Graduate Studies Bulletin
2016–2017 Addendum

THE LEADER IN GLOBAL EDUCATION

FAIRLEIGH DICKINSON UNIVERSITY

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Contents

Addendum

Academic Calendar 2016–2017*

Fall Semester 2016

Registration/Academic Counseling and Advising	August 15–26
Classes Begin, 8 a.m. (Monday)	August 29
Labor Day Holiday (Monday)	September 5
Last Day for New Registrations and Final Drop/Add Changes (Monday)	September 12
Midterm Progress Reporting Opens (Monday)	October 3
Fall Recess (Monday–Tuesday)	October 17–18
Midterm Progress Reporting Closes (Tuesday)	October 25
Last Day for Student Withdrawal from Classes (Friday)	November 4
Priority Registration for Spring Semester 2017	November 7–22
Thanksgiving Recess, Begins 11 p.m. (Tuesday)	November 22
Classes Resume, 8 a.m. (Monday)	November 28
Last Day of Classes, Fall Semester (Monday)	December 12
Reading/Snow Makeup Days (Tuesday–Wednessday)	December 13–14
Final Examinations (Thursday–Wednesday)	December 15–21

Grades due no later than 5 p.m. on the third day after exam is administered.

Semester Ends, 11 p.m. (Wednesday)	December 21

Winter Session 2017

New Year's Holiday (Monday)	January 2
Classes (Mondays–Thursdays)	January 3–20
New Year's Holiday Makeup Day (Friday)	January 6
Martin Luther King Jr. Day Holiday (Monday)	January 16
Martin Luther King Jr. Day Holiday Makeup Day (Friday)	January 20

Spring Semester 2017

Registration/Academic Counseling and Advising	January 3–20
Classes Begin, 8 a.m. (Monday)	January 23
Last Day for New Registrations and Final Drop/Add Changes (Monday)	February 6
Midterm Progress Reporting Opens (Monday)	February 27
Spring Recess	March 13–18
Online Registration for Summer 2017 Sessions Opens (Wednesday)	March 15
Classes Resume, 8 a.m. (Monday)	March 20
Midterm Progress Reporting Closes (Saturday)	March 25
Last Day for Student Withdrawal from Classes (Friday)	April 7
Priority Registration for Fall Semester 2017	April 10–21
Last Day of Classes, Spring Semester (Saturday)	May 6
Final Examinations (Monday–Saturday)	May 8–13

Grades due no later than 5 p.m. on the third day after exam is administered.

Semester Ends, 11 p.m. (Saturday)	May 13
University Commencement (Tuesday)	May 16

Summer Sessions 2017

Summer Session I 2017

Classes Begin, 8 a.m. (Monday)	May 22
Memorial Day Holiday (Monday)	May 29
Memorial Day Holiday Makeup Day (Friday)	June 2
Classes End, 11 p.m. (Saturday)	July 1

Summer Session II 2017

Classes Begin, 8 a.m. (Monday)	June 12
Independence Day Holiday (Tuesday)	July 4
Independence Day Holiday Makeup Day (Friday)	July 7
Classes End, 11 p.m. (Saturday)	July 22

Summer Session III 2017

Classes Begin, 8 a.m. (Monday)	July 3
Independence Day Holiday (Tuesday)	July 4
Independence Day Holiday Makeup Day (Friday)	July 7
Classes End, 11 p.m. (Saturday)	August 12

The academic calendar is subject to change with appropriate notice.

*Weekend, off-campus and some Anthony J. Petrocelli College of Continuing Studies courses and certain special programs may follow a different schedule.

Nontraditional Academic Calendar 2016–2017

Online classes and classes that do not meet on the Metropolitan Campus or Florham Campus may not follow the holiday and academic break periods shown below. The instructor will clarify the class meeting schedule for each course, consistent with FDU Credit Hour Definition.

Fall 2016

Registration/Academic Counseling and Advising	September 19–23
Classes Begin, 8 a.m. (Sunday)	September 25
Last Day for New Registrations and Final Drop/Add Changes (Wednesday)	October 5
Fall Recess (Monday–Tuesday)	October 17–18
Midterm Progress Reporting Opens (Monday)	October 24
Priority Registration for Spring Semester 2017	November 7–22
Midterm Progress Reporting Closes (Friday)	November 11
Last Day for Student Withdrawal from Classes (Friday)	November 18
Thanksgiving Recess Begins, 11 p.m. (Tuesday)	November 22
Classes Resume, 8 a.m. (Monday)	November 28
Last Day of Classes, Fall Semester Ends 11 p.m. (Saturday)	December 17

Final examinations for all face-to-face classes are held during the last class meeting. Grades for face-to-face classes are due no later than 5 p.m. on the third day after exam is administered. Grades for online classes are due no later than third day after semester ends.

Spring 2017

Registration/Academic Counseling and Advising	January 3–6
Classes Begin, 8 a.m. (Sunday)	January 8
Martin Luther King Jr. Day Holiday (Monday)	January 16
Last Day for New Registrations and Final Drop/Add Changes (Wednesday)	January 18
Martin Luther King Jr. Day Holiday Makeup Day (Friday)	January 20
Midterm Progress Reporting Opens (Monday)	February 13
Midterm Progress Reporting Closes (Friday)	March 3
Last Day for Student Withdrawal from Classes (Friday)	March 10
Spring Recess	March 13–18
Online Registration for Summer 2017 Sessions Opens (Wednesday)	March 15
Classes Resume, 8 a.m. (Monday)	March 20
Last Day of Classes, Spring Semester Ends 11 p.m. (Saturday)	April 1

Final examinations for all face-to-face classes are held during the last class meeting. Grades for face-to-face classes are due no later than 5 p.m. on the third day after exam is administered. Grades for online classes are due no later than third day after semester ends.

Summer Session I 2017

Registration/Academic Counseling and Advising	April 3–7
Classes Begin, 8 a.m. (Sunday)	April 9
Priority Registration for Fall Semester 2017	April 10–21
Last Day for New Registrations and Final Drop/Add Changes (Wednesday)	April 19
University Commencement (Tuesday)	May 16
Memorial Day Holiday (Monday)	May 29
Memorial Day Holiday Makeup Day (Friday)	June 2
Last Day for Student Withdrawal from Classes (Friday)	June 9
Last Day of Classes, Summer I Semester Ends 11 p.m. (Saturday)	July 1

Final examinations for all face-to-face classes are held during the last class meeting. Grades for face-to-face classes are due no later than 5 p.m. on the third day after exam is administered. Grades for online classes are due no later than third day after semester ends.

Summer Session II 2017

Registration/Academic Counseling and Advising	July 3, 5–7
Independence Day Holiday (Tuesday)	July 4
Classes Begin, 8 a.m. (Sunday)	July 9
Last Day for New Registrations and Final Drop/Add Changes (Wednesday)	July 19
Last Day for Student Withdrawal from Classes (Friday)	August 25
Labor Day Holiday (Monday)	September 4
Last Day of Classes, Summer II Semester Ends 11 p.m. (Saturday)	September 16

Final examinations for all face-to-face classes are held during the last class meeting. Grades for face-to-face classes are due no later than 5 p.m. on the third day after exam is administered. Grades for online classes are due no later than third day after semester ends.

Addendum

The University

(Pages 9–10)

Updated.

Accreditation

Fairleigh Dickinson University is accredited by the Middle States Commission on Higher Education* and licensed by the State of New Jersey, Office of the Secretary of Higher Education.

