the astronomy and astrophysics majors 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 and a career in the astronomical sciences.

Biochemistry (Premedical), B.S., M.S.
As the broadest of the basic sciences, biochemistry includes many subspecialties, such as inorganic biochemistry, bioorganic chemistry, physical biochemistry, biochemical and molecular genetics, biomedical pharmacology and immunochemistry. Recent advances in many areas of biochemistry have created links among technology, chemical engineering and biochemistry. More than ever, this is the age of biochemistry because the techniques of so many different disciplines can now be applied in studying the chemistry of living systems. Career opportunities for biochemistry majors are rapidly expanding in the areas of agricultural research, biotechnology firms, governmental laboratories, industrial research, and development and research institutes, as well as university research and teaching.

*The College of Engineering & Science has nine programs accredited by ABET (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.
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.
Biological Sciences, Ph.D.
The doctor of philosophy 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.

Biology (General), B.S.
The Bachelor of Science in General Biology is ideal for students with broad interests in the life sciences. The general biology program allows students to sample courses from marine biology, ecology and molecular biology to discover their own areas of emphasis. Undergraduates can then easily switch between the programs offered within the department and graduates in general biology are poised to enter post-baccalaureate programs in any of these areas.

Biomathematics, B.S.
Mathematical biology (biomathematics) is a highly interdisciplinary program at the intersection of mathematics, biology and computer science. The biomathematics major is offered through the mathematics department. Primarily during the freshman and sophomore years biomathematics majors complete core courses, then specialize during the junior and senior years. Specialization is based on interest in computer science, mathematics or biology, while retaining interdisciplinary training.

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.

Biomedical Science (Premedical), B.S.
The Bachelor of Science in Biomedical Science is designed for students interested in pursuing careers related to understanding and treating disease. Biomedical science prepares students for careers in the medical health professions, including physician, dentist, veterinarian, physician assistant, pharmacist and others, as well as careers researching the molecular causes of and treatments for aging, cancer, immune diseases and other diseases disrupting human physiology.

Biotechnology, M.S.
Biotechnology is a rapidly evolving industry with major impact on healthcare, environmental remediation, agriculture and energy resources. In order to compete effectively for a position in this growing area, students must be capable of integrating information from the classroom and the laboratory in multiple disciplines including biology, chemistry, engineering, computer science and business. The biotechnology program provides the opportunity for a student to choose areas of biotechnology most appropriate for the research or business career they desire. Students are provided not only with a curriculum that includes core courses fundamental for all areas of biotechnology, but also a program sufficiently flexible to prepare the student for work in industry or academia, or transition to other advanced educational programs. Strong emphasis is placed on the development of communication skills highly valued in the biotechnology industry.

Cell and Molecular Biology, M.S.
Students in this program study the processes that occur within and between the body’s cells. Topics of study include genes, the way cells carry nutrients throughout the body, and how diseases attack healthy cells. The Master of Science in Cell and Molecular Biology prepares the student either for a professional career or for further graduate study. This goal is achieved through a balance of coursework and research activities.

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.

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

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undergraduate program in chemistry is accredited by the Committee on Professional Training of the American Chemical Society.

**Chemistry–Premedical 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.

**Chemistry–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.

**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 programs offer comprehensive coverage of CIS concepts, theories and practices in key technology-driven areas of programming languages, database and software systems, network theory and design, decision analysis, Internet and Web applications and systems analysis and design. Students are prepared for positions in organizations that design, develop or use computer systems.

**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.

**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.

**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.

**Ecology, M.S.**
Ecology is the study of how organisms interact with one another and with their physical environment. Ecology is studied at many levels, including organism, population, community, ecosystem, and biosphere. The Master of Science in Ecology prepares the student either for a professional career or for further graduate study. This goal is achieved through a balance of coursework and research activities.

