Academic Support and Research

Intellectual life at a university goes beyond the classroom. Each campus of FDU has its own libraries, computer centers and research facilities, which foster the intellectual growth of students outside the classroom.

Academic Support and Student Services Centers

The Academic Support Center at the Florham Campus, Madison, New Jersey, and the Academic Resource Center at the Metropolitan Campus, Teaneck, New Jersey, help students develop excellence. Dedicated professionals provide a range of services — free of charge — to students who are having difficulty in a course or those who are highly motivated and want to hone their skills to change a potential B to an A.

Although each campus's center has some unique aspects, they all offer three basic services: workshops to develop study skills; tutoring for academic subjects; and testing, placement and instruction in basic skills.

Workshop offerings include those in the Core courses, reading, writing, academic study skills and, for those who require it, English as a second language. Development of reading skills is considered crucial to students' success; participants are taught how to adjust reading skills to the material at hand — whether a biology text or a 19th-century novel — and maximize comprehension and retention of the material. Individualized tutoring sessions help students who come in when they need concentrated assistance in overcoming problems in a specific course. The centers also administer the Accuplacer Placement Tests to selected incoming students and place students in the appropriate classes.

Libraries

The University maintains libraries at both its New Jersey campuses, the Florham Campus in Madison and the Metropolitan Campus in Teaneck. The University also maintains a library at its Wroxton College campus in England that supports the academic programs offered there. The Vancouver Campus provides a reference and circulating collection that supplements the FDU Online Library.

The Metropolitan Campus libraries include the Frank Giovatto Library in Teaneck and the Business Research Library (Dickinson Hall) in Hackensack. The Giovatto Library collection contains approximately 156,000 volumes. Approximately 350 periodical titles are currently received. The Giovatto Library also offers a collection (3,000) of both educational and popular DVDs and audiobooks on CD. Special collections include the Gehl collection of psychoanalytic materials, the Columbia film archives and selected presidential papers on microfilm.

The Sammartino Room, located on the ground floor of the Giovatto Library, is intended to house and to showcase the intellectual and historical heritage of the University. The collection includes monographs by the founder and first president Peter Sammartino and about the University, monographs published by FDU Press, FDU's *The Literary Review*, doctoral dissertations, yearbooks, faculty publications and FDU memorabilia. The Special Collections suite includes the Faculty Display Case with recent faculty publications; the Alumni Publications Display; the Magister Room, which houses the campus's master theses and honors theses. Desktop workstations are available in the Sammartino Room and the entire suite has wireless access. The J. Michael Adams Room, in the Special Collections Suite adjacent to the Sammartino Room, opened in October 2013. In addition to books and memorabilia, it houses the International Association of University Presidents (IAUP) archives.

The library offers a wide variety of workshops and programs open to students, and library news is available through the Giovatto Library Facebook page and blog. The library has two Boston by Steinway pianos and sponsors a library recital program for students and staff. The Giovatto Art Gallery offers exhibit space to faculty, staff and students.

One of the campus's most prominent work of art is Epic of America, which hangs on the face of the Giovatto Library. The casting was created by famous artist William Zorach. He described the symbolism as "The Indians that possessed this land … left us a rich heritage — We are all sun worshippers, loving life and the great forces of creation, renewed each day and yet never the same." The flags represent all the flags that "have flown over this country until we were all united under one flag."

The woman represents America itself, beautiful and full of fertile promise. And the man and the child represent "the spirit of enterprise and education, leading the new generation to carry on the work of today into the new visions of tomorrow — the new age flowing into life."

At the Florham Campus, the library is part of the John and Joan Monninger Center for Learning and Research. The older portion of the library building occupies the site of the greenhouses of the former Vanderbilt-Twombly estate. The large reading room at the front of the building, the Orangerie, once held tropical plants, and is all that remains of the original greenhouse-orangerie complex. The Fred Hassan Orangerie, designed by McKim, Mead and White, faces Hennessy Hall across a wide expanse of lawn, which is part of the larger Frederick Law Olmsted-designed grounds.