In addition to the accreditation held by all programs for academic purposes, specialized curricula have applied for and been granted approval by the following recognized professional agencies: accountancy — New Jersey State Board of Public Accountants; business, Silberman College of Business — AACSB International - The Association to Advance Collegiate Schools of Business; chemistry — American Chemical Society (this accreditation applies only to the Bachelor of Science program offered by Maxwell Becton College of Arts and Sciences at the Florham Campus, Madison, New Jersey); civil engineering — Engineering Accreditation Commission of ABET** (EAC/ABET); civil engineering technology — Engineering Technology Accreditation Commission of ABET** (ETAC/ABET); clinical mental health counseling — Council for Accreditation of Counseling and Related Educational Programs (CACREP); clinical psychology (Doctor of Philosophy Program) — American Psychological Association; computer science — Computing Accreditation Commission of ABET** (CAC/ABET) (this accreditation applies only to the Bachelor of Science in computer science program offered by University College: Arts • Sciences • Professional Studies at the Metropolitan Campus, Teaneck, New Jersey); construction engineering technology — Engineering Technology Accreditation Commission of ABET** (ETAC/ABET); education — initial accreditation with Council for the Accreditation of Educator Preparation (CAEP) and New Jersey State Department of Education; electrical engineering — Engineering Accreditation Commission of ABET**

(EAC/ABET); electrical engineering technology — Engineering Technology Accreditation Commission of ABET* (ETAC/ABET); mechanical engineering technology — Engineering Technology Accreditation Commission of ABET* (ETAC/ABET); pharmacy — Accreditation Council for Pharmacy Education**; physical therapist assistant — Committee on Accreditation in Physical Therapy Education; radiography — Joint Review Committee on Education in Radiologic Technology; nursing — New Jersey State Board of Nursing and the Commission on Collegiate Nursing Education (CCNE); school psychology — National Association of School Psychologists (NASP); Silberman College of Business — AACSB International – The Association to Advance Collegiate Schools of Business; inclusion on approved lists of the American Medical Association and the American Dental Association (Medicine, Dentistry) by virtue of the accreditation by the Middle States Commission on Higher Education.

Admissions

International Students

(Page16)

Updated.

International students seeking admission to any graduate program at FDU may apply online at fdu.edu/apply and submit their official supporting documents to:
Office of International Admissions
1000 River Road, T-KB1-01
Teaneck, NJ 07666
Phone: 1-201-692-2205
Fax: 1-201-692-2560
Email: global@fdu.edu

One original copy and one translated and notarized copy (if not in English) of all the student's academic credentials verifying completion of the equivalent to a baccalaureate degree program in the United States at an accredited institution of higher learning. The student's record must demonstrate a high standard of academic performance to receive favorable admissions action.

Letters of recommendation and graduate entrance exams including, but not limited to, the Graduate Record Examinations (GRE) or the Graduate Management Admission Test (GMAT) are required for admission to some graduate programs. Students may check the website at fdu.edu/apply for specific information regarding the admission requirements for specific academic programs.

International students whose native language is not English are required to submit the results of a test of English proficiency. Students from Antigua and Barbuda, Australia, the Bahamas, Barbados, Belize, Bermuda, Canada (excluding Quebec), Fiji, Grenada, Guyana, Ireland, Jamaica, Kiribati, Marshall Islands, Mauritania, Micronesia, New Zealand, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Solomon Islands, Trinidad and Tobago and United Kingdom do not need to submit test scores. A minimum score of 550 (paper-based), 213 (computer-based) or 79 (Internet-based) on the TOEFL (Test of English as a Foreign Language) or an overall band score of 6.0 or higher on the IELTS (International English Language System) or a 53 or higher on the Pearsons PTE-A is required.

Students who are unable to meet the University's minimum English-proficiency requirement may apply for the intensive English program, offered by ELS Language Center. The University offers conditional admission in selected majors to students who apply to the ELS Language Center.

Applications for admission for the fall semester should be filed no later than July 1. Spring-semester applications should be filed no later than December 1. International students enrolling on an F-1 student visa must meet all admission criteria to be accepted as full-time graduate students and must register for at least 9 credit hours each semester (excluding summer) to maintain student-visa status.

Following admission, the University may require that all international students be tested to determine if additional English language study is required. If test results indicate further study is needed, the language requirements may consist of one or more semesters of English as a Second Language/EPS course work.

International students applying for an F-1 visa must give evidence of financial support for a period of one year.

The University requires that international students carry University insurance coverage for sickness and medical benefits.

Financial Aid and Scholarships

(Page 17)

Updated. First paragraph.

Fairleigh Dickinson University administers a variety of academic and need-based funding from federal, state and University sources. Financial aid is available to qualified full-time and part-time matriculated students at Fairleigh Dickinson University. A graduate student is considered to be enrolled full time when registered for a minimum of 9 credits per semester. New and returning students are expected to file the Free Application for Federal Student Aid (FAFSA) no later than January 1. The FAFSA must be filed EVERY year.

Federally Funded Programs

(Page 18)

Updated.

Financial aid from federal sources is available for eligible students from the Federal Direct Loan and Federal Work Study programs. The Free Application for Federal Student Aid (FAFSA) must be filed by January 1 each year for consideration. Eligibility is based on enrollment and satisfactory progress toward completion of the degree program.

(Page 19)

Updated.

Federal Loan Programs

Federal Direct Unsubsidized Loan
Eligible students may borrow up to $20,500.00 per year ($33,000.00 for graduate health-profession students enrolled in a nine-month academic year and $37,167.00 for graduate health-profession students enrolled in a 12-month academic year) from the Federal Direct Unsubsi-dized Loan program. Interest begins accruing at disbursement but may be capitalized and payments deferred until enrollment ceases (or drops below half-time). The interest rate is tied to financial markets and is determined each June for new loans made for the upcoming award year (July 1 to the following June 30). Each loan will have a fixed interest rate for the life of the loan and therefore students borrowing over multiple years may have loans at varying interest rates. There is a loan fee paid by borrowers at the time of disbursement, which, at the time of printing, is 1.068 percent (subject to change due to federal bud-get cuts). The Direct Unsubsidized Loan has a six-month grace period following the last date of at least half-time attendance (graduation, withdrawal or reduction in enrollment) before repayment begins.

Federal Direct Graduate PLUS Loan
Eligible students may borrow up to the cost of attendance less any amounts received from other sources from the Direct Graduate PLUS loan. Interest accrues at disbursement but may be capitalized while enrolled at least half-time. The interest rate is tied to financial markets and is determined each June for new loans made for the upcoming award year (July 1 to the following June 30). Each loan has a fixed interest rate for the life of the loan and therefore students borrowing over multiple years may have loans at varying interest rates. There is a loan fee paid by borrowers at the time of disbursement, which, at the time of printing, is 4.272 percent (subject to change due to federal budget cuts). Eligibility for the Direct Graduate PLUS loan is based on a credit review.

New Jersey State-funded Programs
There are a number of New Jersey State (NJS)-funded financial aid programs, such as loans. For a student to be eligible for any of these programs, he/she must be matriculated and maintain satisfactory academic progress in addition to being a New Jersey resident. To establish eligibility for any need-based funding, a student must also file an FAFSA by January 1 every year.

Important Information About Financial Aid

(Page 20)

Updated. Third paragraph.

Renewal of Financial Aid
1. File the FAFSA application no later than January 1 (including the correct **Federal School Code: 002607** for the Metropolitan Campus, Teaneck, New Jersey, and **004738** for the Florham Campus, Madison, New Jersey)

Tuition Payment Options

(Page 20)

Updated.

Installment Plan
Fairleigh Dickinson University offers a University-administered semester payment plan. A family can make four regularly scheduled monthly payments during an academic semester without interest. An enrollment form and semester fee are required.

Registration, Tuition and Billing Information

Tuition and Fees
(Pages 21–23)

Updated.

All fees, tuition and charges are subject to change at any time at the discretion of the University's Board of Trustees.

Fees and charges are for the academic year 2016–2017 or for the specific service described, unless otherwise stated. New tuition and fees charges for 2017–2018 will be announced in the spring of 2017. Please check with the Office of Enrollment Services for current charges.

