Maxwell Becton College of Arts and Sciences

Majors

Allied Health Technologies (B.S.A.H.T.)

Concentration: radiologic technology

Biochemistry (B.S.)

Concentration: prepharmacy

Biology (B.S.)

Concentrations: anatomy and physiology, cell and molecular biology, ecology and environmental biology, prepharmacy

Minor: biology

Chemistry (B.S.)

Minor: chemistry

Clinical Laboratory Sciences (B.S.C.L.S.)

Concentration: medical laboratory science (medical technology)

Communication Studies (B.A.)

Concentrations: human communication, multimedia journalism, public relations

Minors: advertising, broadcasting, communication, journalism, political communication, public relations

Computer Science (B.S.)

Concentrations: cybersecurity, data mining, game development

Minor: computer science

Creative Writing (B.A.)

Minor: creative writing

Criminology (B.A.)

Minor: criminology

English Language and Literature (B.A.)

Concentrations: English and American literature, world literature

Minor: English language and literature

Film and Animation (B.A.)

Concentrations: 2D animation, 3D animation, cinematography, directing, editing, film production, video game animation

Minors: animation, cinema studies, film production, screenwriting/dramatic writing, 3D video game animation

Fine Arts (B.A.)

Concentration: studio arts Minors: art history, studio arts

Government and Law (B.A.)

Concentrations: global politics, legal studies Minor: government and law

Graphic Design (B.A.)

Concentrations: illustration, print design, web design Minors: graphic design, web design

History (B.A.)

Concentrations: elementary education, elementary education and special education, secondary education Minor: history

Humanities (B.A.)

Minor: humanities

Mathematics (B.A.)

Concentrations: actuarial science, computer science, financial mathematics

Minors: mathematical statistics, mathematics, mathematics for cybersecurity, mathematics for the business world

Medical Imaging Sciences (B.S.M.I.S.)

Concentrations: diagnostic medical sonography, vascular technology

Philosophy (B.A.)

Minor: philosophy

Psychology (B.A.)

Concentration: behavioral neuroscience Minor: psychology

Sociology (B.A.)

Minors: anthropology, sociology

Theater Arts (B.A.)

Concentrations: acting, design and technical theater, directing, musical theater, playwriting, theater studies Minors: dance studies, music, musical theater, theater arts

Discipline Minors

French language, geography, German language, Italian language, physics, Spanish language

Interdisciplinary Minors

Advertising, African-American studies, British studies, children's studies, dramatic literature and performance, economics, entertainment and business management, forensics, gender studies, globalization and society, government and law, Italian studies, Japanese studies, Latin-American studies, personalized, prelaw, screenwriting/dramatic writing

Teacher Certification

General Curricular • College Core Curriculum

Maxwell Becton College of Arts and Sciences Florham Campus

Florham Campus, Madison, New Jersey Geoffrey S. Weinman, Dean

The mission of the Maxwell Becton College of Arts and Sciences is to develop the intellectual, creative and career potential of our diverse student body by offering a demanding curriculum in a caring and supportive environment. The College is committed to being a superior teaching institution.

Through its curriculum, Becton College aims to develop in students the skills, intellectual orientation and knowledge to achieve their educational, professional and personal goals.

The flexibility of the Becton College General Education curriculum allows each student to develop an individualized program that combines major and minor fields with clusters of related electives. The curricular distribution requirement assures an understanding of the methods used by disciplines in the humanities, social and behavioral sciences, creative arts and laboratory sciences. Students may select courses suited to their level of preparation and, when applicable, apply them to majors, major corequisites, minors or elective clusters. Because the opportunities are so varied, students should work closely with their advisers as they plan their choices.

Total University Core/Becton College general education requirements range between 46 to 48 credits, depending upon the student's program and assuming no waivers. The minimum number assumes that students will select courses that fulfill dual requirements. The maximum assumes that the student will not select any courses that satisfy more than one requirement.

The curriculum culminates in the student's academic major, which is designed to give deeper and more specialized knowledge and abilities in a specific discipline. The major calls for advanced application of the fundamental skills, intellectual orientation and multidisciplinary perspectives acquired in the College general education requirements program.

Many of the majors listed on pages 51–52 also offer special areas of concentration, described in the appropriate section by major. Several accelerated programs are offered as well. They are: Bachelor of Arts in communication studies/Master of Arts in communication (page 214), Bachelor of Arts in psychology/Master of Arts in industrial/organiza-

tional psychology (page 223), Bachelor of Arts/Master of Public Administration (page 207), Bachelor of Arts or Science/ Master of Arts in Teaching (page 208), Bachelor of Science in biology, chemistry or biochemistry/Doctor of Pharmacy (pages 244, 257, 266), Bachelor of Science in biochemistry, biology or chemistry/Doctor of Osteopathic Medicine (page 255), Bachelor of Science in biology/Doctor of Dental Medicine (page 251), Bachelor of Science in biology/Doctor of Chiropractic (page 249) Bachelor of Science in biology/Doctor of Podiatric Medicine (page 263), Bachelor of Science in biology/Doctor of Veterinary Medicine (page 264) and Bachelor of Science in biology/Medical Doctor (pages 253–255).

Seven- and Eight-year Combined Degree Programs: Students with a strong SAT score and high school grade point average (GPA), with an interest in attending a health professional school, may be eligible to participate in one of the University's combined degree programs. Qualified students initially receive a conditional acceptance into one of the programs and then apply for final acceptance to move on to the professional school in the third year at FDU, once certain GPA, standardized test and course requirements are met. Typically, students in the combined degree programs complete three years at FDU in an accelerated biology or chemistry major, depending on the advancedegree requirement, and then begin their studies at the partner institution in the fourth year. The first year of professional school counts towards the FDU degree. Consult with a prehealth adviser for a list of current combined degree programs. Past programs have included a combined B.S./D.M.D. with Rutgers School of Dental Medicine, combined degree programs with Ross University Schools of Medicine and Veterinary Medicine, New York College of Podiatric Medicine and various chiropractic colleges including Logan College of Chiropractic.

Preprofessional Studies in the Health Sciences at FDU: Students preparing for careers in medicine, dentistry or veterinary medicine can major in any area, but should complete certain courses required for entry into professional school in the health sciences. A list of required courses can be obtained from the Advising Center. The required courses include taking biology and chemistry with

lab in the freshman year. Students should attend an information session held once a semester by the preprofessional adviser on other ways to prepare for professional school including volunteering, summer programs and standardized-test preparation.

In the junior year, students have the option of preparing a portfolio for the Health Preprofessional Committee, consisting of faculty from biology, chemistry and psychology. The committee evaluates the student's academic performance and overall preparedness for professional school, and then composes a letter of recommendation on the student's behalf. The contents of the letter remain confidential, and the student has the option of having the letter sent or not sent on to the professional school to be included in the application. Most students applying for professional school during their time at FDU apply nine to 12 months before graduation, depending on school deadlines.

Students with questions on applying to professional schools in the health sciences can contact Dr. James Salierno at salierno@fdu.edu or (973) 443-8776. Qualified students have the opportunity to join the University Honors Program, see page 50.

General Curricular Requirements

Candidates for the degrees of Bachelor of Arts or Bachelor of Science must complete a minimum of 120 credits of course work, including completion of the College's general education requirements, which requires from 46 to 48 credits, depending on exemptions, distributed as outlined on the next page. Programs leading to the Bachelor of Arts degree require from 30 to 45 credits in an area of concentration. The programs for the Bachelor of Science degree require a greater number of credits. Minors usually consist of 15 credits and are available in most disciplines in the College. The College also offers interdisciplinary minors. In addition to completing the requirements for the College general education requirements and for their majors, students shall complete such additional credits in free electives to meet the minimum requirement of 120 credits.

College General Education Requirements

Below is the core curriculum (general educations requirements) for those stu-

College Core Curriculum

Maxwell Becton College of Arts and Sciences Florham Campus

dents entering Becton College in the fall semester of 2017 and therafter.

A comprehensive General Education requirement is indispensable to a liberal arts experience.

College Writing (6 credits)

The basic writing skills for all Becton College students are ENGW1001 Composition I: Rhetoric and Inquiry and ENGW1002 Composition II: Research and Argument. ENGW1001 is a prerequisite for ENGW1002. The second course should be completed within the student's first 64 credits.

Based on placement scores, some students may be required to complete ENGW1000 Introduction to Composition to achieve the prerequisite skills needed for enrolling in ENGW1001 Composition I: Rhetoric and Inquiry.

Quantitative Analysis (6-7 credits)

Students must complete 6 to 7 credits of quantitative analysis with one course from the following: MATH1107 Precalculus, MATH1126 Contemporary Mathematics or MATH1128 Mathematical Methods, along with an additional course selected in consultation with an academic adviser in the student's major.

Students majoring in biology, chemistry, computer science or mathematics should register for either MATH1107 Precalculus or MATH1203 Calculus I, as determined by placement examination scores.

Those with placement scores below the standards for the above four courses (MATH1107, MATH1126, MATH1128, MATH1203) must complete courses in prerequisite skills. Students who achieve a satisfactory score on the SAT or placement test may waive 3 credits of the Quantitative Analysis requirement.

Public Speaking (3 credits)

This requirement may be fulfilled through successful completion of COMM2099 Professional Communications or SPCH1107 Fundamentals of Speech.