Developed at the Florham Campus location is a library collection of more than 130,000 book volumes, some 200 current newspapers and periodicals plus more than 1,900 backfiles. It also holds more than 1,600 DVDs and videos for classroom and individual use.

The noncirculating print collections in the Monninger Center include the Douglas Lloyd Kahn Collection on the History of Photography and Film with some 3,400 plus titles; and the smaller, noncirculating collections of the Kushen Family Collection in memory of Betty Kushen, Ph.D., including special editions of 19th- and 20th-century British women writers; Literature by Black Authors, in particular African-American writers in first editions; the Twombly estate collection; as well as the archives of Fairleigh Dickinson University founder Peter Sammartino; and the New York Cultural Center.

Extensive reference collections are available at all campus libraries for consultation and research, with the library serving its campus as a center for education and learning. At each facility, professional librarians offer individual guidance as well as classroom instruction in library use and research methodology.

Students and faculty on both campuses have easy access to all FDU library materials plus those of the College of Saint Elizabeth (Morristown, N.J.) through the online catalog CoolCAT. Intercampus loan requests can be delivered to the appropri-

ate campus within a day or two. A user needing special library materials not owned by FDU can access library holdings throughout the country with interlibrary loans. These can be requested either online or in person at any campus library.

The FDU Online Library provides access to more than 143 subscription databases containing more than 40,000 full-text journals, more than 135,000 e-books and a streaming video collection. Most resources within the FDU Online Library are available 24/7, both on campus and remotely.

The FDU library digital collection is available at www.fdu.edu/digitallibrary. This collection consists of unique items from the University's archives and from distinctive collections developed in collaboration with non-library partners, related to both the history of northern New Jersey and the University. Materials include master's theses, government documents, historical photographs and documents, digital artifacts, maps and podcasts. This collection is continually growing as the University works to preserve its University's heritage.

For further information call:

Monninger Center (Florham Campus) at (973) 443-8516

Giovatto Library (Metropolitan Campus) at (201) 692-2278

Business Research Library (Hackensack) at (201) 692-2608

Computer Facilities

Almost all students at the University make use of one of the campus computer centers, whether their majors are in the sciences, engineering, business, education or liberal arts, graduate or undergraduate. The computers available feature a wide range of application software and programming languages for students in all disciplines.

Florham Campus: The technology client services and support teams (formerly the computing services department) at the Florham Campus manages microcomputer labs in several buildings. The Dreyfuss Building has four general-purpose computer labs. There are also state-of-the-art computer graphics, animation and video-editing labs, which include high-resolution computer graphics equipment for the production of professional-quality, computer-generated art, 2D/3D animation, digital video and multimedia presentations. There are special-purpose computer lab facilities across the campus to support mathematics, business, comput-

er science, physics, biology, chemistry, visual and performing arts and others. There are general and business labs in the John and Joan Monninger Center for Learning and Research and the Academic Support Center.

Metropolitan Campus: The Metropolitan Campus technology client services and support teams (formerly the computing services department) manages three general-purpose computer labs in University Hall, along with a state-of-the-art graphics lab used for the production of high-quality graphics, 2D/3D animation, digital video and multimedia presentations, and three general-purpose computer labs in Dickinson Hall. There are special-purpose computer lab facilities across the campus to support mathematics, business, computer science, physics, biology, chemistry, visual and performing arts, psychology, nursing, video editing, engineering, athletics and others. There are general and business labs in the Frank Giovatto Library and the Academic Support Center.

Each computer lab is equipped with Lenovo ThinkCentre All-in-One desktop computers replete with Intel CORE™ i7 processors, LCD flat-panel display and combination CD-RW/DVD-RW drives for file storage and access to optical-based materials. All of the computers are connected to the University-wide network for file and print sharing and access to the internet. All lab computers are running the Microsoft Windows 10 operating system with a large suite of general-purpose software, such as Microsoft Office Professional, and discipline-specific software to support academic computing. Computer labs that are also used as classrooms are equipped with high-resolution/high-intensity computer-projection systems and/or high-definition, flat-panel display technology.