Graduate Program Tuition
Maxwell Becton College of Arts
    and Sciences
       All Programs (per
       semester, per credit) $1,198.00
    Silberman College of Business,
       All Programs (per
       semester, per credit) $1,256.00
    Anthony J. Petrocelli College
      of Continuing Studies
       All Programs (per
       semester, per credit) $1,198.00
    University College: Arts • Sciences •
      Professional Studies
      Master's Level: Education, History,
      Political Science, International
      Studies, Natural Sciences,
      Psychology (per semester,
      per credit).......................$1,198.00
    University College: Arts • Sciences •
      Professional Studies
      Master's Level: Allied Health,
      Computer Science, Electronic
      Commerce, Engineering,
      Management Information Systems,
      Medical Technology, Nursing,
      Systems Science (per semester,
      per credit) $1,198.00
    University College: Arts • Sciences •
      Professional Studies
      Doctoral Programs (per
      semester, per credit) $1,310.00

Per Semester Installment
   M.B.A. in Management for
     Executives* $39,396.00

*Per installment, two installments per year for two years: M.B.A. in management for executives total charges $78,791,00.

M.B.A. in Health Sector
    Management
      specialization*...................$39,396.00
Per Academic Year
    Ph.D. in Clinical Psychology...$38,882.00
      Dissertation** $4,667.00
      Internship Charge**..............$245.00
      Dissertation Maintenance......$480.00
    Psy.D. in School Psychology
      (5-year Program) $38,882.00
      Dissertation per credit $1,310.00
      Summer Internship
       Charge** $245.00
      Dissertation Maintenance $480.00
    Psy.D. in School Psychology
      (3-year Program)
      per credit..........................$1,310.00
      Summer Internship
       Charge** $245.00
      Dissertation Maintenance......$480.00
    Doctorate of Nursing Practice
      per credit..........................$1,310.00
      Program Fee..........................$220.00
    Doctor of Pharmacy
      Program...........................$37,248.00
    Doctor of Pharmacy Dual Degree
      Program (M.S./M.H.S./M.A.
      Track) $39,470.00
    Doctor of Pharmacy Dual Degree
      Program (M.B.A./M.P.A.
      Track) $41,694.00
      E-learning Fee
      (per year) $1,245.00
      Student Services Fee
      (per year).............................$318.00
Per Summer Session***
    Wroxton College ....Tuition per credit
                is based on the
             student's program
                of study

Fees per Academic Year
    Matriculation maintenance:
      Master's Program,
        per semester...................$130.00
      Proficiency Exam $250.00
Application Fee...............................$40.00

*Total charges $78,791,00 for 21-month M.B.A. in management for health and for executives health sector management specialization.
**Per semester.
***Does not include airfare or technology fee.

Graduation Fee
    Master's Degree.........................$230.00
    Doctoral Degree.........................$465.00
Technology Fee
    Full-time...................................$870.00
    Part-time...................................$406.00
Health and Major Medical (Mandatory)*
    International Students (Full-
      time and part-time)
        Full year $1,460.00
        Spring semester only............$932.00
    Domestic (Full-time only)
        Full year $1,460.00
        Spring semester only...........$932.00

Additionally, there are other fees assessed for specific student requests such as thesis binding. For information on these and other fees, contact the Office of Enrollment Services.

All graduate students in residence will be assessed fees according to fee schedules of undergraduate residential students.

Credit Cards
(Page 22)

Updated.

The University has contracted with a third-party processor to provide this service, TouchNet. Students have the option to pay online.

Access information is available on the enrollment services website at http://inside.fdu.edu or directly on the student's WebAdvisor account.

The processor will charge a nonrefundable 2.75 percent convenience fee to the credit card user based on the amount of the payment for MasterCard, Visa, American Express and Discover. The convenience fee is for the use of the service and retained in full by the vendor not the University. Students may also pay by ACH (electronic check) with no fee assessed.

Students may access their account balance using the University's WebAdvisor

*Mandatory only for full-time students, can be waived for domestic and international students with documentation of alternative coverage.

Addendum

system or if students need assistance with determining their student account balance, they may contact the Office of Enrollment Services by calling:

• 201-692-2213 for the Metropolitan Campus or

• 973-443-8600 for the Florham Campus.

Terms of Payment

(Page 22)

Updated.

The payment deadlines are established as August 15 for the fall semester and January 15 for the spring semester. By these dates, students must have paid their tuition, room and board and fee charges in full or have been enrolled into an approved payment plan. All students are expected to pay summer and winter sessions' charges on their day of registration or prior to the term's start date. Payments may be made by check made payable to Fairleigh Dickinson University and mailed to the Office of Enrollment Services on the student's home campus. Students may also pay in person on either of the two campus locations. Refer to "Credit Cards" for additional information on how to make a payment using a third-party service provider.

Late Payment Charges

(Page 23)

Updated.

Payment Made in Period

Spring Semester

January 18–February 28
2% of payment

March 1–31
4% of payment

April 1–30
6% of payment

May 1–31
8% of payment

June 1–30
10% of payment

July 1 and thereafter
12% of payment

Summer Sessions

Summer payments are due at the time of registration. If payment is received after the end of the Summer Standard term, a 6% late fee will be applied to the payment made.

However, if the student stops attending the University and the account is taken over by the collections department, a 12% penalty will be assessed to the unpaid balance.

Winter Session

Week 1–Week 3 of Session

Students who pay their intersession charge after the third week of the term will be assessed a 6% late fee in the payment made. However, if the student stops attending the University and the account is taken over by the collections department, a 12% penalty will be assessed to the unpaid balance.

Academic Support and Research

Computer Facilities

(Pages 30–31)

Updated.

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, computer 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, 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™ 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 a 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, 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.

Addendum

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.

Academic Regulations

(Page 35)

Academic Load

Updated. First paragraph.

A student registered for 9 credits per semester is considered a full-time graduate student. Half-time status is applied to students who register for a minimum of 4.5 credits. A student may register for a maximum of 15 credits (18 credits in some cases) with written approval of the college dean and the department chairperson, school director or institute director of his/her major.

Candidacy for a Graduate Degree

Updated.

The application for graduation is located in WebAdvisor under Student Profile. Students should click on the link: Apply for Graduation. This must be done no later than eight months preceding graduation. Filing dates must be obtained from the Office of En-rollment Services. De-grees are awarded September 1, February 1 and the day of commencement in May.

Academic Programs

Biology (M.S.)

Metropolitan Campus

(Pages 57–58)

Updated.

Concentration in Business Areas

Elective Concentration Courses

Degree Requirements	Credits
ACCT5012	
Financial Accounting: End-User Applications	2
ACCT6012	
Managerial Accounting Applications	2
ECON5012	
Economic Analysis	2
ECON6012	
Managerial Economics	2
ENTR6012	
Entrepreneurship and Innovation	2
LAW6012	
Society, Ethicss and the Legal Environment of Business	2
LAW6657	
Applied Business Law	2
MGMT5012	
Foundations of Management	2
MGMT6012	
Organizational Behavior and Leadership	2
MGMT6112	
Managing Sustainability in a Global Environment	2
MGMT6621	
Strategic Human Resource Management	2
MKTG5012	
Marketing Principles	2
MKTG6012	
Strategic Marketing	2
MKTG6112	
Social Media Strategy	2

The above-listed elective courses have been approved by the graduate adviser and director of the business concentration for the Master of Science in biology degree.

The 5000-level courses are prerequisites for the 6000-level courses and must be completed with a minimum grade of C.

Business

(Pages 62–83)

Accounting Program (M.B.A.)

(Page 63)

Updated.

Specialization Requirements

Required Courses (6 credits)

	Credits
ACCT6630	
Intermediate AccountingI	3
ACCT6635	
Intermediate Accounting II	3

Elective (4 credits)

Choose from the following:

ACCT6605	
Federal Tax I: Individual	3
ACCT6617	
Cost: Measurement, Planning and Control	3
ACCT6618	
Auditing Concepts and Methods	3
ACCT6640	
Advanced Financial Accounting	3
ACCT6800	
Graduate Independent Study*	1–3

In lieu of a one-credit Graduate Independent Study course needed to complete 10 credits of required accounting courses, students may substitute ACCT6617 Cost: Measurement, Planning and Control, which is a 3-credit course, or ACCT6012 Managerial Accounting Applications, which is a 2-credit course.

Accelerated Program (M.B.A.)