**Education, M.Ed. (Master of Education)**
This degree program is designed for working professionals who seek to further their education and enhance their teaching practice. It 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.**
The master's degree in educational technology is designed for all teachers and others who want to further their education in the use of computers and related technology in schools or other instructional settings. It is appropriate for teachers at any grade level and for any subject matter area. The curricula are designed for students with minimal background in computers. The degree is intended for students interested in teaching with technology and computers, and teaching computer applications and computer literacy.

**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.

**Elementary Science Education, M.Ed.**
This degree program is designed for the elementary school teacher and focuses on the theory and practice of teaching, and provides professional development that is applicable to teaching science in the elementary classroom.

**Engineering, General (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 engineering academic programs.

**Engineering Management, M.S.**
The Master of Science in Engineering Management meets the professional needs of the engineer who, although working in a technical field, finds it necessary to update his or her skills in engineering, as well as acquire knowledge in the management of other engineers. Typically, engineers find that as they advance in their chosen fields, the challenges of management increasingly play a role in the overall responsibilities of the position. Many find their careers would best be served by a program...
Environmental Education, M.S.
Environmental education is for individuals with experience and/or active interest in formal education programs (i.e., schools) and non-formal education programs (e.g., nature/environmental centers, agencies, parks, gardens, zoos and museums). The program is designed to provide graduate education in science and environmental content, as well as expand and enhance environmental education teaching skills. The program includes graduate coursework in environmental content, in environmental education and in educational research.

Environmental Resource Management, M.S.
Environmental resource management has become an area of national and international significance. Resource managers, typically in the public and private developmental sectors, face increasingly complex technical problems that cut across several of the more traditional educational disciplines. In addition to the fundamentals of biological and chemical environmental processes, managers must be knowledgeable in local and global cause and effect relationships of human activities in the development and use of environmental resources. Resource managers must also understand the legal and regulatory aspects of resources management. Recognizing these multidisciplinary needs, the master's degree program in environmental resource management is closely associated with the environmental science program at Florida Tech and includes both university coursework and an internship with a regulatory agency, NGO or private company that manages environmental resources. Graduates are well prepared to effectively interact with engineers, scientists, managers and politicians.

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.

Fisheries and Aquaculture, B.S.
The Bachelor of Science in Fisheries and Aquaculture seeks to educate students in unifying themes in biology, while ensuring students are well prepared to enter graduate programs and careers in fisheries and aquaculture in commercial and governmental organizations. The program will qualify graduating students for an associate fisheries professional certification from the American Fisheries Society on receipt of the degree. Fisheries and Aquaculture majors study the theory and practice of finfish and shellfish culture. Following a core curriculum of basic science and mathematics, students take specialized courses in culture techniques of salt and freshwater algae, crustaceans, finfish and molluscs.

Flight Test Engineering, M.S.
The Master of Science in Flight Test Engineering seeks to expand student knowledge, skills, ability and competency in the field of aircraft flight testing. Flight test engineering views the aircraft design problem from the perspective of evaluating the performance of an existing aircraft, rather than from the perspective of designing an airplane to meet performance specifications. The core courses teach the engineer how to test an aircraft safely, measure aircraft performance and determine its flying qualities. The program teaches students the necessary measurement techniques, instrumentation, and the data analysis methods required to collect and reduce flight test data to standard atmospheric conditions, expand the results for publication in pilot operating handbooks, and for use in improving the design of future aircraft.

Genomics and Molecular Genetics, B.S.
The Bachelor of Science in Genomics and Molecular Genetics provides students with access to modern genetic, genomic, cellular and molecular approaches to the study of biology. In addition to the relevant coursework in biology, the program features a solid foundation in chemistry, biochemistry, physics and mathematics. Students are encouraged to seek out individual research experiences with departmental faculty for course credit. Research opportunities include antimicrobial development, the effects of climate change on the molecular biology of marine organisms, the molecular biology of fertilization, aging, marine toxicology, protein-folding disorders, chemical communication in bacterial populations, and other areas.