FDU has a laptop loaner program that enables students to "borrow" a laptop computer for use within the campus libraries. The loaner laptops are imaged with many software applications and can access the internet via the University wireless network. Additionally, the University's automated library system provides anyone the ability to search the holdings of both campuses from any location using the internet and NetID (formerly Webmail) credentials for authentication.

To keep pace with changes in technology and increasing demands for memory and processing power, campus computing

center computers are acquired on a three- to four-year technology refresh program. The most recent technology refresh for the general computer labs and many others was in the summer of 2016, and the graphics labs in the summer of 2014.

From the time a student is admitted, he or she may obtain, and use, a NetID (formerly Webmail) account to obtain email, network storage and printing capabilities.

University systems and security operates and maintains the University data centers, enterprise systems and networking infrastructure, which are used by all, regardless of campus or location. These systems support both the academic and administrative needs of the University. Services include a system for University-run web pages, faculty and staff personal web pages, a library automation system, an email system and other platforms for advancing the needs of the academic programs. These systems can be accessed using the internet.

High-speed, fiber-optic networking connects most buildings at the University to FDU's computer network. This facilitates communications among the students and faculty and provides easy access to all of the software and computer resources. Almost all of the academic buildings, including the libraries, have wireless LAN capabilities. This feature allows students with a laptop and a standard 802.11b/g/n/ac wireless LAN card to access the campus network, untethered, from any of those buildings. Every student has access to wired and wireless connectivity in his/her room to connect his/her computer device to the University network. These connections provide students with high-speed access to network resources and the internet. Wireless connectivity is also available in most of the common areas within residence halls.

UTAC

The Fairleigh Dickinson University Technical Assistance Center (UTAC) provides around-the-clock technical support services for more than 200 commercial off-the-shelf software applications, Google for Education, Microsoft and Macintosh (OS 8.x and higher) operating systems, all common browsers, Webcampus/BlackBoard, virtually all network connectivity options and password-reset support. This 24-hour helpdesk support is available to all students

from the time they are officially admitted to the University.

For more information call the Office of Information Resources and Technology at (973) 443-8689.

Acceptable Use Policies for Computer Usage

The University computing resources support the instructional, research and administrative activities of the University. Users of these facilities may have access to University resources, sensitive data and external networks. Consequently, it is imperative for all users to behave in a responsible, ethical and legal manner. Students are responsible for complying with relevant acceptable-use policies. Failure to comply with these policies may result in charges of violation of the Code of Student Rights, Responsibilities and Conduct and possible state and federal action.

The Fairleigh Dickinson University Acceptable Use Policy for Computer Usage and the Resident Network Acceptable Use Policy may be obtained from the University information systems website at the following URL: http://isweb.fdu.edu/ policies/oirt_policy. html.

Research

The variety, scope and incidence of research and related scholarly activity within the University continue to increase. Usually research carried out by the faculty combines the inquiry for new knowledge with the education of students at the graduate and undergraduate levels. Great emphasis is placed on research and related activities, independent study and inquiry and action projects and employment as means of developing abilities. Faculty research grants support research-related activities and travel. Government and industry, in addition to the University, support and sponsor University research activities.

Research and educational development activity is found in all academic disciplines. Research is integral to graduate programs in chemistry, corporate communication, clinical mental health counseling and psychology in the Maxwell Becton College of Arts and Sciences.

The master's-level program in chemistry provides research experience through a thesis-based research program. Students work alongside experienced faculty researchers in areas as varied as pharmaceutical chemistry, inorganic chemistry, molecular dynamics, biochemistry and biomaterial science. Current research within the department includes computational modeling of collagen mutations to determine their role in biological systems, development of surface bound anti-infective coatings for use in the biomedical industry, quantum mechanics and molecular orbital theory applied to metalloporphyrins, correlation of protein structure and function and separation and purification of biomaterials. Students have an opportunity to perform a full year of research working on original work in these areas, including but not limited to experimental design, analytical techniques, data analysis and conclusions.