(Page 69)

The Accelerated Program (M.B.A.) is no longer being offered.

Addendum

Master of Business Administration Program (M.B.A.) — Saturday M.B.A.

(Page 69)

Updated. Second paragraph.

The program consists of 21 courses, each comprising 2 credits, for a total of 42 credits. The in-class sessions (every other Saturday) are scheduled between 8:30 a.m. and 5 p.m. Program cohorts are established twice a year, in the spring semester (January start), as well as in the fall semester (August start). Students may apply for the fall cohort as late as the second week of August and for the spring cohort as late as the second week of January.

Master of Business Administration Program (M.B.A.) — Management for Executives

(Page 70)

Updated. First through fourth paragraphs.

The M.B.A. — Management for Executives program is structured such that it enables a current or future executive the opportunity to complete the academic requirements for the degree within 21 months while he or she continues to meet full-time work responsibilities. Each group of students (cohort) goes through the entire program as an integrated cohort, thereby developing a close working relationship that enriches and reinforces the learning process.

The program consists of 45 credits. The **general management specialty** includes two specialty courses (45-credit program) and **health sector management specialty** includes one specialty course (45-credit program).

Classes are scheduled on Saturdays, from 8:30 a.m. to 4:30 p.m.

The program curriculum also includes a required, 12-day study-abroad visit to an emerging market in Europe, Asia or Latin America. This visit is associated with the EXEC6509 International Business course. This visit is designed to provide the student with an appreciation of the opportunities and challenges associated with pursuing global business opportunities. In addition, students in the program also benefit from an executive coaching experience where each student works individually with an executive coach on issues ranging from career development to strengths and areas for improvement.

Master of Science (M.S.) — Accounting

(Pages 71–72)

Updated.

Requirements for the Master of Science Degree — Accounting

Track A

This 30-credit program is for students who have the bachelor's degree or concentration in accounting and is designed to meet the 150-hour educational requirements for the CPA Exam.

Completion of Track A will academically qualify students to take the CPA Exam in New Jersey.

Required Courses (15 credits)	Credits
ACCT6606	
Federal Tax II: Business Entities	3
ACCT6680	
Selected Accounting Topics	3
ACCT6682	
Advanced Auditing	3
ACCT6690	
Seminar: Accounting and Auditing Case Studies	3
LAW6657	
Applied Business Law	3

Electives (15 credits)	
Accounting Elective	3
Accounting or Tax Electives	6
Business Electives	6

Tax electives may be chosen from the tax courses offered by the M.S. in taxation program at the University. See pages 73–74 or http://www.fdu.edu/tax. Subject to prior approval, such tax courses may be counted toward the M.S. in taxation degree.

Track B

This 30-credit program is for students who do not have the bachelor's degree in accounting. NOTE: At least one undergraduate course in financial accounting is required for admission into the program.

The requirements for the New Jersey CPA Exam will change effective June 2017. In addition to 24 credits of accounting courses, 24 credits of business courses are also required. Six credits of business courses are already included in this Track B program. Students who have a business

background with sufficient number of business credits will qualify to sit for the New Jersey CPA Exam. Students who do not have any business credits or have insufficient business credits will have to take up to an additional 18 credits of business courses to take the New Jersey CPA Exam.

Required Courses (30 credits)

	Credits
ACCT6605	
Federal Tax I: Individual	3
ACCT6606	
Federal Tax II: Business Entities	3
ACCT6617	
Cost: Measurement, Planning and Control	3
ACCT6618	
Auditing Concepts and Methods	3
ACCT6630	
Intermediate Accounting I	3
ACCT6635	
Intermediate Accounting II	3
ACCT6640	
Advanced Financial Accounting	3
ACCT6680	
Selected Accounting Topics	3
FIN6020	
Financial Analysis for Accountants*	3
LAW6657	
Applied Business Law	3

Master of Science (M.S.) — Digital Marketing

New.

This new program is to be offered in fall 2017.

The emergent digital environment has been transforming all aspects of business. Firms, regardless of their specialty, industry and size, are increasingly using digital technologies to communicate with clients, recruit employees, form relationships with consumers and develop brands. Spending on digital marketing is rising with 80 percent of companies planning to increase their digital budget with digital ads estimated to make up 41.4 percent of total media ad expenditures by 2019. Digital engagement and marketing operations/technology are top areas for skill development. Specifically, digital marketing, social media, search-engine optimization and analytics-related jobs are particularly in high demand.

This **online program** is offered under the auspices of the department of marketing and entrepreneurship, Silberman College of Business, Florham Campus, Madison, New Jersey, and Metropolitan Campus, Teaneck, New Jersey.

The M.S. in digital marketing prepares students to be tech savvy and strategically creative to fill a range of digital marketing positions ranging from content creation and social media to creative services and production.

The 30–34 credit program is **delivered entirely online**. The program credits are distributed across a core curriculum followed by elective courses and a flexible experiential learning module (i.e. internship or thesis option).

Requirements for the Master of Science Degree

Foundation Module (4 credits)

Provides an understanding of the marketing discipline. May be waived based on prior academic preparation, reducing the degree to 30 credits.

	Credits
DSCI5012	
Statistical Data Analysis	2
MKTG5012	
Marketing Principles	2

Digital Marketing Core (14 credits)

In addition to covering core topics in marketing strategy and consumer behavior, this module will provide a comprehensive understanding of digital marketing, social media marketing and mobile marketing.

MKTG6012	
Marketing Strategy	2
MKTG6111	
Digital Marketing Strategies	2
MKTG6112	
Social Media Strategy	2
MKTG6113	
Mobile Marketing Strategies	2
MKTG6602	
Marketing Research	2
MKTG6603	
Consumer Behavior	2
MKTG6605	
Marketing Communications	2

Specialized Core (up to 14 credits)

Enables acquisition of specialized knowledge and skills based on personal interest and career path. Courses include topics related to search-engine optimization, web analytics, harnessing big data, database management and emerging technologies in marketing (courses under developmen).

Experiential Learning (4 credits)

Students may seek academic credit for internships, or they may write a thesis on a digital marketing topic of their choice.

*An ACCT or TAX course may be substituted with documentation of an equivalent finance class.

Addendum

Course Offerings

(Pages 75–87)

New and updated.

Courses offered fall, spring and/or summer are so noted. To determine availability of courses not so designated, please check with appropriate department chair.

Note: Prerequisite courses for 6000-level and higher courses typically include the discipline's M.B.A. core courses. Check with your adviser.

ACCT6630
3 Credits
Intermediate Accounting I
An in-depth study of generally accepted accounting principles as they relate to corporations; particular attention is given to financial reporting, revenue recognition, asset valuation and measurement. Basic difference in U.S. and international accounting are identified. Topics of current interest and controversy are introduced to prepare the student for more advanced courses. Prerequisite: ACCT5012 Financial Accounting: End-User Applications or undergraduate equivalent.

ACCT6635
3 Credits
Intermediate Accounting II
This course continues the in-depth study of financial accounting began in ACCT6630 Intermediate Accounting I. Pronouncements of the Financial Accounting Standards Board and their applications, such as in the areas of accounting for liabilities, stockholders equity, dilutive securities, earnings per share and statement of cash flows are examined. Basic differences in U.S. and international accounting are identified. Recent developments and prospects for the future change in accounting thought are considered. Prerequisite: ACCT6630 Intermediate Accounting I or undergraduate equivalent.

ACCT6690
3 Credits
Seminar: Accounting and Auditing Case Studies
A capstone course in the graduate program integrating technical and analytical accounting and auditing skills acquired throughout the program. The course makes exclusive use of case studies and group problem solving conducted by faculty and professionals from the corporate and public accounting sectors. Prerequisites: ACCT4242 Financial Accounting Theory II and ACCT4263 Auditing Concepts or ACCT6618 Auditing Concepts and Methods and ACCT6635 Intermediate Accounting II.