Human Centered Design, M.S., Ph.D.
Human-centered design (HCD) is a design and management framework that develops solutions to problems by involving the human perspective in all steps of the problem-solving process. Human involvement typically takes place in observing the problem within context, brainstorming, conceptualizing, developing, and implementing the solution. These graduate programs prepare students to conduct independent scholarly work, teach in academia, or work in commerce or the private sector.

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.

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 at both the undergraduate and graduate levels. Aeronautics and military science options are available for undergraduate students.

**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 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.

**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. Coursework emphasizes the diversity of marine organisms as well as their characteristics, interrelationships and interactions with the marine environment. Integrating fieldwork and laboratory studies is a priority with emphasis on using molecular-based approaches to answer questions regarding the adaptation and resilience of marine organisms and habitats in the face of global climate change and invasive species.

**Marine Conservation, B.S.**

The Bachelor of Science in Marine Conservation provides students with the skills and knowledge for immediate employment in ocean and estuarine conservation, or for graduate studies in ecology and conservation biology. Graduates are prepared to face the challenges associated with global climate change, pollution and habitat loss, as well as the growing threat of invasive species. Coursework emphasizes ecological principles, experimental design, implementation and analysis. Access and training to in-demand technologies such as geographic information systems (GIS), R statistical software and other tools are a priority. Courses in natural resource economics and media communication gives graduates the skills necessary to serve as ocean diplomats to the public, or aid in policy debate and implementation.

**Mathematical Sciences, B.S.**

During the first two years, mathematical sciences majors share many courses with other students. The mathematical sciences major is highly interdisciplinary and designed primarily for dual majors. At this time, applications of mathematics across disciplines routinely occur in engineering, science and industry. The curriculum for the mathematical sciences major includes courses in mathematics 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 are prepared to pursue graduate work or take their place in industry along with engineers and scientists.

**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.

**Mechanical Engineering, B.S.*, M.S., Ph.D.**

Mechanical engineers 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.

**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 estuarian and coastal waters for classroom and laboratory work.

Ocean engineering students typically focus their studies in one of five areas: biological oceanography, chemical oceanography, coastal zone management, marine environmental science or physical oceanography.

**Operations Research, M.S., Ph.D.**

Operations research prepares the student for a challenging professional career in industry, the public sector or further graduate study and research. The successful graduate will have the methodology, analytical tools and practicum experience to analyze a system or process and to make decisions concerning the efficiency and effectivness of its operation.

**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.

**Physics—Premedical Physics, 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, General (first year non-degree program)**

The general science program provides a common freshman year curriculum for students planning to major in science or math, but who are uncertain about which major to choose. Courses representative of science majors are taken during the freshman year, allowing students to transition into the science or math major of their choice.
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. At the master’s level, students may choose between formal and informal education options.

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.

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.

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.

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.

Teaching, M.A.T. (Master of Arts in Teaching)
This post-baccalaureate program is for individuals with bachelor’s degrees in content areas, who are either current teachers with 3-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 coursework that can lead to Florida teacher certification. It consists of a minimum of 30 graduate credit hours.

*The College of Engineering & Science has nine programs accredited by ABET (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 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.

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 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 Human-Centered Design
- 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).
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.

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.
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.
GLEASON PERFORMING ARTS CENTER

The 500-seat W. Lansing Gleason Performing Arts Center is designed for stage plays, musical productions, scientific displays, lectures, seminars, camps and conferences. It is equipped with professional stage facilities, lighting and sound. The facility is equipped with C and KU band and digital satellite downlink services that can be incorporated into productions and viewed on a large screen. Situated in the central portion of the campus, the auditorium is a cultural asset to the university and surrounding community.


college players

College Players is a student-run club that provides extracurricular music and acting opportunities to interested students in forms of musicals and plays. They welcome involvement by all students, seeking a high level of craft and excellence in their projects, but working to maintain a supportive community that has fun.

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.

The multiplatform journalism program is designed with an emphasis on science and technology journalism in mind. It is meant to support and encourage research by means of training future professionals to promote science and technology and to make it available to wider audiences.

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.

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.

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.
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 probabilistically 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.