Ethical and Moral Analysis (3 credits)

Specific courses in ethics meet this requirement.

Modern Language (3–4 credits)

All Becton students must demonstrate proficiency in a foreign language at the 2000 level either by completing that course in their selected language or by demonstrating proficiency at that level on

a placement test. The department of literature, language, writing and philosophy currently offers instruction at the introductory 1002 level for Arabic, Spanish, French, Italian, German, Chinese and Japanese.

Humanities (6 credits)

Courses in disciplines such as art history, cinema, history, literature, music-humanities, philosophy and theater-humanities meet this requirement. One course must be at the 2000-level or above.

Social and Behavioral Sciences (6 credits)

Courses in disciplines such as African-American studies, anthropology, criminology, communication studies, economics, geography, government and law, psychology and sociology meet this requirement. One course must be at the 2000-level or above.

Natural Sciences (7 credits)

Courses from multiple disciplines including biology, chemistry, computer science and physics meet this requiremement.

Creative and Expressive Arts (3 credits)

Students select from courses in animation, art, dance, graphic design, film, music and theater to meet this requirement.

Global and Comparative Studies (3 credits)

Students select from a wide range of courses drawn from such disciplines as anthropology, art history, criminology, film, geography, history, literature, languages and theater.

University Requirements (8 credits)

	Credits
UNIV1001	
Transitioning to University Life	·1
UNIV1002	
Preparing for Professional Life.	1
UNIV2001	
Cross-cultural Perspectives	3
UNIV2002	
Global Issues	3

The Major

Each student must select a major, consisting of group-related courses in an area of specialization, before entering the fifth or sixth semester. The courses in a major must total at least 30 credits including introductory-level courses, but may not total more than 45 in a single discipline for programs leading to the Bachelor of Arts degree. A greater degree of specialization is allowed in programs leading to the Bachelor of Science degree. Details and explanations of the various major programs are set out in the following pages. A 2.33 cumulative grade point ratio in the major and, if applicable, in the second major is required in the Maxwell Becton College of Arts and Sciences in order to graduate.

Electives

Students may wish to take introductory courses in their major field of interest before the fifth or sixth semester. Other electives may be chosen from courses offered in any of the undergraduate colleges if prerequisites can be met. Qualified students may request permission to elect graduate courses in their seventh and eighth semesters.

ROTC (Reserve Officers' Training Corps)

The College of Arts and Sciences will accept 17 credits in military science as electives counting toward the 120-credit minimum required for the bachelor's degree.

Becton College Learning Communities

The Maxwell Becton College of Arts and Sciences offers several opportunities for incoming students to participate in designated Learning Communities (LC) as part of their first-year experience. LCs make use of a cohort system whereby students will take introductory classes in the major (and, in some cases, General Education courses) with other incoming students who either share the major or the area of interest. Students are also placed into an LC-specific section of UNIV1001 Transitioning to University Life. UNIV1001 is the first course in the University Core program, which provides support for the transition to University life.

In addition to completing course work with a group of like-minded students, LCs also engage in activities as a group outside of the classroom. These activities may include field trips or visits from invited guests with expertise in their respective fields, hands-on and project-based research with faculty, as well as engaging with the local community through service projects and events.

Honors Programs • Double Majors and Minors

Maxwell Becton College of Arts and Sciences Florham Campus

Overall, Learning Communities offer a unique opportunity to work — both inside and outside the classroom — with both full-time faculty and fellow students in their major during their first year of study at the Florham Campus. Interested students will have the opportunity to join a Learning Community (topics and disciplines of the Learning Communities rotate from year to year) when preparing their first-year schedule.

Independent Study

Juniors and seniors may take from 1 to 3 credits each semester in individual intensive study under the direction of a specific faculty member, according to the criteria set forth for such independent study by the department concerned. Consent of the instructor, department chairperson and dean is required.

Students may count no more than 12 credits of independent study toward the completion of the minimum requirements of their majors or the minimum requirements for their degrees. Students may elect independent study in any of the discipline offerings of the College.

Honors Programs

Discipline-oriented Becton Honors Program

The honors program at FDU's Maxwell Becton College of Arts and Sciences is the right choice for the student whose goal is excellence. The enhanced honors curriculum provides in-depth study for those striving for proficiency in their major fields of study. In FDU's tradition of excellence, students develop a strong foundation of skills that will benefit them in many future endeavors.

A student may select the Becton Honors Program in most of the College's majors, including:

- Biology
- Chemistry
- Computer Science
- Creative Writing
- English Language and Literature
- Film and Animation
- Fine Arts
- Government and Law
- History
- Mathematics
- Psychology
- Sociology

Students in the Becton College Honors Program enjoy a supportive and challenging academic atmosphere. The demanding and rigorous curriculum is complemented by extensive personalized attention that helps tailor students' studies to their needs. Students work closely with faculty members in honors seminars, in classes and on a special honors project.

Students in the honors program:

- Engage in self-directed scholarly inquiry and research;
- Acquire sophisticated knowledge of and skills in their chosen field;
- Prepare for high levels of achievement in advanced study and professional life;
- Learn to explore new ideas and take intellectual risks;
- Develop an enhanced awareness of their discipline's standards and ethics;
- Cultivate habits of independent thought and creativity; and
- Strive for objectivity in scholarly discourse and analysis.

Honors students also are encouraged to take advantage of a unique cultural, academic and social experience by spending a semester at the University's Wroxton College in England. Housed in a 17th-century Jacobean mansion, Wroxton offers a diverse range of studies, a highly qualified, all-British faculty and the enlightenment of studying abroad. While there, students can venture on exciting cultural and recreational excursions to places such as Oxford, Stratford-upon-Avon, London and mainland Europe.

Other Honors Programs

Students interested in a more broadly based honors experience rather than honors in a major can choose the University Honors Program. It has an interdisciplinary focus building on honors courses in the University Core and has a separate application process. (See page 50.)

The living-learning communities for residential freshman students focus on developing students' interest and knowledge in special studies areas.

Double Majors and Minors

The College of Arts and Sciences offers students the opportunity to increase the flexibility and marketability of their undergraduate curriculum by combining their majors with other disciplines to form double majors and minors. In addition to the

traditional single-major program, the College offers opportunities for:

- double majors, see this page
- discipline minors, see this page
- interdisciplinary minors, see page 58 and
- personalized minors, see page 63.

As recent literature on developments in the workplace suggest, students who have a "portfolio of marketable skills" will be more employable in the future. Combining, for example, a major in government and law with a second major in psychology or with minors in computer science or philosophy positions a student well for employment in fields that require analytical or technical skills and knowledge of human motivation and social structure. Combining a major in the School of the Arts with a minor in communication could position a student for a career in arts management.

The College faculty suggests that students, in consultation with their advisers, give careful thought to strategic combinations of courses and disciplines.

Double Majors

Double majors involve meeting the requirements of two different disciplines. This is often possible if most free-elective credits are used for the second major. Courses used to satisfy the College core requirements may in some cases satisfy second major requirements. Completing a double major is accomplished more easily in the humanities and the social and behavioral sciences in which major credits usually number between 30 and 42.

Discipline Minors

Discipline minors exist in most disciplines and in most departments. Discipline minors usually consist of 15 credits in a specific discipline. Becton College offers minors in the following disciplines: animation, anthropology, art history, biology, chemistry, communication, computer science, creative writing, economics, film, French, geography, German, government and law, graphic design, history, Italian, mathematics, music, philosophy, physics, psy-chology, sociology, Spanish and theater arts. The description of each minor is usually provided in the section of the major or a concentration. Consult the Index for specific page numbers.

Maxwell Becton College of Arts and Sciences Florham Campus

French Language Minor

The 15-credit French language minor is comprised of the sequence of language courses indicated below. This ensures that the student who has completed this minor will be reasonably fluent in the language and capable of reading and appreciating written and oral communication in French while also having a fair grasp of French literature and culture.

Students who are assessed as sufficiently advanced in the language so as to opt out of one or more of the required language courses may choose from the array of French (FREN) courses, with work done in the target language. The student who takes all four language courses is left with one additional course needed to complete the minor; this course can also be selected from the available FREN courses that are offered regularly, with work done in the target language. At most, one course may be taken in English.

Cuadita

Required Courses (12 credits)

FREN1001
Beginning French I3
and
FREN1007
French Practicum I*1
FREN1002
Beginning French II
and
FREN1008
French Practicum II*1
FREN2003
French Conversation I3
FREN2004
French Conversation II
Elective Course (3 credits)
Choose one from the following:
FREN2005
FREN2005 French Film3
French Film3
French Film

Practica, although required for language classes, do not count toward the minor.

Geography Minor

The geography minor is designed to offer Becton College students 15 credits of relevant geography classes from 1000-, 2000and 3000-level course offerings.

Credits

Required Course (3 credits)

CEOC1102
GEOG1102
Geography and World Issues 3
Electives* (12 credits)
Choose four from the following:
GEOG1111
Economic Geography3
GEOG2500
Global Development:
Geographies of Wealth
and Poverty3
GEOG2600
Urban Geography3
GEOG3030
Surveillance and Security3
GEOG3040
Capture and Control:
Geographies of Detention
and Incarceration3

German Language Minor

Students must complete 15 credits in German courses. Select courses may be taken at partner institutions to complete the minor. Please contact the department of literature, language, writing and philosophy for details and approval.