FIN6020
3 Credits
Financial Analysis for Accountants
The course covers the essential financial topics for the CPA exam. An introduction to time value of money and financial markets is followed by the valuation of bonds and stocks. Risk return models and capital structure are incorporated into a discussion of the cost of capital. Evaluation of cash-flow and project selection introduces the student to asset valuation. Analysis of financial ratios and of cash-conversion cycle lead to an understanding of the short-term management of the financial position of the firm.

MKTG6111
2 Credits
Digital Marketing Strategies*
This course explores digital marketing trends from a theoretical and practical perspective. The class will examine topics such as website design, search-engine optimization, search-engine advertising, email marketing, reputation management and analytics. Exercises and assignments are designed to provide students with the skills to develop, implement and evaluate effective digital marketing programs. Prerequisite: MKTG6012 Marketing Strategy.

MKTG6113
2 Credits
Mobile Marketing Strategies*
This course will examine the strategic uses of mobile marketing to be able to create and critique the mobile marketing plan. Students will be introduced to the quickly evolving mobile field and be exposed to topics such as mobile-ready websites, proximity marketing, mobile advertising, mobile applications, messaging and analytics. Prerequisites: MKTG6012 Marketing Strategy and MKTG6111 Digital Marketing Strategies.

*Distance learning course.

Communication (M.A.)

(Pages 104–108)

The M.A. in corporate and organizational communication has been revised into the communication major.

Revised.

The M.A. in communication is offered by the department of communication studies in the Maxwell Becton College of Arts and Sciences at the Florham Campus, Madison, New Jersey. The program offers continuing students and returning professionals a theory-based curriculum that incorporates communication principles and practices into applied learning in cultural, interpersonal and public contexts. The program's mission is to produce critically informed and creative graduates who will be competitive contributors to a challenging global workplace. Courses emphasize the development of skills in critical thinking, collaboration, leadership, ethics, interpersonal relations and cultural intelligence, as well as enhancing students' professional writing and presentation skills.

Admission Requirements

1. A bachelor's degree from an accredited college or university.

2. A cumulative undergraduate grade point ratio (CGPR) of at least 3.00 on a scale of 4.00.

3. Submission of an official score report for the Graduate Record Exami-nations (GRE) General Test taken within the last five years. The GRE may be waived if:

a) the applicant enrolls initially as a non-matriculating student and completes 9 graduate credits with a minimum CGPR of 3.00 and no grade below B;

b) the applicant is a Fairleigh Dickinson University communication studies major enrolled in the five-year B.A./M.A. program and has an undergraduate CGPR of 3.00;

c) the applicant is a non-Fairleigh Dickinson University student who has an undergraduate CGPR of 3.50 or higher; or

d) the applicant has completed a master's degree.

4. An essay articulating the prospective student's goals and expectations and the relationship of those goals and expectations to the program.

5. Two recent letters of recommendation.

Requirements for the Master of Arts Degree

1. The completion of a minimum of 30 credits.

2. The completion of the six required courses with a minimum grade of B in all six courses.

3. Students must complete three context courses, one each in the cultural, interpersonal and public contexts.

4. A minimum overall CGPR of 3.00.

5. The successful completion of the capstone experience.

Basic Requirements

Required Courses
(18 credits)   Credits
MCOM6001
 Principles and Practices
  of Communication 3
MCOM6002
 Professional Writing and Editing............3
MCOM6003
 Presentation Methods...........................3
MCOM6004
 Executive Lectures................................3
MCOM6005
 Group Communication and
  Leadership 3
MCOM6006
 Research Methods.................................3

Capstone Experience (3 credits)
MCOM6099
 The Capstone Experience:
  Principles into Practice.....................3

Context Courses (9 credits)
The following courses will provide students with experience — applying principles they learn to communication practices in culture, interpersonal and public contexts. Students must take one course in each context.

Cultural Context
MCOM7001
 Communication, Culture and Change....3
MCOM7002
 International Communication
  and Culture (at Wroxton College).....3
MCOM7003
 Communication and Globalization........3

Interpersonal Context
                                      Credits
MCOM7101
 Communication and Technology............3
MCOM7102
 Narrative Communication......................3
MCOM7103
 Language and Communication..............3

Public Context
MCOM7201
 PR in the Modern Organization.............3
MCOM7202
 Crisis Communication............................3
MCOM7203
 Strategic Communication.......................3

The Global Experience

The M.A. program offers a unique, intensive, 12-day seminar in international corporate communication and culture, held at Wroxton College, Fairleigh Dickinson University's campus in Oxfordshire, England (MCOM7002 International Communication and Culture). The seminar includes panel discussions and lectures conducted by recognized international experts from business, academia, politics and the media and offers unique insight into the corporate communication experience in other parts of the world.

Course Offerings

Courses offered fall, spring and/or summer are so noted. To determine availability of courses not so designated, please check with appropriate department chair.

Communication
Department of Communication Studies

MCOM6001
3 Credits
Principles and Practices of Communication
This course introduces new graduate students to foundational theories and essential concepts of communication studies and their application to everyday communication problems and unique communication practices they are likely to encounter in their professional lives. Course activities include introductions to the communication studies faculty and their areas of specialization, familiarization with key sources in the discipline and resources for accessing through the Monninger Center for Learning and Research and application of course materials to contemporary discourses and naturally occurring conversations.
Fall

MCOM6002
3 Credits
Professional Writing and Editing
The course introduces students to writing techniques in the academic, professional and workplace settings. Students will be required to communicate their intended message with clarity of thought and appropriate tone and style. Students will demonstrate their professional writing and editing skills with the two major goals of this course being to acquaint students with this step-by-step procedure of inquiry and to provide them with an opportunity to develop and polish their professional and scholarly writing skills.
Fall

MCOM6003
3 Credits
Presentation Methods
This course emphasizes the design and delivery of oral presentations by and for members of the corporate community. It focuses on the preparation and presentation of oral reports, summaries, analyses, studies and statements that seek to inform and persuade. Lectures, discussions and workshop sessions will consider such topics as brainstorming, audience analysis, gathering and organizing data, writing or preparing notes for a talk and presentation techniques.
Fall

MCOM6004
3 Credits
Executive Lectures
The Schering-Plough Executive Lecture Series is a forum in which communication experts and students explore skills such as collaboration, creativity and problem-solving relevant to a wide range of professional settings. Theories and their application to practice will be presented through readings, case studies, lectures and discussions. Students will actively engage in exercises and projects to develop and demonstrate comprehension of course content.
Spring

MCOM6005
3 Credits
Group Communication and Leadership
Organizations function and survive according to the ability of their members, and in particular their leaders, to communicate effectively. This course is an in-depth study of current theories of message-processing in organizations: leadership and followership communication, service leadership, innovation and creativity and more. Course work includes experiential learning that allows students to explore practical applications of theory. The course is as much about developing personal leadership as organizational leadership.
Spring

Addendum

MCOM6006
3 Credits
Research Methods
This is a survey course that examines both quantitative and qualitative approaches to investigating communication problems, practices and phenomena. The course provides students with an introduction to and experience in a diverse range of principles and methods appropriate for conducting research in a variety of professional communication contexts.
Spring

MCOM6099
3 Credits
The Capstone Experience: Principles into Practice
The capstone experience seeks to blend knowledge/theory and application/action. Students will be expected to apply concepts learned during the course of the program toward the completion (i.e. action) of a communication-based project of suitable scope within their own workplace or within another appropriate professional site. In addition to integrating knowledge gained from course work, capstone students must be able to conduct research to determine the viability of the projects they elect to undertake, and in presenting their project, must demonstrate the oral and written communication skills expected of those nearing the completion of a Master of Arts degree in communication. The capstone experience is taught as a blended, three-credit course, and students complete their projects under the supervision of the course instructor. All graduate faculty will be involved in the review of project proposals and final projects.
Fall, Spring

MCOM7001
3 Credits
Communication, Culture and Change
This course analyzes the relationship among communication, change management and organizational culture. Discussions and lectures include: definitions and types of organizational culture, methods for the study of corporate cultures, the essence and functions of organizational culture, diagnosis of corporate culture, managing and auditing communication and culture, perpetuating or reshaping cultures. In addition, the connection between effecting organizational change by transforming the culture is a dominant theme throughout the course.