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.

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.”
Robert Weaver, Ph.D.
Ocean Engineering
Research areas: Coastal engineering, storm surge analysis and hydrodynamics. Robert 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 surf boards 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.

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

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

Heather Crawford, Ph.D.
Computer Engineering
Heather Crawford is an assistant professor in the Harris Institute for Assured Information and the College of Engineering and Science. Her research interests include privacy, security and trust for the Internet of Things, behavioral modeling, alternative authentication and usable security.

Darby Proctor, Ph.D.
Psychology
Darby Proctor is an assistant professor of psychology and program coordinator for the animal behavior concentration in undergraduate psychology. She studies nonhuman primate decision-making, focusing on chimpanzees, spider monkeys and lemurs. She currently collaborates with Brevard Zoo to study its animals.

Andrew Palmer, Ph.D.
Biological Sciences
Working at the interface of chemistry and biology, Andrew Palmer is interested in studying low molecular weight compounds in plants and plant-like systems. His current research also focuses on astrobiology and sustainable agriculture on Mars.
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 95% 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
Saudi Airlines
SeaWorld
SpaceX
Sprint
Texaco
Texas Instruments
United Airlines
United Technologies
Universal Studios
University of Massachusetts
Verizon
Walt Disney World
Waste Management Inc.

2016 President’s Cup award winner from the College of Engineering: “PriMA Prosthetics – 3D Printed Pediatric Prosthetic Arm.” Team members included Taylor Atkinson, Ryan Babbitt, Nicole Ballman, Thaddeus Berger, Clyde Brown, Meet Pastakia, Justin Pavao, Austin Spagnolo, Zuhoor Yamani.
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.”

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.”

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.”

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.”

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.”

Stephanie Link ’08
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Mishaal Ashemimry, ’06, ’07 M.S.
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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.”
Admission Information For All Applicants

Applying Online: 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 transfer 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 (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 universitylanguage.com/translation-academic-records. A WES evaluation/transcript can be ordered at 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.

An FCE report is considered valid only if submitted electronically from the FCE company directly to the Florida Tech admission office. The FCE 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.

For more information: admission.fit.edu/international/graduate/credential-evaluation.php

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. (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 fmjfee.com.
Financial Aid
fit.edu/financialaid

Undergraduate Scholarships
First-year students with complete admission applications on file will automatically be considered for the Panther Fund Academic Merit Scholarship.

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 cpla.fit.edu/sac/music and 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 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 Aribenchi
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 American grading system, students should have 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 with grade of C or better (in CXC exams, grades of 3 or above). All other educational systems are evaluated on a country by country basis.

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). While not required, a test score is strongly recommended.

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) if from a non-U.S. university or non English curriculum (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

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.) Tertiary course work earned outside of the USA must have a foreign credential evaluation.

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.
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 (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.

DEMONSTRATING ENGLISH PROFICIENCY
Students whose home language is not English are considered to have demonstrated English language proficiency if they have done any of the following:

• Earned scores of at least the following:
  ➤ TOEFL (iBT) 79, IELTS 6.0, PTE Academic 58, Cambridge English: Advanced 180 (Grade of C), GAKAO English subject section 120/150 or 96/120 (Jiangsu Province), Embassy English level B2, ELS English for Academic Purposes Level 112, Kaplan International Higher Intermediate-English level, UCF English Language Institute ELI level 8 grade of B, International Education Exchange Association PEAP level 6; or
  ➤ successfully completed a total of 20 semester credit hours at an accredited university or college in the United States, United Kingdom, Ireland, Australia, Anglophone Canada or Anglophone Caribbean, 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, Anglophone Africa, Canada or Caribbean; or
  ➤ attended for three consecutive years and graduated from an accredited high school in the United States, United Kingdom, Ireland, Australia, Anglophone Africa, Canada, or Caribbean or an American high school overseas; 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, https://policy.fit.edu/policy/search/7310.