Italian Language Minor

The 15-credit Italian language minor is comprised of the sequence of language courses indicated below. This ensures that the student who has completed this minor will be reasonably fluent in the language and capable of reading and appreciating written and oral communication in Italian while also having a fair grasp of Italian literature and culture.

Students who are assessed as sufficiently advanced in the language so as to opt out of one or more of the required language courses may choose from the array of Italian courses, with work done in the target language. The student who takes all four language courses is left with one additional course needed to complete the minor; this course can also be selected from the available Italian courses that are

*Additional courses will be added to this list as more course offerings become available.

offered regularly, with work done in the target language. At most, one course may be taken in English.

Cuadita

Required Courses (12 credits)

Credits
ITAL1001
Beginning Italian I3
and
ITAL1007
Italian Practicum I*1
ITAL1002
Beginning Italian IL3
and
ITAL1008
Italian Practicum II*1
ITAL2003
Italian Conversation I3
ITAL2004
Italian Conversation II3
Elective (3 credits)
Choose one from the following:
ITAL2005
Italian Cinema3
ITAL3053
Creating a Nation3
ITAL3055
The Italian-American Experience3
ITAL3056
Italy: Land of Migrations3

Physics Minor

The 18- to 20-credit physics minor is designed for students who enjoy physics and are interested in gaining a broader exposure to physics concepts, experimental techniques and computational paradigms, while at the same time gaining transferable skills and ways of thinking applicable to jobs within their primary field of interest.

Required Courses (12 credits)

PHYS2003, PHYS2013, PHYS2023	
General Physics with Calculus I	4
PHYS2004, PHYS2014, PHYS2024	
General Physics with Calculus II.	4
PHYS3206, PHYS3216	
Modern Physics (Lecture and	
Laboratory)	4

Electives (6-8 credits) Select from the following: PHYS2800 Sophomore Independent Study......1-6 **PHYS3210**

*Practica, although required for language classes, do not count toward the minor.

Maxwell Becton College of Arts and Sciences Florham Campus

Credits
PHYS3220
Mathematical Methods for
Physics 3
PHYS3240, PHYS3241
Optics (Lecture and Laboratory)4
PHYS3250
Thermodynamics3
PHYS3277
Solid State Physics3
PHYS3530
Electricity and Magnetism I3
PHYS3800
Junior Independent Study 1-6
PHYS4250
Quantum Mechanics I3
PHYS4401
Physics Seminar2
PHYS4430
Selected Studies in Physics 1–3
PHYS4800
Senior Independent Study
in Physics 1–6

Spanish Language Minor

The 15-credit Spanish language minor is comprised of the sequence of language courses indicated below. This ensures that the student who has completed this minor will be reasonably fluent in the language and capable of reading and appreciating written and oral communication in Spanish while also having a fair grasp of Spanish literature and culture.

Students who are assessed as sufficiently advanced in the language so as to opt out of one or more of the required language courses may choose from the array of Spanish courses, with work done in the target language. The student who takes all four language courses is left with one additional course needed to complete the minor; this course can also be selected from the available Spanish courses that are offered regularly, with work done in the target language. At most, one course may be taken in English.

Required Courses (12 credits)

SPAN1001
Beginning Spanish I3
and
SPAN1007
Spanish Practicum I* 1

*Practica, although required for language classes, do not count toward the minor.

SPAN1002	
Beginning Spanish II	3
and	
SPAN1008	
Spanish Practicum II*	1
SPAN2003	
Spanish Conversation I	3
SPAN2004	
Spanish Conversation II	3
Elective (3 credits)	
Choose one from the following:	
SPAN2006	
Music in Spanish: Writing and	_
Conversation	3
SPAN2007	
Hispanic Current Events: Writing	
and Conversation	3
SPAN2008	
Hispanic Film: Writing and	
Conversation	3
SPAN3561	
Topics in Latin-American	
Literature L	3
SPAN3562	
Topics in Latin-American	
Literature II	3

Credits

Interdisciplinary Minors

Interdisciplinary minors incorporate courses and faculty from various disciplines within the college. Becton College currently offers a wide array of interdisciplinary minors listed on this page to page 63, but others are in various stages of proposal and development.

Students are encouraged to work with advisers and to check the University's web pages to keep abreast of new minors that might satisfy their academic interests.

Advertising Interdisciplinary Minor

The advertising minor is designed for students interested in studying the theoretical, practical and creative elements that go into the creation of compelling and successful advertisements and advertising campaigns. The philosophy behind the minor builds on the recognition that the professional domain of advertising draws from many varied disciplines.

First, students must develop a foundational understanding of the concepts and theories included in the areas of advertising and marketing.

*Practica, although required for language classes, do not count toward the minor.

Then they must develop and polish their theoretical understanding and professional skills in the areas of computer graphics, desktop publishing and basic video making — they need to understand all the theoretical and creative elements that go into the creation of both print ads and commercials.

Finally, students should be given the opportunity to develop their skills with courses that will enhance their knowledge regarding account management, campaign planning, implementation and evaluation. For information contact the department of communication studies or the School of the Arts.

Note: In order to fulfill the advertising minor, students must select no more than 12 credits in their major discipline. This policy is meant to ensure that students are taking full advantage of the interdisciplinary nature of the minor.

Required Courses (9 credits)	Credits
CGD1313	
Creative Imagery with Photosho	p3
CGD1314	
Illustrator Graphics and Design.	3
COMM2221	
Advertising Principles	3

Elective Courses (6 credits)

CGD2370 Print Layout CGD3363 Interactive Publishing Communication COMM3243

Advanced Advertising and Promotions

Communication Internship I COMM4001 Film and Animation

Motion Graphics with ANIM1750 After Effects®

Filmmaking I: Basic FILM1005 Production

Marketing

MKTG2120 Principles of Marketing MKTG4272 Consumer Behavior MKTG4365 Marketing

Communications

NOTE: The identification and inclusion of additional suitable elective courses will continue on an ongoing basis.

African-American Studies Interdisciplinary Minor

The minor in African-American studies exposes students to a program of study concerning African-American culture, life and history in the United States. By expos-

Maxwell Becton College of Arts and Sciences Florham Campus

ing students to an interdisciplinary study of African Americans (encompassing history, government and law, sociology, literature, music and anthropology), the minor is intended to educate students on how African Americans helped shape American history and culture and continue to transform it today. The minor also emphasizes the relevance of Africa in understanding the attitudes, circumstances and experiences of African Americans. The core course, AFAM2001 Introduction to African-American Studies, will ground students in the fundamentals of interdisciplinary study. In the electives, the students will learn that the African-American experience is not only an integral part of the United States experience but also integral to understanding the world at large. For information contact the department of literature, language, writing and philosophy.

Required Course (3 credits)

AFAM2001 Introduction to African-American Studies

Select Elective Courses (12 credits)

Choose four of the 3-credit courses below to include at least one each from history, literature and sociology.

interature and s	sociology.
African-Americ	ran Studies
AFAM3357	Sociology of the African- American Family
AFAM3358	Sociology of the Black Church
AFAM3359	Sociology of Race, Rap and Religion
History	
HIST2350	Colonial and Revolutionary America
HIST2351	The United States in the Early Republic
HIST2352	Civil War and Reconstruction
Literature	
LITS3013	African-American Literature
LITS3202	American Writers: Race in Black and White
Music History	
MUSIH1021	Popular Music and Jazz
Related Elective	e Courses (3 credits)
Choose any on below:	e of the 3-credit courses

African Peoples and

Women and Minorities

Cultures

in Media

Introduction to African History

ANTH2335

COMM2866

HIST2202

HIST2402	Atlantic Worlds
HIST4205	Seminar: Race and Empire
LITS3071	Contemporary African
	Literature and Culture

British Studies Interdisciplinary Minor

The 15-credit British studies minor is designed to offer Becton College students who study for the fall/spring semester at Wroxton College the opportunity to earn a minor that recognizes Wroxton.

Wroxton College Courses

Choose any 12 to 15 credits taken during a fall or spring semester to qualify for the minor, but *excluding* UNIV2001 Cross-cultural Perspectives.

Becton College/Wroxton College Courses

Choose either 3 or 6 of the following credits, a program offered jointly every odd year with course sessions at Becton College followed by two weeks at Wroxton with site tours in England and France. One can also use an authorized substitute course from another Wroxton summer program.

HIST2424	Western Front in World
	War I
HIST2425	Western Front in World
	War II

Becton College Courses

Choose any three of the following credits beyond the 12 to 15 relevant credits taken at Wroxton. One can also use an authorized substitute course.

HIST3350	U.S. as a Continental
	Power, 1607–1898
LITS3020	18th-century British
	Literature
LITS3021	Victorian Age
LITS3054	Romanticism
LITS3073	Irish Literature
LITS3201	British Writers
LITS3212	Chaucer
LITS3213	Shakespeare I
LITS3214	Shakespeare II
LITS3230	Jane Austen: Fiction and
	Film
LITS3301	The English Language

Note: Students who previously declared an 18-credit minor in this area must complete a "Declaration of Minor" form (available in the Records Office) in order to convert to the revised, 15-credit minor. Students who convert to the revised minor MUST complete all requirements affiliated with the 15-credit minor.