MCOM7002
3 Credits
International Communication and Culture
This 12-day seminar is offered at Wroxton College, England, each summer and consists of invited speakers, case studies, site visits and leisure trips to London, Stratford-upon-Avon and Oxford. The objective of the seminar is make students familiar with the cultural, historical and political contexts in which professional and other interactions take place from a U.K. and European perspective. Students will also examine case studies conducted by U.K. media, advertising and public relations practitioners which show how issues of culture, history, politics and theory play out in actual corporate communication practice.
Summer

MCOM7003
3 Credits
Communication and Globalization
This course examines communication in the intercultural setting, both domestic and international. The course focuses on (a) how culture influences the communication process and the development of relationships, (b) the dynamics of intercultural encounters and c) the impact of globalization on intercultural communication.

MCOM7101
3 Credits
Communication and Technology
The course gets students to think critically about how digital innovations are shaping the future. This course aims to help students gain some perspective on the influences that the rapid transition to the digital age will have on almost every aspect of society. The class will discuss where society is today technologically speaking (and ask how it got there), but students will spend most of their time trying to figure out what impacts emerging communication technologies have and are likely to have on the essentials of the human condition: on sense of identity as individuals, on how they form and regulate their communities (on- and offline) and on how the nation and world function politically, socially, economically and so on.

MCOM7102
3 Credits
Narrative Communication
This seminar explores a variety of forms narrative communication takes in institutional and professional contexts (including myths, legends, rumors, cautionary tales and jokes) and considers the multiple functions they may serve for individuals and institutions working under contemporary postmodern conditions. Students are guided through a selection of theory and methodology offered in required readings and the application of them to exercises and a research project analyzing the form and function of narrative communication addressing a contemporary problem or crisis found in contemporary public discourse.

MCOM7103
3 Credits
Language and Communication
This course draws on contemporary theories of language and social interaction to examine how practices of human communication are designed and used to accomplish the work that people do in a variety of professions. Readings, exercises and assignments train students to analyze how language is used to constitute certain roles, relationships, activities and responsibilities. The approach of the class is pragmatic, microanalytic and highly interactive.

MCOM7201
3 Credits
PR in the Modern Organization
This course explores the challenges that face the modern organization and its communication professionals. Students will have the opportunity to analyze a range of communications situations to examine and apply appropriate research techniques necessary for effective campaigns. The course will put theory into practice by planning several campaigns and will expose students to the rigor of corporate standards, ethics and best practices in communications.

MCOM7202
3 Credits
Crisis Communication
This course specifically examines the dynamic practice of crisis communication on the organizational level. It seems that people live in a culture of crisis — organizations must be proactive and reactive in their public relations practices. Topics discussed will include image-repair strategies, options available to organizations facing crisis, crisis-management teams, crisis management as a form of public relations and examinations of case studies. Using the most recent scholarship, students will learn about this timely topic in an interactive and engaging environment.

MCOM7203
3 Credits
Strategic Communication
This course examines practices of communication that are goal-oriented, deliberate or purposive. Strategic communication will be studied in a variety of contexts and cases that demonstrate how it may be proactive, reactive and consequential. Cases will be studied in which communication is designed and targeted to achieve goals such as running a campaign; building or repairing a reputation; or bringing about social, cultural or institutional change. Course work will explore ways of dealing with real-world challenges in domestic and global contexts of professional communication.

Creative Writing (M.F.A.)

(Page 110)

Updated. First paragraph.

The Master of Fine Arts (M.F.A.) in creative writing is a low-residency program in which students work closely with published authors who serve as their mentors and teachers. During the 10-day residencies held twice each year, students participate in workshops; they meet with their mentors and fellow students; and they attend readings and interviews with visiting writers as well as a variety of literary events. During the rest of the academic year, each student works one-on-one with members of the faculty and participates in workshops online. This program gives students access to an international community of acclaimed and award-winning writers. The M.F.A. degree is offered in five disciplines — **poetry, fiction, creative nonfiction, writing for young adults and children** and **literary translation**.

(Page 111)

Updated.

Writing for Young Adults and Children Concentration

Students concentrating in writing for young adults and children must complete six nine-week modules in the genre.

The final (sixth) module in writing for young adults and children is the thesis module that emphasizes compiling and polishing material to be submitted for the M.F.A. thesis — a collection of stories or part of a full-length novella or novel. Students concentrating in other genres may elect to enroll in writing for young adults and children for their one elective module.

Course Offerings

Courses are offered in the fall and spring. Students will be registered by the M.F.A. coordinator.

Creative Writing

Department of Literature, Language, Writing and Philosophy

CRWR7509
6 Credits
Writing for Young Adults and Children
In the writing for young adults and children concentration, students will study the particular craft consideration in writing for young adult and children readers — voice, pacing, structure and the idea of the "high concept" young adult and children story. Through workshops, discussions, close readings of young-adult and children novels and other works of fiction and one-on-one study with their mentors, students will produce stories or chapters of fiction for young adults and children.

Cybersecurity and Information Assurance (M.S.)

New.

This new program will be offered in fall 2017.

Hardly a day goes by without some news on cyberattacks. As the number of cyberattacks keeps increasing every day, clearly more cybersecurity professionals will be needed to plan, implement, upgrade, maintain and monitor security measures to protect the information infrastructure, computer networks and systems and digital data of business organizations and local, state and federal agencies. Consequently, the cybersecurity profession offers excellent career opportunities, outstanding average starting salary, excellent median long-term salary, good job-growth projection and great career fulfillment including protecting the nation's information infrastructure.

Fairleigh Dickinson University is officially designated as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) institution by the National Security Agency (NSA) and the Department of Homeland Security (DHS). FDU's Master of Science in cybersecurity and information assurance (CSIA) degree program is created in response to meet the challenges in the field of CSIA. The program prepares its graduates for employment or further advanced study, including doctorates, in this field and other related areas. The program is facilitated and supported by the creation of a state-of-the-art Cyber Defense and Digital Forensics Lab and the recent enhancement of several computer and networking labs.

Students in the program will learn the fundamentals of operating systems, computer networks, cybersecurity, applied cryptography and penetration testing and vulnerability analysis. With the foundational courses as stepping blocks, students move on to take advanced courses in one of the two focus areas: **network security administration** and **secure software development**, satisfying the requirements of CAE-CDE knowledge units of those focus

Addendum

areas as recognized by NSA and DHS. In particular, students will learn to establish information security protocols, build firewalls and defend against security intrusions, use encryption and protect information, regulate access to data, establish virus-protection systems, implement business continuity and disaster-recovery plans, conduct penetration tests and analyze system vulnerabilities, develop secure software and help resolve information technology (IT) issues related to security. As a culmination of their studies, students are encouraged to work on a project under the supervision of a faculty adviser or to undertake internship to obtain practical work experience.

The program is offered under the auspices of the Lee Gildart and Oswald Haase School of Computer Sciences and Engineering, University College: Arts • Sciences • Professional Studies, Metropolitan Campus, Teaneck, New Jersey.

Admission Requirements

1. Graduation from an accredited college or university with a satisfactory academic record.

2. Submission of an official score report for the Graduate Record Examinations (GRE) General Test taken within the last five years. The GRE may be waived if the applicant enrolls initially as a nonmatriculating student and completes 9 graduate credits in CSIA with a minimum cumulative grade point ratio (CGPR) of 3.00 and no grade below C or is a graduate of FDU's computer science, electrical engineering, information technology or closely related programs with an undergraduate CGPR of 3.00 or is a graduate of such programs from other institutions with an undergraduate CGPR of 3.50. This GRE waiver policy is only applicable to applicants who graduated from a regionally accredited college or university in the United States. (The GRE requirement also is waived for applicants who have completed a master's degree from a regionally accredited college or university in the United States.)

3. Three letters of recommendation.

Applicants who have not completed all requirements for admission to the degree program may be permitted to enroll in classes for credit on a nonmatriculated or nondegree basis.