ESL BRIDGE PROGRAM

Cambridge
English: Advanced
Cambridge
Embassy
English
Florida Tech
TOEFL
iBT
IELTS
PTE Academic
Gakao
169-179 Level 81 500-547 61-78 5.5 51-67 106-120/150 or 84-95/120

The ESL Bridge Program combines in-person classes required to earn a degree along with English instruction taught by Florida Tech faculty. All students are full-time, requiring enrollment in at least 12 credit hours of classes per semester. Students who score below the ranges specified above may enroll in lower-level English training courses at the ELS Language Center on campus: www.els.edu/melbourne
## 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.

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
<th>Required</th>
<th>Subject Test</th>
<th>Notes</th>
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</thead>
<tbody>
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<tr>
<td>Science Education</td>
<td>M.S., Ed.S.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Software Engineering</td>
<td>M.S.</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Space Sciences</td>
<td>Ph.D.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Systems Engineering</td>
<td>M.S.</td>
<td>✔</td>
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</tr>
<tr>
<td>Teaching</td>
<td>M.A.</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>

* 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 doctoral program in behavior analysis is Jan. 15. Fall enrollment only.

3 Application/related materials deadline is Jan. 1 for the Psy.D. Fall enrollment only.

**G** = GRE General Test

Verbal Reasoning | Analytical Writing Assessment

Quantitative Reasoning

**S** = GRE Subject Test

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. See back panel for additional information for international students.
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
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.jcchbi.gov.

Health Center or any other provider. If positive, the student will be required to receive appropriate follow-up through the Brevard County Health Department. The completed health form must be submitted before arrival on campus.

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 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 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. Students who already have U.S. health insurance, proven with a current insurance card, are exempt.
HOMER R. DENIUS STUDENT CENTER:
The Denius Student Center is the hub of student life on campus. Here, students find a Barnes and Noble Bookstore, a full service post office, the Sub Café and Deli dining room and meeting space for clubs and organizations. The second floor is home to the dean of students and the offices of student activities, residence life, Student Government Association and the Campus Activities Board.

Housing
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 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
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.

Safety and Security
Florida Institute of Technology is committed to ensuring the safety, security and well-being of its faculty, staff and students. As such, the 22 officers that make up the university’s Department of Security and Safety actively monitor the campus, respond to emergencies and serve the diverse needs of Florida Tech’s international community 24 hours a day, seven days a week. Other features that keep the Florida Tech community safe include:

- 50 easy-access emergency phones around campus
- Well-lit parking lots and walkways
- Electronic key card access residence halls
- A campus-wide safety alert system
- As-needed support from City of Melbourne emergency services

The Florida Tech Department of Security is a member of the Florida Association of Campus Safety and Security Administrators (FACSSA) and the International Association of Campus Law Enforcement Administrators (IACLEA). Campus incident statistics are available online at fit.edu/security.
Living

Clubs and Organizations
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
floridatechsports.com

Florida Tech is home to 20 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
- Swimming
- Women's Sports
- Basketball
- Cross Country
- Golf
- Lacrosse
- Rowing
- Soccer
- Softball
- Tennis
- 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
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
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 multicultural 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 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, B.S.
Aviation Management, B.S.
Aviation Meteorology, B.S.
Human Factors and Safety, B.S.
*Flight training options are available for each major.*

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

**College of Psychology & Liberal Arts**
Applied Behavior Analysis, B.S.
Forensic Psychology, B.A.
Humanities, B.A.
Humanities–Prelaw, B.A.
Multiplatform Journalism, B.S.
Psychology, B.A.
Psychology, B.S.
Strategic Communication, B.S.