Children's Studies Interdisciplinary Minor

The children's studies minor provides students with a multidisciplinary understanding of the idea of childhood in human society. Using the disciplinary perspectives of literature, psychology, sociology and anthropology, the minor grounds students in an understanding of childhood as preparation for employment in child services and advocacy or advanced study in the fields of education, literature, psychology, sociology and anthropology. Offered jointly by the department of literature, language, writing and philosophy; the department of communication studies; and the department of social sciences and history, the minor requires 15 credits. Students select five 3-credit courses from the list below. making selections from at least three different disciplines.

Anthropology

Communication

ANTH3102	Anthropology of Children
	and Childhood

Communication		
COMM3014	Family Communication	
Literature		
LITS3303	World Folk Literature	
LITS3311	Children's Literature	
LITS3312	Young Adult Literature	
Psychology		
PSYC3001	Human Development	
	(Child)	
PSYC3302	Human Development	
	(Adolescent)	
Sociology		
SOCI2316	Sociology of the Family	
SOCI2317	Children and Society	
SOCI3310	Juvenile Delinquency	
SOCI3344	Schools and Society	

Dramatic Literature and Performance Interdisciplinary Minor

The dramatic literature and performance minor provides grounding in theatrical history, theory and performance practices as a cultural enrichment and as preparation for advanced study or employment in the theater. This minor is offered jointly by the department of literature, language, writing and philosophy and the School of the Arts and consists of 18 credits.

3 credits of Shakespeare	Credits
LITS3213	
Shakespeare I	
or	
LITS3214	

Shakespeare II......3

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3 credits of De	velopment Theater Credits	Required Courses (12 credits)
THEAH1201	Creuits	Credits
Development of the Theater:		ECON2001
Ancient to Elizabethan		Introduction to Microeconomics 3
1 111010110	or	ECON2102
THEAH1202	01	Introduction to Macroeconomics3
Developme	nt of the Theater:	ECON2250
	ion to Today3	Economic Methods
	owing 3-credit literature	Game Theory
courses	owing 3-crean meranare	3
LITS3101	Greek and Roman Drama	or ECON4845
LITS3102	Studies in Drama	Agents in the Matrix: Creating
LITS3103	Modern Drama:	and Analyzing Agent-based
21123103	1880–1930	Models
LITS3104	Contemporary American	Wiodels
	Drama	Elective (3 credits)
LITS3105	Contemporary European	One course to be selected from the 2000- or
	Drama	higher-level offerings in economics (ECON)
LITS3106	Contemporary World	or finance (FIN).
	Drama	of finance (Fin).
LITS3213	Shakespeare I	Entertainment and Business
	or	Management Interdisciplinary Minor
LITS3214	Shakespeare II	
	(In addition to the 3	The entertainment and business manage-
	credits selected from	ment interdisciplinary minor allows stu-
	Shakespeare required	dents to focus on the unique requirement
	above)	of developing a product for the entertain-
6 credits from	the following 3-credit	ment and/or communication industries.
dance and the		Aspects of production management and communication are addressed, and the
DAN1320	Beginning Dance I	student will learn about the business role
THEA1203	Basic Acting I	of the producer, from acquiring a product,
THEA2005	Directing I	through production and distribution.
THEA2339	Musical Theater Workshop	Skills involved and developed include
THEA3336	Acting for Film and	leadership, communication, marketing
	Television	and accounting.
THEAH1201	Development of the	and accounting.
	Theater: Ancient to	Required Courses (9 credits)
	Elizabethan	ENTR2700
	or	Introduction to Entrepreneurship
THEAH1202	Development of the	and Innovation3
	Theater: Restoration	FILM3426
	to Today	Producing Movies
	(In addition to the 3	MKTG2120
	credits selected from	Principles of Marketing3
	Development of	Timospies of Marketing
	Theater required above)	Electives (6 credits)
THEAH2255	Playwriting and Dramatic	Select from the following:
IIIEAI12233	Structure	BUSI1000
	Structure	Foundations of Business
Economics In	terdisciplinary Minor	COMM2099
The economic	s interdisciplinary minor	Professional Communications3
	dents to the basic concepts,	FILM3427
	eling approaches and meth-	Distributing Movies and Media 3
ods of econom	nics. The 15-credit minor	MKTG3360
	required field courses, a	Digital Marketing*3
required meth	odology course and a mod-	5 5
	at can be satisfied by taking	
one of tree one	ireas and an alactive from	

Forensics Interdisciplinary Minor

The forensics interdisciplinary minor is a 16-credit minor designed for students who are interested in how physical and psychological evidence resolve issues involving criminal behavior, crime scenes and criminal investigations. This highly popular field spans many disciplines, drawing from psychology, sociology, government and law, chemistry, biology, literature and philosophy

Students are required to take PSYC3360 Forensic Psychology and an introductory science course with a forensics component (4 credits). Students can then select the remaining 9 credits from a broad array of elective courses in multiple disciplines.

In order to fulfill the minor, students are required to take no more than 3 credits of their elective courses in any single discipline.

Required Courses (7 credits)

BIOL1205	Anatomy and Physiology I
BIOL1206	Anatomy and Physiology II
BIOL2003	Cell Biology
BIOL3009	Microbiology
BIOL3256	Genetics
BIOL3332	Immunology
Chemistry	
CHEM1201	General Chemistry I
CHEM2221	Analytical Chemistry
CHEM3281	Biochemistry I
Criminology	
CMLGY1306	Introduction to Crime
	and Criminology
CMLGY2300	Wrongful Convictions
CMLGY2307	Deviance and Social

Control

one of two courses and an elective from

economics or finance.

^{*}Prerequisite is MKTG2120 Principles of Marketing.

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CMLGY2333	Criminal Law
CMLGY2360	Victimology
CMLGY2701	Penology
CMLGY3301	Women and Crime
CMLGY3308	Law and Society
CMLGY3309	Policy Analysis
CMLGY3310	Juvenile Delinquency
Philosophy	
PHIL1101	Introduction to Logic
Psychology	-
PSYC3005	Abnormal Psychology
PSYC3032	Physiological Psychology
PSYC3302	Human Development
	(Adolescent)
PSYC3310	Social Psychology
PSYC3334	Psychopharmacology
PSYC4291	History and Systems of

Note: Students who previously declared an 18-credit minor in this area must complete a Declaration of Minor form (available in the Records Office) in order to convert to the revised, 16-credit minor. Students who convert to the revised minor MUST complete all requirements affiliated with the 16-credit minor. No course substitutions will be permitted.

Psychology

Gender Studies Interdisciplinary Minor

Gender studies is an interdisciplinary program that places gender at the center of its analysis, research and scholarship. Gender studies draws from a wide range of disciplines, including literature, government and law, anthropology, sociology, criminology and psychology, to investigate how gender operates at every level of society from the individual to the structural, from daily interactions to global processes. Although many aspects of gender studies have been inspired by feminism, a broad variety of theoretical approaches are used to study gender, including women's studies, men's studies and gay and lesbian studies. For information, contact the department of psychology and counseling, the department of social sciences and history or the department of communication studies.

The gender studies minor consists of 15 credits of gender studies-designated courses, such that at least three different disciplines are represented. At least nine credits in the minor must be at the 3000-or 4000-level.

The following is a sample of gender studies-designated courses:

ARTH3423 Women Artists
BIOL1010 Human Sexuality

CMLGY3301	Women and Crime
COMM2866	Women and Minorities in
	Media
COMM3014	Family Communication
COMM3051	Communication and
	Gender
GOVT2070	Women and American
	Politics
GOVT2071	Gender and Public Policy
LITS3221	Medieval and Renaissance
	Women Writers
SOCI3314	Sociology of Gender
SPAN4005	Latin-American Women
	Writers

Globalization and Society Interdisciplinary Minor

The globalization and society minor provides students with an understanding of the complex phenomenon of globalization. By using the disciplinary perspectives of anthropology, communication, economics, literature and sociology, the minor provides students with two things. One, it expands their disciplinary and interdisciplinary knowledge. Second, it makes them better prepared for employment opportunities in an interconnected world. Offered jointly by the department of literature, language, writing and philosophy; the department of communication studies; and the department of social sciences and history, the minor requires 18 credits. Since most theorization of globalization is rooted within the sociological perspective, students are required to take SOCI2248 Globalization, Culture and Identity and five other courses from the following list, making selections from at least two different disciplines. Anthropolog

Anthropology	
ANTH2335	African Peoples and
	Cultures
ANTH2338	Israeli Society and
	Culture
ANTH3102	Anthropology of Children
	and Childhood
Communication	on
COMM3019	Global Communication
Economics	
ECON3310	Current Economic
	Problems
History	
HIST1150	World History I
HIST1151	World History II
HIST3322	The Roman Empire
HIST3347	History of Modern China
Literature	•

Contemporary World

Literature

LITS3061

LITS3302	Myth and Sacred Texts
LITS3303	World Folk Literature
LITS3311	Children's Literature
LITS3313	Nobel Literature
LITS3351	Literary Perspectives on
	the Environment
Philosophy	
PHIL2205	Social and Political
	Philosophy

Government and Law Interdisciplinary Minor

The 15-credit government and law interdisciplinary minor is for students not majoring in government and law. Students who want to earn a minor in government and law must take five courses in government and law (GOVT).

Italian Studies Interdisciplinary Minor

The Italian studies minor is designed to offer Becton College students who study for the fall/spring semester or summer session at Bergamo University in Italy the opportunity to earn a minor that recognizes Bergamo's unique Italian-centered curriculum. Students take select courses at Becton College and Bergamo in order to fulfill the required 15 credit hours for the minor.