Requirements for the Master of Science Degree

1. Students admitted to the program may be required to fulfill a set of prerequisite courses, which can be waived based on their academic credentials. They must earn a CGPR of at least 2.75 for the prerequisite courses if required or be subject to dismissal from the program. They may take no more than 6 credits of regular graduate (core or elective) courses before completing all of the prerequisites.

2. Students must successfully complete 30 credits, including 15 credits of core requirements and 15 credits of electives, beyond any required prerequisites. In consultation with an academic adviser, students can choose five courses (15 credits) from a list of approved electives based on their interests and career goals. Alternatively, they are encouraged to concentrate on one of two focus areas, **network security administration** and **secure software development**, each with three courses (9 credits), and to choose two more courses (6 credits) from the list of approved electives. Students must earn a CGPR of at least 2.75 for the 30 credits beyond the prerequisite courses.

Prerequisite Courses (18 credits)

The prerequisite courses for the M.S. in cybersecurity and information assurance program are:

	Credits
CSCI5505	
Introduction to Computer Programming	3
CSCI5525	
Introduction to Computer Science	3
CSCI5555	
Data Structures	3
CSCI5565	
Assembly Language	
or	
CSCI3249	
Computer Organization	
or	
EENG2287	
Microprocessor System Design I	3

Core Requirements (15 credits)

The required core courses for the M.S. in cybersecurity and information assurance program are:

	Credits
CSCI6638	
Operating Systems	3
CSCI6731	
Computer Networks	3
CSCI6738	
Cybersecurity	3
CSCI6740	
Applied Cryptography	3
CSCI6870	
Penetration Testing and Vulnerability Analysis	3

Electives (15 credits)

Students are encouraged to take three courses (9 credits) from one of the following two focus areas and two more courses (6 credits) from the list of approved electives as provided below. Alternatively, students can also take any five courses (15 credits) from the approved electives based on their interests and needs.

Electives for Network Security Administration Focus

CSCI6863	
Supply Chain Security and Systems Certification	3
CSCI6869	
Network Security	3
CSCI6873	
Firewalls and Intrusion-detection Systems	3

Electives for Secure Software Development Focus

CSCI6620	
Software Engineering	3
CSCI6836	
Computer Algorithms	3
CSCI6860	
Secure Software Development and Analysis	3

Approved Electives

CSCI6620	
Software Engineering	3
CSCI6623	
Database Management Systems	3
CSCI6811	
Advanced Special Projects	3
CSCI6836	
Computer Algorithms	3

Course Descriptions

See "Course Offerings," Cybersecurity and Information Assurance addendum this page, Computer Science pages 99–104 and Management Information Systems page 169.

Course Offerings

Courses offered fall, spring and/or summer are so noted. To determine availability of courses not so designated, please check with the school.

Cybersecurity and Information Assurance

Lee Gildart and Oswald Haase School of Computer Sciences and Engineering

CSCI6740
3 Credits
Applied Cryptography
This course introduces cryptographic algorithms, protocols and their uses in the protection of information in various states. Topics include block ciphers, data encryption standard (DES), advanced encryption standard (AES), secret and public key encryption (RSA), cryptographic hash functions (e.g., MD5, SHA-3), digital signatures and the key distribution (PKI) problem. Types of attacks and application of cryptography in secure sockets layer (SSL), virtual private networks, secure storage and other security issues are also discussed.

CSCI6811
1–3 Credits
Advanced Special Projects
Advanced projects of special interest to individual students.
Fall, Spring

CSCI6836
3 Credits
Computer Algorithms
An introduction to algorithm development. Topics include complexity analysis, practical algorithm development and common algorithm methods, including recursion, greedy algorithms, dynamic programming, backtracking and branch-and-bound. The course will include programming assignments implementing the algorithms discussed in class. Prerequisite: CSCI5555 Data Structures or permission of instructor.

CSCI6860
3 Credits
Secure Software Development and Analysis
The course introduces the characteristics of secure programs and methods of implementing programs that are free from vulnerabilities. Topics include robust and defensive programming, input validation, buffer overflows, data obfuscation and protection, secure software development life cycle, security assessment, threat modeling and architecture security, design and testing methodologies, fuzz testing, static and dynamic analysis, source and binary code analysis tools and methods. The course will include assignments on analyzing software, either in source code or binary form, to find any vulnerability. Prerequisites: CSCI5505 Introduction to Computer Programming and CSCI6738 Cybersecurity.

CSCI6863
3 Credits
Supply Chain Security and Systems Certification
The course deals with the security issues associated with building complex (software and/or hardware) systems out of third-party components of unknown (and potentially unknowable) origin. Topics covered include elements that impact the supply chain, provider security review, storage and distribution, supply chain security program compliance, security auditing and assessments, resources and technology (GPS, RFID). The course additionally introduces the DoD processes and regulations associated with the certification and accreditation of operational systems and the authorities and processes for the approval of their operation.

CSCI6870
3 Credits
Penetration Testing and Vulnerability Analysis
The course provides an overview of system vulnerabilities and methods of discovering ways of exploiting vulnerabilities to gain access to a system. Topics include identifying flaws and vulnerabilities, vulnerability-assessment tools, vulnerability scanning, exploiting scanner findings, web application penetration testing, network privilege escalation, social engineering attacks, patch management, configuration management. Projects on planning, organizing and performing penetration testing on a simple network will be pursued. Prerequisites: CSCI6638 Operating Systems, CSCI6731 Computer Networks and CSCI6738 Cybersecurity.

CSCI7870
3 Credits
Linux System Administration
This course introduces the concepts of system administration as they apply to the Linux operating system. Topics include servers and data centers; virtualization; directories and file systems; access control; Linux and Windows; regular expressions and scripting; processes and services; network, network software and the internet; security policy and ethics; change management, backup and restore; database security and installation. Secure configuration of Linux systems will be pursued.

CSCI8891
1–3 Credits
Internship/Work Experience
The course provides on-the-job education and training in the concepts presented in the graduate computer science, electronic commerce, management information systems and cybersecurity and information assurance curricula. Students must submit, for the school's approval, a proposal from the employer detailing the nature of the intended work. Weekly contact must be maintained with the school's adviser to confirm the quality of the work experience. A report at the conclusion of the work experience is required, detailing both the educational and training aspects of the job. Prerequisite: students must have been enrolled in the computer science, electronic commerce, management information systems and cybersecurity and information assurance programs for at least nine months.

Education

Education for Certified Teachers (M.A.)

(Pages 116)

New.

• **Bilingual/Bicultural Education Specialist Certificate** — 12-credit approved New Jersey State Teacher Certification in bilingual/bicultural education as a second certificate, plus 12-credit Supervisor License and 12 credits to complete a master's degree

(Page 117)

Updated.

Requirements for the Master of Arts Degree

Specialization Programs (18 credits)

Candidates select from one of the following programs described in detail on this page and pages 117–121:
• Bilingual/Bicultural Education (BBE) — requires 12 credits
• English as a Second Language (ESL)
• Instructional Technology Specialist (ITS)
• Literacy/Reading Specialist (LRS)
• Mathematics Education Specialist (MES)
• Professional Studies Concentration (PROST)
• Teacher of Students with Disabilities (TSD) — requires 21 credits

New.

Bilingual/Bicultural Education (BBE) Specialist Certificate Program

The bilingual/bicultural education programs require teachers who can provide content-specific instruction in an environment that promotes student bilingual/bicultural development. Course work that leads to the bilingual/bicultural education New Jersey teacher endorsement provides certified teachers with the knowledge and skills they need to meet this dual responsibility.

Fairleigh Dickinson University's Bilingual/Bicultural Education Certification Program was developed as a 12-credit concentration covering the essential topics of applied linguistics, language acquisition, biliteracy development, pedagogical theory and teaching methods of content areas in bilingual/bicultural settings. The Bilingual/Bicultural Education teacher certification is not a stand-alone endorsement but must be paired with a standard co-certificate in the subject or grade level to be taught.