At the end of their research experience, students are required to write a formal master's thesis and defend their work during a research seminar to complete the degree requirements.

Due to the nature of the master's program with a concentration in pharmaceutical chemistry, a research component has been integrated into the course work as part of a laboratory experience in Becton College. Foundation courses have been created to expose students to a broad array of topics and techniques to enrich the students' knowledge through hands-on learning and to prepare students for the challenges of industrial pharmaceutical chemistry that they are likely to experience in their postgraduate careers.

In Becton College's psychology and clinical mental health counseling programs, opportunities for research are provided both within courses and on a one-to-one basis with faculty. Student-faculty collaboration is frequent and often results in scholarly presentations at professional meetings as well as publications in relevant academic journals. Both qualitative and quantitative methods are used for data collection and analysis. Students have pursued research interests in a wide variety of areas such as work/life-balance issues, career-development patterns, personal and organizational factors affecting work performance, personality traits and the effects of stress.

Students have also investigated mental health processes (including psychological disorders and resiliency factors) as well as counseling techniques and treatment outcomes.

Communication studies faculty have published work in professional and scholarly journals and written books on communication theory, organizational and crisis communication, advertising, communication pedagogy, semiotics, network analysis and language and social interaction. Students in the corporate and organizational communication master's program have the option of a research thesis or a comprehensive examination, which also includes a significant research component.

The School of Pharmacy and Health Sciences engages in research across the spectrum of patient care, social and administrative sciences, health outcomes and pharmaceutical science. Faculty engage students in projects on topics ranging from health and wellness, delivery of care, study design and outcome evaluation and the role of the pharmacist in accountable care-organization administration and health care delivery. Additionally, basic-science research on drug delivery, evaluation and analysis of sterile compounds and other sterile techniques also take place within the school's research facilities.

University College: Arts • Sciences • Professional Studies prides itself on its emphasis on research. The Metropolitan Campus houses the clinical psychology and school psychology doctoral programs where students and faculty do research in such areas as behavioral medicine, cognitive, psychological and psycho-educational testing and women's issues to name a few. Faculty in the English and comparative literature department focus on modern and 19th-century English and American writers.

The Henry P. Becton School of Nursing and Allied Health faculty and students are engaged in various research projects and activities in the honors, master's and Doctor of Nursing Practice (D.N.P.) programs. D.N.P. students are engaged in evidence-based research for their dissertation projects. Some students implement research on patient outcomes, health policy and management in collaboration with various hospitals. D.N.P. students are required to pass an oral defense of their research or evidence-based projects.

The Peter Sammartino School of Education, also part of University College, is funded by local and state agencies and the Office of Education for a variety of innovative programs. Research is concentrated in the areas of learning disabilities, ESL, bilingual education and dyslexia.

The Lee Gildart and Oswald Haase School of Computer Sciences and Engineering focuses on research on electronic commerce, electronic business, organizational memory, organizational memory information systems, knowledge manage-

ment, wireless communication systems, radio resource management, optimization for engineering applications, optical devices, multimedia streaming, cross layer design, mobile computing, communication networks, mobile ad hoc networking, network management, conflict control, deadlock, ADA programming, real-time systems and formal methods, digital and adaptive signal processing, array processing, image processing, pattern recognition, biometric authentication, database systems, data warehouse, security, software reuse, component-based software engineering, semantic deep web, service-oriented computing, VLSI design and near-ring theory.

Research interests of faculty in the School of Natural Sciences are wide ranging and include such diverse topics as: microbiology, protozoan ecology and behavior, marine toxicology and invertebrate biology, biochemistry, enzymes, expression of extracellular matrix genes, wound care, application of biocatalysis in the preparation of pharmaceuticals, chitosan nanoparticles, polymer chemistry and computational chemistry.