Choose up to 15 credits, but it must include 9 credits in language and literature as well as 6 credits in history and social sciences.

Students must take Italian language through the intermediate level but may earn credit for advanced-language courses at Bergamo University or Becton College.

Required Courses (3-6 credits)

nequirea Courses (3–6 creaits)
Credits
ITAL1002
Beginning Italian II3
ITAL2003
Italian Conversation I
or
ITAL2004
Italian Conversation II3
Language and Literature Electives (3–6 credits) ITAL2005
Italian Cinema
ITAL3390
Italian Mafia in Literature and Film 3
ITAL4800
Independent Study in Italian1–6

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History and Social Science Electives (6 credits)

ts
3

The Roman Empire......3

Bergamo Courses

Students will receive credit for relevant courses approved by the department in Italian-centered curriculum.

Japanese Studies Interdisciplinary Minor

Students must complete 15 credits combining language courses, up to the intermediate level, and courses related to the nation(s) where the language is spoken. Select courses may be taken at partner institutions to complete the minor. Please contact the department of literature, language, writing and philosophy for details and approval.

Latin-American Studies Interdisciplinary Minor

The Latin-American studies minor is a 15-credit cultural studies program designed to offer Becton College students an inter-disciplinary minor that incorporates Latin American-centered curriculum to include Spanish language as well as literature and history. Students can also earn credit through courses linked to short-term study abroad in Latin America regularly offered at Becton College, while they can also earn credit from a full-semester, study-abroad program in Latin America.

Requirements

From the 15 credits available:

- Students need a minimum of 6 credits in language and literature and 6 credits in history.
- The students can take the remaining 3 credits in either language and literature or history

Language and Literature Courses Required Language and Literature Courses Pick 1or 2 courses: Credits SPAN1002 Beginning Spanish II......3 **SPAN2003** SPAN2004 **SPAN2009** Spanish for Professions......3 SPAN3411 Latin-American Culture and Civilization (Spanish)......3 Elective Language and Literature Courses Pick 0 to 2 courses: SPAN2006 Music in Spanish: Writing and Conversation.....3 **SPAN2007** Hispanic Current Events: Writing and Conversation......3 **SPAN2008** Hispanic Film: Writing and Conversation......3 SPAN2507 Latin-American Culture and Civilization (English)......3 SPAN2530 Latin-American Film......3 SPAN3310 Latin-American Women Writers......3 SPAN3431 Latin-American Short Stories......3 SPAN3441 Latin-American Theater......3 SPAN3463 The Hispanic Essay......3 SPAN4440 The Hispanic Novel: From Cervantes to García Márquez......3 SPAN4477 Honors Research and Thesis...... 3

History Courses

SPAN4498

Internship......3

Senior Independent Study - Spanish.... 3

*SPAN2003 Spanish Conversation I and SPAN2004 Spanish Conversation II may be taken in any order. Credits

Creams
HIST2503
Indigenous Peoples of Latin America 3
HIST2504
Gender and Race in Latin America 3
HIST2506
Pre-Columbian Americans3
HIST3251
Crime and Punishment in
Latin America3

Or in Conjunction with

Study Abroad (Short term of 3–6 credits or full-semester study abroad of up to 15 creddits is highly recommended. Students will receive credit for relevant courses approved by the department of social sciences and history for Latin-American and/or Spanish-centered curriculum.

Prelaw Interdisciplinary Minor

The 15-credit prelaw minor provides students with the substantive background and specific skills for success in law school as well as basic exposure to legal systems and concepts. The prelaw minor targets these areas for development.

- 1. Clear, concise, organized writing;
- 2. Logic and reasoning skills;
- 3. Oral argument and advocacy;
- 4. Effective argument construction and assessment; and
- 5. Exposure to legal thinking and terminology.

Required Course (3 credits)

GOVT1200

Introduction to Law*

O1

GOVT3240

CMLGY1306

Law and Society.....3

Electives (12 credits)

*This course should be taken before the other classes in the prelaw minor sequence.

and Practice...... 3

Teacher Certification

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Credits
CMLGY2503
Crime and Media 3
CMLGY2701
Penology3
GOVT1200
Introduction to Law3
GOVT2030
The Supreme Court3
GOVT2071
Gender and Public Policy3
GOVT2230
Judicial Process3
GOVT3210
Civil Liberties and Civil Rights*3
GOVT3220
Criminal Law 3
GOVT3230
International Criminal Law 3
GOVT3240
Law and Society3
GOVT4220
Advanced Criminal Law 3
HIST3250
Crime and Punishment in
South Africa3
HIST3251
Crime and Punishment in
Latin America3
PHIL2432
Philosophy of Law

Screenwriting/Dramatic Writing Interdisciplinary Minor

The screenwriting/dramatic writing minor is designed for students interested in studying the art and craft of writing for thescreen and/or stage. The rationale for the proposed required courses for this minor is that knowledge of all forms of creative and dramatic writing contribute to each other and is necessary for a student to become a well-rounded writer no matter what the format. The most talented, acclaimed and successful screenwriters and playwrights often cross genres. For information contact the School of the Arts.

Required Courses (9 credits)	Credits
CREW2255	
Playwriting and Dramatic Struc	cture3
FILM2250	
Screenwriting I	3
FILM2251	
Screenwriting II	3

^{*}This course will include a significant legal writing empuasis.

Electives (6 credits)

Select two of the following courses:

Personalized Minor

In consultation with a faculty mentor, a student may design a personalized minor to meet specific needs or interests. The student must then submit to the Becton College Dean's Office a written rationale for the minor, a title for the minor and a list of the needed courses, demonstrating that they will be offered in time for graduation. The minor is then subject to the approval of the faculty mentor and the associate dean of academic affairs. A Declaration of Minors form must then be completed with the signature of the mentor and a copy given to the Office of Enrollment Services. The faculty mentor must then oversee the minor. Upon graduation, enrollment services will contact the mentor to ensure that the minor will appear on a student's transcript. The minor should be declared no later than the first semester of the student's junior year, it must consist of a minimum of 18 credits and it must rely primarily on courses already offered in the College. A student may take up to one Independent Study in order to complete the minor.

Teacher Certification Requirements

At times, the New Jersey State Department of Education regulations change. Students are advised to check the New Jersey State Department of Education website http://www.state.nj.us/education/ for current requirements.

In New Jersey, the State Department of Education grants approval for teacher certification based upon the following:

• a bachelor's degree from an accredited institution which includes 60 credits in liberal arts and science courses for elementary education, including at least 3 credits in physiology, biology or health;

- for middle-school candidates, a course in adolescent development and 15 or more credits in the content area for their certification (e.g., mathematics, English, etc.);
- for secondary candidates, a major in the subject area to be taught or 30 credits of a coherent sequence of courses in the subject area (e.g., mathematics, biology, etc.) where half of the courses are at an upper level (3000 and above):
- completion of appropriate education courses, field experiences and student teaching;
- full matriculation into the QUEST program as described above;
- a minimum cumulative grade point ratio (CGPR) of 3.00; and
- a passing score on the state-required Praxis II Test appropriate for the area of certification.

Students must major in liberal arts or a science. In New Jersey, a student cannot major in education. Individuals preparing for subject-area certification to teach at the secondary level (e.g., science, foreign languages, etc.) must major in the field they are planning to teach. Students interested in early childhood or elementary education may major in select liberal arts/science fields of interest or major in the humanities with a prescribed concentration of courses in a specific content area. Professional or "technical" majors (e.g., marketing, journalism, accounting, etc.) do not satisfy the state requirement for a B.A. or B.S. in a liberal arts/science specialization. Those individuals must present a transcript including 60 credits in the liberal arts or pure sciences in order to qualify for elementary certification.

Students seeking certification must complete the required courses of their liberal arts/science major, courses in "general education" and specific courses in the behavioral sciences (sociology, anthropology or psychology) that are related to teaching and learning. Together these areas must total a minimum of 60 course credits. The total of 60 "general education" credits must be distributed among the following areas: mathematics, science, American and English literature, American history and American studies, non-Western studies, Western history, art history or music, philosophy, technology, foreign language and psychology.

Students majoring in psychology are required to take 15 or more credits in a content area (English, history, mathematics or science).

Course Numbering System • Allied Health Sciences

Maxwell Becton College of Arts and Sciences Florham Campus

Those individuals desiring to teach on the middle-school level (5*, 6*, 7, 8) must qualify for elementary school certification with subject-matter specialization endorsement. In order to do so, the following requirements must be met, according to N.J.A.C. 6A:9–8.1:

- 1. Hold a Certificate of Eligibility (CE), Certificate of Eligibility with Advanced Standing (CEAS) or standard certificate;
- 2. Complete study in the characteristics of children and young adolescents (adolescent psychology or developmental psychology):
- 3. Pass the appropriate state test in content-area specialization for middle school;
- 4. Complete a prescribed coherent sequence of courses in, but not limited to, one of the following specializations: 15 credits in a single CCCS subject field (mathematics, English, history, etc.);

Prospective teachers in the QUEST (B.A. or B.S./M.A.T.) program follow the *tradi*tional route to teacher certification, which requires the candidate: to hold a bachelor's degree from an accredited college or university; to have completed at least 30 credit hours in courses appropriate to the instructional field of certification; and to pass the state-required Praxis II Test. In the traditional route, the professional development requirement is met by completing an approved teacher-education program (which includes course work in education and three levels of practical [field-based] experience initial exposure in the classroom followed by a more intensive field experience and culminating with a supervised student teaching experience). All candidates starting clinical practice (student teaching) in academic year 2018-2019 or thereafter must complete at least 50 hours of clinical experience (field experience) in a preschool, elementary, middle and/or secondary school setting prior to clinical practice. Clinical practice will occur over a twosemester period within a single school with at least 175 hours prior to the final, fulltime semester of student teaching. If students have met all of the requirements and have completed an approved studentteaching experience, they may be recommended for a "Certificate of Eligibility with Advanced Standing," which qualifies them to be hired as first-year teachers with a provisional certificate to satisfy the state's

"Induction Year" requirement for standard certification. The hiring school district is required: 1) to provide the new teacher with a mentor and special on-the-job support and 2) to evaluate the new teacher's performance and make a recommendation on the issuance (or nonissuance) of a standard certificate at the end of the year.