College of Engineering & Science
Aerospace Engineering, B.S.
Applied Mathematics, B.S.
Astrobiology, B.S.
Astronomy & Astrophysics, B.S.
Biochemistry, B.S. (Premedical)
Biomathematics, B.S.
Biomedical Engineering, B.S. (Premedical)
Biomedical Science, B.S. (Premedical)
Chemical Engineering, B.S.
Chemistry, B.S.
General Chemistry
Premedical Chemistry
Research Chemistry

Civil Engineering, B.S.
Computer Engineering, B.S.
Computer Science, B.S.
Construction Management, B.S.
Electrical Engineering, B.S.
Environmental Science, B.S.
Fisheries & Aquaculture, B.S.
General Biology, B.S.
Genomics & Molecular Genetics, B.S. (Premedical)
Interdisciplinary Science, B.S.
Aeronautics
Military Science

College of Psychology & Liberal Arts
Marine Biology, B.S.
Marine Conservation, B.S.
Mathematical Sciences, B.S.
Mechanical Engineering, B.S.
Meteorology, B.S.
Ocean Engineering, B.S.
Oceanography, B.S.
Physics, B.S.
Premedical Physics
Planetary Science, B.S.
Software Engineering, B.S.
Sustainability Studies, B.S.

Graduate Programs

Aerospace Engineering, M.S., Ph.D.
Airport Development & Management, M.S.A.
Applied Aviation Safety, M.S.A.
Applied Behavior Analysis, M.S.
Applied Behavior Analysis & Organizational Behavior Management, M.S.
Applied Mathematics, M.S., Ph.D.
Aviation (Doctor of Aviation), Av.D.
Aviation Human Factors, M.S.
Aviation Sciences, Ph.D.
Accounting & Financial Forensics, M.S.
Behavior Analysis, Ph.D.
Business Administration, MBA
Biochemistry, M.S.
Biological Sciences, Ph.D.
Biomedical Engineering, M.S., Ph.D.
Biotechnology, M.S.
Cell & Molecular Biology, M.S.
Chemical Engineering, M.S., Ph.D.
Chemistry, M.S., Ph.D.

Civil Engineering, M.S., Ph.D.
Clinical Psychology, Psy.D.
Computer Engineering, M.S., Ph.D.
Computer Information Systems, M.S.
Computer Science, M.S., Ph.D.
Conservation Technology, M.S.
Earth Remote Sensing, M.S.
Ecology, M.S.
Education, M.Ed.
Educational Technology, M.S.
Electrical Engineering, M.S., Ph.D.
Elementary Science Education, M.Ed.
Engineering Management, M.S.
Environmental Education, M.S.
Environmental Resource Management, M.S.
Environmental Science, M.S., Ph.D.
Flight Test Engineering, M.S.
Global Strategic Communication, M.S.
Healthcare Management, MBA
Human-Centered Design, M.S., Ph.D.

Industrial/Organizational Psychology, M.S., Ph.D.
Information Assurance & Cybersecurity, M.S.
Interdisciplinary Science, M.S.
Marine Biology, M.S.
Mathematics Education, M.S., Ed.S., Ph.D.
Mechanical Engineering, M.S., Ph.D.
Meteorology, M.S.
Ocean Engineering, M.S., Ph.D.
Oceanography, M.S., Ph.D.
Operations Research, M.S., Ph.D.
Organizational Behavior Management, M.S.
Physics, M.S., Ph.D.
Science Education, M.S., Ed.S., Ph.D.
Informal Science Education, M.S.
Software Engineering, M.S.
Space Sciences, M.S., Ph.D.
Systems Engineering, M.S., Ph.D.
Teaching, M.A.
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:
- Accounting
- Aircraft Dispatcher
- Air Traffic Control
- 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
- Human Resource Management
- Literature
- Management
- Management Information Systems
- Meteorology
- Music
- Nanoscience/Nanotechnology
- Oceanography
- Philosophy
- Physics
- Prelaw
- Psychology
- Sustainability
- 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 the student’s major college. Minors will be evaluated for admission based solely on their choice of major. Students may declare a minor at any time thereafter.

FIT Orlando
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
- Computer Information Systems
- 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 Business Administration
- 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)

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.
This time lapse photo shows a United Launch Alliance Atlas 5 rocket blasting off from Cape Canaveral Air Force Station, located about 40 miles north of the Florida Tech campus.