The Silberman College of Business places significant emphasis on faculty maintaining their academic and professional qualifications to deliver quality business education programs. Faculty maintain their academic qualifications through rigorous research and other intellectual contributions related to their respective fields, thereby enhancing the quality of classroom instruction.

The research interests of faculty in the Silberman College of Business span several disciplines, including business law, economics, entrepreneurship, finance, health care systems, human resources, management, management information systems, marketing, quantitative analysis, production and operations management, managerial accounting and taxation. The faculty have researched and published numerous articles in peer-reviewed journals, presented at various national and international conferences, developed case studies, produced working papers, authored books and also served on expert panels for international organizations such as the United Nations. Some of the topics in which the college faculty have particular expertise include mergers and acquisitions, options theory, entrepreneurship and innovation, forensic science, sustainability, pricing theory, public relations, social networking,

international finance, quality of health care and delivery, international taxation, role of information systems in managerial decision making and e-commerce, among others. Students have the opportunity to participate in such projects after consulting with the appropriate faculty.

Finally, research also is an integral component of activities at Anthony J. Petrocelli College of Continuing Studies. Faculty pursue scholarly inquiry in areas that include 19th-century European history, robotics and applied computer simulations, the history of the Bronx, medieval studies, classical philosophy, ethical issues in the late 20th and 21st centuries and women's studies.

The Public Administration Institute's (PAI) program of applied research focuses on problems and issues in public policy and administration. Current research projects include studies of health services marketing, local government financial management, long-term health care services, public-sector management information systems, AIDS in the workplace and productivity measurement in the delivery of human services. The School of Administrative Science is conducting research in the fields of diplomatic leadership, computer security and forensics through the use of Petrocelli College's Cyber Crime Training Laboratory on the Metropolitan Campus, homeland security, emergency management, school safety, student services and sports administration.

Students With Disabilities

Fairleigh Dickinson University makes support services available to students with documented disabilities. Students with documented physical, learning or psychological disabilities may request reasonable modifications, accommodations, auxiliary aids or services which will provide them access to participate in programs and activities. Students with documented disabilities may request support services by contacting the campus ADA/504 coordinator. For the Florham Campus contact the director of disability support services at 973-443-8079. For the Metropolitan Campus contact the associate campus executive at (201) 692-2477.

Fairleigh Dickinson University Press

Fairleigh Dickinson University Press has published scholarly books for the academic market since 1967. It produces between 30 and 40 books each year in a variety of fields, with special emphasis on history, literature, the arts and the social sciences. The press publishes several book series, including *American History and Culture, Italian Studies, Communication Studies, Willa Cather Studies, Mormon Studies, Shakespeare and the Stage* and *Law and Literature*. It counts many award-winners among its publications, which are held in thousands of libraries around the world. Manuscripts that are considered for publication are subject to peer review by specialist scholars and selected for publication by an Editorial Committee composed of University faculty and an advisory board of associated scholars. The website for Fairleigh Dickinson University Press is www.fdu.edu/fdupress.

The Literary Review

The Literary Review (*TLR*) is an international quarterly journal of contemporary writing founded in 1957. As one of the country's longest continually running university-affiliated quarterly, *TLR* is an ambassador for FDU in the international literary community, asserting and demonstrating FDU's commitment to the arts. Four times a year it publishes a new issue of the highest-quality poetry and prose and is recognized for its style, its bold approach, its loyalty to its contributors — whether they are emerging or established writers, and its dedication to world literature. The journal has won recognition for its good work and reinforces the FDU profile through inclusion in best-of anthologies and online features through aggregation, by being invited to speak on panels of conferences and festivals, by relationships with high-profile literary organizations, such as PEN American Center, the American Literary Translators Association and Council for Literary Magazines and Small Marketplaces (CLMP). Members train and mentor more than 25 undergraduate and graduate students a year through internships in literary publishing and collaborate extensively with the creative writing department and M.F.A. program of FDU.