Regarding teacher certification in other states, New Jersey has "reciprocity" with a number of other states and the District of Columbia. Persons seeking employment in another state should write to that state's office of teacher certification for information.

Course Numbering System

0000 — Developmental Level: remedial or developmental courses intended to prepare students for entry into curriculum or to remove a deficiency, no degree credit.

1000 — Freshman Level: a lowerdivision course having no formal prerequisites beyond admission into the curricula or intended for freshmen or lower-division students.

2000 — Sophomore Level: a lower-division course having a 1000-level prerequisite or intended for sophomores.

3000 — Junior Level: an upper-division course having a 2000-level prerequisite or intended for juniors or upper-division students.

4000 — Senior Level: an upper-division course or thesis having a 3000-level prerequisite or intended for seniors.

5000–9000 — Graduate Level: a graduate course.

Allied Health Sciences Majors

Department of Biological and Allied Health Sciences

Detailed information on specific majors is included in the alphabetical listing of majors.

Allied Health Technologies (B.S.A.H.T.)

See page 65.

Concentration: radiologic technology

Clinical Laboratory Sciences (B.S.C.L.S.)

See page 71.

Concentration: medical laboratory science (medical technology)

Medical Imaging Sciences (B.S.M.I.S.)

See page 95.

Concentrations: diagnostic medical sonography, vascular technology

Allied Health Sciences Programs

The programs in the allied health sciences at the Florham Campus are designed to provide the broad, intensive, academic and clinical experiences that undergraduate students need to assume their chosen professions. The core curriculum is designed to meet the professional essentials for state licensing and/or National Registry Examination. The allied health programs may be subject to change to ensure that they are continuously in accordance with professional essentials. Information is available in the Allied Health Office about academic and clinical courses approved after publication of this bulletin.

The programs in allied health articulate with the B.S. degree in biology as well as many other disciplines, permitting flexibility in preparation for an advanced professional degree.

The curriculum provides a special environment in which students can integrate their academic and professional applied learning with the clinical practicum. It emphasizes the need for sound preparation in the natural and physical sciences, familiarity with the disciplines represented by courses in the liberal arts and use of the

^{*}This requirement does not apply to those who teach in a self-contained classroom.

Allied Health Technologies

Maxwell Becton College of Arts and Sciences Florham Campus

latest technological innovations in patient care. The medical directors and clinical and academic faculties supervise this integration using excellent physical facilities and human resources of the primary teaching hospitals. Selected secondary teaching centers in health care hospitals and community services are utilized for required practicum experiential training and also are affiliated by contractual agreement.

All allied health majors must complete 96 credits at FDU in their concentration in addition to the clinical courses required by the affiliate institution.

Should a student desire to attend a clinical institution with which FDU does not have a current affiliation, the director of allied health will try to arrange for the student to attend that institution, provided that the institution is nationally accredited in the student's particular concentration. Reasonable time constraints must be considered to enable both schools to facilitate such an arrangement.

Students attending Rutgers School of Health Professions (Rutgers SHP) will be awarded a joint (FDU/Rutgers SHP) bachelor of science degree after successfully completing their concentration at that institution. Students attending other institutions will be awarded a bachelor of science degree from FDU in their appropriate concentration.

Undergraduate Admission

Students considering a degree in allied health should have a strong interest and proficiency in science and mathematics. The selection of an allied health career requires a great deal of introspection on the part of the student. A strong sensitivity to patient care, willingness to work with the sick and injured, as well as academic ability are necessary. Candidates must be in good health.

Transfer Students

Transfer students or students who are certified or registry approved may receive transfer credits toward their B.S. degrees. Transfer students must make up areas of deficiency. The admissions department will evaluate transcripts and determine which credits may be accepted toward the allied health program. Permission to enter the allied health program resides with the allied health adviser.

Students with earned associate degrees from accredited institutions may apply for programs leading to a baccalaureate degree in the sciences, humanities, education or business administration. The credits earned in the associate degree program will be evaluated according to University policy, as stated in an earlier section of this bulletin.

Faculty

The academic and clinical faculties, together, have developed innovative and relevant courses critical to the basic principles in all the health fields. The courses are designed to introduce students to professional choices during the initial stages of their formal study. Programs are designed to meet national professional essentials. In order for the program to reflect the needs of consumer education and health care services, consultants in each professional field, together with consumer representatives, provide discussion and feedback on the philosophy and curriculum of the program.

Advising

Allied health majors are assigned to the allied health adviser for advisement. Indepth academic and professional counseling is provided throughout the college experience.

Career Opportunities

The health care delivery system needs humane, competent health professionals to provide primary and preventive health care, as well as to assume professional positions in industry and research.

Students interested in upward mobility must think in terms of a baccalaureate degree and/or a double major. The objectives to be considered are sufficient academic and clinical training that would permit students to sit for registry, licensure and/or certification examinations monitored by the national professional societies.

The health delivery system represented by hospitals, clinics, institutions, agencies and medical-group practices requires the services of health professionals for extended care. Advanced specialization, teaching credentials, positions in research, industrial sales or marketing provide opportunities for advancement and geographical mobility.

Allied Health Technologies Major (B.S.A.H.T.)

Department of Biological and Allied Health Sciences

Completion of this program will result in a Bachelor of Science in Allied Health Technologies with a concentration in radiologic technology awarded jointly by Fairleigh Dickinson University and the partner institution. Students will complete 96 credits during their first three years at FDU. They then must apply for acceptance to the professional component at the partner institution for their senior year. Professional courses are taken at the partner institution. A joint degree is awarded upon completion of the professional component.

Admission to the clinical courses at the partner institution requires a separate application, usually in the junior year. Consult the program adviser for application details and time lines. Admissions decisions for the clinical program are made in accordance with criteria, policies and procedures established by a joint Committee on Admissions and Academic Status for the degree program and cannot be guaranteed by FDU.

For more information regarding these degrees, contact the allied health adviser, Florham Campus.

Radiologic Technology Concentration

Radiologic technologists perform a variety of diagnostic and therapeutic services within the health care industry and may find employment in hospitals, clinics and imaging centers. The program prepares students to perform traditional X-rays, bone densinometry and inject contrast media. Additional training is required for more advanced imaging technologies such as magnetic resonance imaging (MRI) or computed tomography (CT) scans. Specific requirements of the radiologic technology concentration are listed as follows.

Biochemistry

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Requirements for the Bachelor of Science in Allied Health Technologies Degree

Credits

Credits
Biology Requirements
BIOL1110
Medical and Pathological
Terminology2
BIOL1201, BIOL1203
Biological Diversity (Lecture and
Laboratory)4
BIOL1202, BIOL1204
Introduction to Molecules, Cells
and Genes (Lecture and
Laboratory)4
BIOL1205, BIOL1207
Anatomy and Physiology I (Lecture
and Laboratory)4
BIOL1206, BIOL1208
Anatomy and Physiology II (Lecture
and Laboratory)4
BIOL2003, BIOL2004
Cell Biology (Lecture and
Laboratory)4
Biology Elective (Lecture and
Laboratory)4
Chamistry Requirements

Chemistry Requirements

Physics Requirements

Other Requirement

After completion of three years of study (a minimum of 96 credits) at FDU, the program is completed in any JR-CERT Radiologic Technology training program (generally two years). With the successful completion of the clinical training program at the partner institution, the student will earn the Bachelor of Science in Allied Health Technologies.

Biochemistry Major (B.S.)

Department of Chemistry and Biochemistry

The bachelor of science with a major in biochemistry program is designed for students focused on preprofessional study. preparing them for admission to a school of pharmacy, medicine, veterinary medicine or dentistry with a series of core courses in chemistry and biology. The curriculum offers lecture and laboratory course work in topics that will effectively prepare students for future plans in these areas and will also provide students with extensive preparation for graduate school in chemistry, biochemistry and molecular biology or career plans within the areas of chemistry, biochemistry or related areas of biotechnology. Note: The B.S. in biochemistry is American Chemical Society (ACS)certified.