Bilingual/Bicultural Education Specialist Certificate Program Required Courses (12 credits)

Credits

EDUC6550
Methodology in Bilingual/
Bicultural Education........................3
EDUC6551
Language Acquisition in Bilingual/
Bicultural Contexts..........................3
EDUC6574
Applied Linguistics for Language
Teachers..3
EDUC6654
Literacy Development for
Second-language Learners...............3

The 12-credit certification program may be applied toward a 36-credit M.A. in education for certified teachers degree.

Electrical Engineering (M.S.E.E.)

(Pages 146–147)

Revised.

Requirements for the Master of Science in Electrical Engineering Degree

Students must earn a total of 30 credits with a grade point ratio of at least 2.75. All courses are 3 credits.

Core Requirements (15 credits)

Credits

EENG6633
Digital Signal Processing.......................3
EENG6747
Digital Communications 3
EENG7701
Logic System Design.............................3
EENG7709
Embedded Systems................................3
EENG7725
Automatic Control Systems I.................3

Specialization Elective Courses (9 credits)

Select three courses from the areas of specialization shown. Any course may be selected, although it is recommended that they are in the same area.

Digital Signal Processing and Communications Specialization
EENG6629
Random Processes in
Communications...............................3
EENG7738
Wireless Communication 3
EENG7748
Advanced Digital Communications........3
EENG7753
Applications of Digital Signal
Processing..3
EENG7773
Digital Image Processing.......................3
EENG7852
Digital Signal Processing with C
and DSP Processors..........................3

Computers Specialization

Credits

EENG6610
  Computer-aided Analysis and Design.....3
EENG7702
  Microprocessor Design..........................3
EENG7707
  Neural Networks and Fuzzy
    Logic Systems.................................3
EENG7737
  Computer Communication Networks.....3
EENG7773
  Digital Image Processing........................3

Devices and Systems Specialization

EENG6601
  Linear Systems I....................................3
EENG6610
  Computer-aided Analysis and Design.....3
EENG7706
  Robotics Engineering............................3
EENG7715
  Integrated Circuit Devices.....................3
EENG7755
  VLSI Systems (Digital)..........................3
EENG7775
  Optics...3
EENG7830
  Special Topics in Electrical
    Engineering (Power Systems)............3

Additional Elective Courses (6 credits)

Electives may include any graduate electrical engineering courses. Students have the option of registering for a 3-credit internship after completing 18 graduate credits. A 6-credit thesis option is also available in consultation with electrical engineering faculty. Courses in other technical programs such as computer science may be taken with adviser permission.

Hospitality Management Studies (M.S.)

(Pages 164–165)

Revised.

Admission Requirements

Prerequisite Program for Non-hospitality Majors

The below foundation courses are required for students with non-hospitality degrees and are taken as free elective credit subjects.

Credits

HRTM6100
  Hospitality (Operations)
    Management* 3
HRTM6200
  Tourism Destination Management*........3

Internships

Internships are suggested for students with non-hospitality degrees and no prior industry hospitality work experience. Internships may be taken as free elective credits (3 credits) or on a non-credit basis depending if both foundation courses are required. If students take the internship for 0 credits, then there will be a $500 fee per semester for any faculty-guided internship work experience.

Requirements for the Master of Science Degree

The M.S. degree in hospitality management studies has reduced its degree requirements from 36 credits to 33 credits.

Course Requirements (33 credits)

Required Hospitality Management Courses (9 credits)

Credits

HRTM7715
  Special Project*....................................0
HRTM7751
  Research Methodology I**....................3
HRTM7752
  Research Methodology II*** 3
HRTM7753
  Graduate Capstone****..........................3
    Total........9

Supporting Hospitality Management Courses (18 credits)

HRTM7708
  Organizational Communication
    and Conflict Management.................3
HRTM7710
  Current Concepts in Leadership.............3
HRTM7713
  Financial Management...........................3
HRTM7714
  Advanced Human Resource
    Management 3
HRTM7716
  Service Management..............................3
HRTM7734
  Global Marketing..................................3
    Total......18

Free Electives (6 credits)

This area is to be chosen by students with approval from an adviser.
    Total........6
    Total Program......33

Graduate students have seven years to complete all of the course work requirements of the M.S. degree including the Special Project.

*Must be taken in the first semester.

*$500 recurring semester fee until completed.
**Must be taken in the first or second semester.
***Taken after completing 18 credits.
****Taken after completing 24 credits.

Addendum

Course Offerings

Courses offered fall, spring and/or summer are so noted. To determine availability of courses not so designated, please check with the school.

Hospitality Management Studies

International School of Hospitality and Tourism Management

Prerequisite Program for Non-hospitality Majors

HRTM6100
3 Credits
Hospitality (Operations) Management
Topics reviewed will include food and beverage management, managerial accounting and hospitality operations management. Students must develop a comprehensive business plan project that integrates these key areas to successfully complete the requirements for this course.

HRTM6200
3 Credits
Tourism Destination Management
Topics reviewed will include tourism, sales and marketing and human resource management. Case studies of various global destination marketing organizations will be analyzed and discussed. The term project will consist of planning and developing a Tourism Destination Management project for a chosen city in Canada or the United States.

Media and Professional Communication (M.A.)

(Page 170)

Updated.

Admission Requirements

1. Students must have a bachelor's degree from an accredited college or university with at least 24 credits in communication, media studies or a related field and a 3.00 cumulative grade point ratio.

2. Two letters of recommendation.

3. A writing sample.

4. Applicants who have not completed all requirements for admission to the degree program may be permitted to enroll in classes for credit on a nonmatriculated or nondegree basis.

5. International students must score a minimum of 79 on the Test of English as a Foreign Language (TOEFL) examination on the computer-based exam.

Requirements for Master of Arts Degree

Degree Requirements (30 credits)

Basic Requirements (6 credits)

	Credits
COMM6022 Graduate Research Methods and Scholarly Writing	3
COMM6041 Media Theory	3

Electives (24 credits)

Pharmacy (Pharm.D.)

(Page 186)

The School of Pharmacy changed its name to the School of Pharmacy and Health Sciences to reflect its new expansion.

(Page 187)

Updated.

ACPE Accreditation Status

Fairleigh Dickinson University School of Pharmacy and Health Sciences' doctor of pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60503, (312) 664-3575; fax (312) 664-4652, website www.acpe-accredit.org.

Physical Therapy (D.P.T.)

New.

The doctor of physical therapy (D.P.T.) program, scheduled to be offered in 2018, will seek to educate practitioners who are focused on the assessment, diagnosis, treatment and overall health and wellness of patients of all ages and conditions to promote pain reduction, restoration of function, prevention of disability and commitment to overall health and wellness. The program will be focused on incorporating the five core values of health science programs within the University to empower the patients they treat and serve. These core health science values include: Think • Lead • Advocate • Communicate • Implement.

This program is offered under the auspices of the School of Pharmacy and Health Sciences, Maxwell Becton College of Arts and Sciences, Florham Campus, Madison, New Jersey.

Service Innovation and Leadership (M.S.)

(Pages 227–228)

Updated.

Requirements for the Master of Science Degree

The M.S. in service innovation and leadership has reduced its degree requirements from 36 to 30 credits.

All students enrolled in the program must complete the following:

Required Courses (27 credits)
Credits

MSSIL7001
   Introduction to Graduate Studies
    and Research* 3
MSSIL7003
   Current Concepts of Leadership
    in the Service Industry......................3
MSSIL7004
   Service Management.............................3
MSSIL7005
   Managing Service Industry
    Financial Systems 3
MSSIL7006
   Human Resource Management
    and Development in the
    Service Industry................................3
MSSIL7007
   Global Marketing for the
    Service Industry................................3
MSSIL7008
   Organizational Communication
    and Conflict Management................3
MSSIL7009
   Service Capstone**..............................3
MSSIL7010
   Technology in the Service Industry........3
             Total......27

Electives (3 credits)
             Total........3
        Total Program......30

*Must be taken in the first semester.
**Must be taken in the last semester.

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