Required Courses

Credits
BIOL1201
Biological Diversity4
BIOL1202
Introduction to Molecules, Cells
and Genes4
BIOL2003, BIOL2004
Cell Biology (Lecture and Laboratory)4
CHEM1201, CHEM1202
General Chemistry I, II6
CHEM1203, CHEM1204
General Chemistry Laboratory I, II2
CHEM2211, CHEM2213
Inorganic Chemistry (Lecture and
Laboratory)4
CHEM2221, CHEM2223
Analytical Chemistry (Lecture and
Laboratory)4
CHEM2261, CHEM2262
Organic Chemistry I, II6
CHEM2263, CHEM2264
Organic Chemistry Laboratory I, II2
CHEM3241
Physical Chemistry I3
CHEM3242
Physical Chemistry II
CHEM3243
Physical Chemistry Laboratory I2
CHEM3244
Physical Chemistry Laboratory II2
CHEM3281, CHEM3282
Biochemistry I, II6
CHEM3389
Biochemistry Laboratory1

	Credits
CHEM4233	
Instrumental	Analysis3
CHEM4234	
Instrumental	Analysis Laboratory2
CHEM4501	
Capstone Res	search Assessment1
ENGW1001	
Composition	I: Rhetoric and Inquiry3
ENGW1002	
Composition	II: Research and
Argument	3
MATH1133	
Applied Statis	stics3
MATH1203, MA	TH2202
Calculus I, II.	8
PHYS2003, PHY	7S2013
PHYS2004, PHY	7S2014
General Phys	ics with Calculus I, II8
Electives (1–6	credits)
Students may sel	ect from the following list of
courses.	
BIOI 3000 BIO	(3010

BIOL3009, BIOL3019 Microbiology (Lecture and Laboratory)......4 BIOL3221. BIOL3231 Microbiology — Medical Focus (Lecture and Laboratory)......4 BIOL3256, BIOL3257 Genetics (Lecture and Laboratory)...... 4 BIOL3332, BIOL3333 Immunology (Lecture and Laboratory)......4 BIOL3360, BIOL3361 Introduction to Molecular Biology (Lecture and Laboratory).....4 BIOL3408, BIOL3409 Forensic Science (Lecture and Laboratory).....4 BIOL4444 Selected Studies in Cell and Molecular Biology.....4 BIOL4470, BIOL4471 Introduction to Neuroscience (Lecture and Laboratory)......4 CHEM4215 Advanced Inorganic Chemistry......3 CHEM4263 Introduction to Medicinal Chemistry.....3 CHEM4351 Chemical Kinetics......3 **CHEM4373**

Selected Topics in Chemistry.....1-3

Research in Chemistry.....0-3

CHEM4430

CHEM4436, CHEM4437 Sophomore Mentored

Biochemistry

Maxwell Becton College of Arts and Sciences Florham Campus

Credits	Credits
CHEM4438, CHEM4439	CHEM4263
Junior Mentored Research	Introduction to Medicinal Chemistry3
in Chemistry0–3	CHEM4285
CHEM4440, CHEM4441	Pharmacology3
Senior Mentored Research	CHEM4401
in Chemistry0–3	Chemistry Seminar1
Another course with approval from the	COMM2099
department chair.	Professional Communications3
•	ECON2001
Prepharmacy Concentration	Introduction to Microeconomics3
Fairleigh Dickinson University offers the	ENGW1001
prerequisite courses for admission to most	Composition I: Rhetoric and Inquiry3
pharmacy schools. FDU students who	ENGW1002
complete the prepharmacy program must	Composition II: Research and
apply for admission to and meet the en-	Argument3
trance requirements of the pharmacy	MATH1133
school of their choice.	Applied Statistics3
In addition to other General Education	MATH1203, MATH2202
requirements, students must complete 95	Calculus I, II8
credits as follows:	PHYS2003, PHYS2013
BIOL1201, BIOL1203	General Physics with Calculus I4
Biological Diversity (Lecture and	PHYS2004, PHYS2014
Laboratory)4	General Physics with Calculus II4
BIOL1202, BIOL1204	
Introduction to Molecules, Cells and	Electives (3–4 credits)
Genes (Lecture and Laboratory)4	Students may select from the following list of
BIOL1205, BIOL1207	courses.
Anatomy and Physiology I	BIOL3009, BIOL3019
(Lecture and Laboratory)4	Microbiology (Lecture and
BIOL1206, BIOL1208	Laboratory)4
Anatomy and Physiology II	BIOL3221, BIOL3231
(Lecture and Laboratory)4	Microbiology — Medical Focus
CHEM1201, CHEM1202	(Lecture and Laboratory)4
General Chemistry I, II6	BIOL3256, BIOL3257
CHEM1203, CHEM1204	Genetics (Lecture and Laboratory) 4
General Chemistry Laboratory I, II2	BIOL3332, BIOL3333
CHEM2211, CHEM2213	Immunology (Lecture and
Inorganic Chemistry4	Laboratory)4
CHEM2221, CHEM2223	BIOL3360, BIOL3361
Analytical Chemistry4	Introduction to Molecular Biology
CHEM2261, CHEM2262	(Lecture and Laboratory)4
Organic Chemistry I, II6	BIOL3408, BIOL3409
CHEM2263, CHEM2264	Forensic Science (Lecture and
Organic Chemistry Laboratory I, II2	Laboratory)4
CHEM3242, CHEM3244	BIOL4444
Physical Chemistry II (Lecture	Selected Studies in Cell and
and Laboratory)5	Molecular Biology4
CHEM3281	BIOL4470, BIOL4471
Biochemistry I3	Introduction to Neuroscience
CHEM3389	(Lecture and Laboratory)4
Biochemistry Laboratory1	CHEM3241, CHEM3245
CHEM4233	Physical Chemistry I (Lecture
Instrumental Analysis3	and Recitation)3
CHEM4234	CHEM3243
Instrumental Analysis Laboratory2	Physical Chemistry Laboratory I2
CHEM4253	CHEM3282
Pharmacokinetics3	Biochemistry II3

Credits
CHEM4215
Advanced Inorganic Chemistry3
CHEM4235
Pharmaceutical Analysis 3
CHEM4373
Polymer Chemistry 3
CHEM4430
Selected Topics in Chemistry1-3

The curriculum outlined above satisfies most of the first two years' requirements for majors in chemistry and biology and also provides a convenient entry to other degree programs in the University. This means that prepharmacy students will have built-in lateral mobility if their interests change. It also provides premedical students with entry to an alternative health care profession.

B.S. in Biochemistry/Pharm.D. Seven-year Program

Students admitted into this program will spend six semesters on undergraduate biochemistry requirements and eight semesters in the FDU School of Pharmacy and Health Sciences. High school applicants wishing to enter this program must have an SAT score of 1,150 or higher (on the 1,600 scale) and a 3.50 grade point average. To remain in the program, students must maintain a 3.30 grade point ratio in the first six semesters and must also have a grade of B- or better in all prerequisite college courses. See Combined Degree Program section of this publication, page 244.

Biology

Maxwell Becton College of Arts and Sciences Florham Campus

Biology Major (B.S.)

Department of Biological and Allied Health Sciences

This curriculum is designed for students who plan to attend graduate school and for preprofessional students who wish to prepare for admission to a school of chiropractic, dentistry, medicine, osteopathy, pharmacy, podiatry or veterinary medicine. Students should consult the catalog of the school they plan to attend in order to include in their undergraduate program any special prerequisites not included in the biology curriculum.

Dental Schools: Three or four years of college are required for admission to schools of dental medicine. The minimum predental admission requirements are set forth by the American Dental Association. These include completion of a minimum of two years of work in an accredited college of liberal arts and sciences. It should be noted, however, that the majority of the students accepted have completed four years of undergraduate work. The college study must include, as a minimum, at least two semesters' credit in each of the following: English, biology, physics, inorganic chemistry and organic chemistry. Lectures and laboratory work are required in the science courses. The remaining work may be in the liberal arts electives such as history, philosophy, psychology, economics, English, foreign languages, mathematics and sociology. For students entering the Rutgers School of Dental Medicine, a combined seven-year program leading to a Bachelor of Science degree and a Doctor of Dental Medicine (D.M.D.) is offered on the conditions described in this bulletin. see page 252. Students should check "Predental Degree Option" in the index.

The admission course requirements for typical dental schools are 6 credits of English and 8 credits including laboratory of each of the following: biology, inorganic chemistry, organic chemistry and physics. Applicants must take the Dental Admissions Test.

Medical Schools: Entrance credits vary, but most schools require three or four years of college to include a general course in biology, two semesters of general physics, inorganic and organic chemistry and two or four semesters of English. A few require a reading knowledge of a modern foreign language. Mathematics through

calculus is recommended. The Medical College Admission Test of American Medical Colleges is required. Students should check the admission requirements for the medical school they plan to attend.

Requirements for the Bachelor of Science Degree

Prerequisites: elementary algebra, plane geometry, one year of science. Up to precalculus level of mathematics preferred as well as high school biology and chemistry.

Students should see College requirements on pages 54–55 for details of the college general education requirements.

A student concentrating in biology must, in addition, fulfill the following requirements:

Credits

Biology Core

4
4
.4
4
4
2
of
4
4
4

Biology Electives (8 Credits)

Select two 4-credit laboratory courses from major course Areas I, II or III (see above). If two biology elective courses are selected from the same major area, a concentration in that area may be declared.

Mathematics

MATH1107 Precalculus, MATH1133 Applied Statistics and MATH1203 Calculus I.

Physics

*Normally taken freshman year.

Chemistry	Credits
CHEM1201, CHEM1202	
General Chemistry I, II —	
3 credits each semester	6
CHEM1203, CHEM1204	
General Chemistry Laboratory	I, II2
CHEM2261, CHEM2262	
Organic Chemistry I, II	6
CHEM2263, CHEM2264	
Organic Chemistry Laboratory	I, II2

Anatomy and Physiology Concentration

An anatomy and physiology concentration is offered. Students take upper-level electives in areas such as BIOL3253, BIOL3254 Comparative Anatomy and BIOL3337, BIOL3327 General Physiology. For additional information contact the biological and allied health sciences department.

Cell and Molecular Biology Concentration

A cell and molecular biology concentration is offered. Students take upper-level electives in areas such as BIOL3360, BIOL3361 Introduction to Molecular Biology, BIOL4500, BIOL4501 Cell Biology Cancer and BIOL6880 Neurobiology. For additional information contact the biological and allied health sciences department.

Ecology and Environmental Biology Concentration

An ecology and environmental biology concentration is offered. Students take upper-level electives in areas such as BIOL4100, BIOL4110 Marine Ecology, BIOL4460, BIOL4461 Ecotoxicology and BIOL4480, BIOL4481 Insect-transmitted Diseases. For additional information contact the biological and allied health sciences department.

Prepharmacy Concentration

Students in the prepharmacy concentration focus on course work that prepare them for admission to a pharmacy school focusing on prerequisites for pharmacy school such as anatomy, physiology and biochemistry. This particular concentration does not involve an affiliation with any pharmacy school.

Chemistry

Maxwell Becton College of Arts and Sciences Florham Campus

Biology Minor

The biology minor is for students *not* majoring in biology.

Students minoring in biology must take 20 credits distributed as follows:

Credits

Required

BIOL1201, BIOL1203
Biological Diversity (Lecture and
Laboratory)4
BIOL1202, BIOL1204
Introduction to Molecules, Cells and
Genes (Lecture and Laboratory)4
BIOL2003, BIOL2004
Cell Biology (Lecture and Laboratory) 4
And
Option 1
BIOL2049, BIOL2050
Ecology (Lecture and Laboratory) 4
BIOL3256, BIOL3257
Genetics (Lecture and Laboratory)4
or
Option 2
BIOL1205, BIOL1206
BIOL1207, BIOL1208
Anatomy and Physiology I, II
(Lecture and Laboratory)8

Accelerated Programs with Professional Schools

Maxwell Becton College of Arts and Sciences has combined degree programs with professional schools for its exceptional students. In these programs, students earn both their B.S. degree and professional degree in one year less time than the two degrees normally would require separately. These programs include:

- B.S./D.M.D. (Doctor of Dental Medicine) with the Rutgers School of Dental Medicine, Newark.
- B.S./M.D. with Ross University School of Medicine, Portsmouth, Commonwealth of Dominica, West Indies.
- B.S./D.C. (Doctor of Chiropractic) with Life Chiropractic College West, San Lorenzo, Calif.
- B.S./D.C. with Logan University, Chesterfield, Mo.
- B.S./D.C. with Palmer College of Chiropractic, Davenport, Iowa.
- B.S./D.C. with University of Western States, Portland, Ore.
- B.S./D.O. (Doctor of Osteopathic Medicine) with Lake Erie College of Osteopathic Medicine, Erie, Pa.

- B.S./D.P.M. (Doctor of Podiatric Medicine) with New York College of Podiatric Medicine, New York.
- B.S./D.V.M. (Doctor of Veterinary Medicine) with Ross University School of Medicine, Basseterre, St. Kitts, West Indies.

Contact the health preprofessional adviser in the biological and allied health sciences department for more information about these programs.

Chemistry Major (B.S.)

Department of Chemistry and Biochemistry

Requirements for the Bachelor of Science Degree

The Bachelor of Science with a major in chemistry program is designed for students who plan to enter graduate school or the chemical industry. The curriculum is particularly suited for graduate programs in chemical engineering, computational chemistry, nuclear science, environmental science and the pharmaceutical and energy industry. The curriculum is certified by the American Chemical Society.

The program is also well suited to premedical students. Entrance requirements for most medical schools require an undergraduate program to include a general course in biology, general physics, English composition, a modern language and some calculus, in addition to a strong chemistry background. Premedical students should add to the Bachelor of Science with a major in chemistry program two semesters of general biology (botany and zoology) and, perhaps, one advanced biology course as electives. Preprofessional counseling for science and health careers is available on campus. Note: The B.S. in chemistry is American Chemical Society (ACS)-certified.

Required Courses	Credits
CHEM1201, CHEM1202	
General Chemistry I, II	6
CHEM1203, CHEM1204	
General Chemistry Laboratory I,	II2
CHEM2211, CHEM2213	
Inorganic Chemistry	4
CHEM2221, CHEM2223	
Analytical Chemistry	4
CHEM2261, CHEM2262	
Organic Chemistry I, II	6
CHEM2263, CHEM2264	
Organic Chemistry Laboratory I,	II 2
CHEM3241, CHEM3242	
Physical Chemistry I, II	6
CHEM3243, CHEM3244	
Physical Chemistry Laboratory I,	II 4
CHEM3281	
Biochemistry I	3
CHEM3389	
Biochemistry Laboratory	1
·	

Chemistry

Maxwell Becton College of Arts and Sciences Florham Campus

Credits
CHEM4215
Advanced Inorganic Chemistry3
CHEM4233
Instrumental Analysis3
CHEM4234
Instrumental Analysis Laboratory2
CHEM4401
Chemistry Seminar
ENGW1001
Composition I: Rhetoric and Inquiry3
ENGW1002
Composition II: Research and
Argument3
MATH1133
Applied Statistics3
MATH1203, MATH2202
Calculus I, II8
PHYS2003, PHYS2013;
PHYS2004, PHYS2014
General Physics with Calculus I, II 8
Students continuing a language from high
school are advised to satisfy the language
requirement in their first year. In addition,
MATH2203 Calculus III, MATH3318 Dif-
ferential Equations, CSCI1205 Introduc-
tion to Computer Programming, CSCI2232
Data Structures and CSCI2255 Discrete
Structures are recommended.
Electives (1–6 credits)
Students may select from the following list
of courses:
CHEM3282
D:1: -1 II

Electives (1–6 credits)
Students may select from the following list
of courses:
CHEM3282
Biochemistry II
CHEM4215
Advanced Inorganic Chemistry3
CHEM4263
Introduction to Medicinal Chemistry3
CHEM4351
Chemical Kinetics3
CHEM4373
Polymer Chemistry
CHEM4430
Selected Topics in Chemistry3
CHEM4436, CHEM4437
Sophomore Mentored
Research in Chemistry0–3
CHEM4438, CHEM4439
Junior Mentored
Research in Chemistry0–3
CHEM4440, CHEM4441
Senior Mentored Research
in Chemistry0–3
Another course with approval from the
1

Students may take graduate courses as electives in the seventh and eighth semesters with the approval of the chairperson. See the *Graduate Studies Bulletin* for a list of courses and descriptions.

Students should see pages 54–55 for the College requirements for details of the college general education requirements.

Students planning to enter pharmacy or medical school should take BIOL1201, BIOL1203 Biological Diversity; BIOL1202, BIOL1204 Introduction to Molecules, Cells and Genes; BIOL1205, BIOL1207 Anatomy and Physiology I; BIOL1206, BIOL1208 Anatomy and Physiology II; and additional advanced biology courses as advised. Students considering graduate work in biological chemistry should take as electives BIOL1202. BIOL1204 Introduction to Molecules, Cells and Genes: BIOL2003. BIOL2004 Cell Biology; and BIOL3009, BIOL3019 Microbiology. They also might consider BIOL3337 General Physiology and/or courses from the graduate offerings: BIOL6703 Cell Physiology, BIOL6711 Virology and a course in molecular biology.

Chemistry Minor

The chemistry minor is for students *not* majoring in chemistry.

The chemistry minor consists of 19–20 credits distributed as follows:

Credits
CHEM1201, CHEM1202
General Chemistry I, II6
CHEM1203, CHEM1204
General Chemistry Laboratory I, II 2
CHEM2261, CHEM2262
Organic Chemistry I, II6
CHEM2263, CHEM2264
Organic Chemistry Laboratory I, II2
Plus one 2000- or 3000-level chemistry
course3-4

Combined B.S./M.S. in Chemistry with a Concentration in Pharmaceutical Chemistry

A qualified chemistry major in the fifth semester, with departmental approval, may plan a program to complete the requirements for a Master of Science degree in one additional year beyond the program. See Combined Degree Program section of this publication, page 235.

Combined B.S. in Chemistry/ Pharm.D. Seven-year Program

Students admitted into this program will spend six semesters on undergraduate biochemistry or chemistry requirements and eight semesters in the FDU School of Pharmacy and Health Sciences. High school applicants wishing to enter this program must have an SAT score of 1,150 or higher (on the 1,600 scale) and a 3.50 grade point average. To remain in the program, students must maintain a 3.30 grade point ratio in the first six semesters and must also have a grade of B- or better in all prerequisite college courses. See Combined Degree Program section of this publication, page 266.

department chairperson

Clinical Laboratory Sciences • Communication Studies

Maxwell Becton College of Arts and Sciences Florham Campus

Clinical Laboratory Sciences Major (B.S.C.L.S.)

Department of Biological and Allied Health Sciences

Completion of this program will result in a B.S. in Clinical Laboratory Sciences with a concentration in medical laboratory science (medical technology) awarded jointly by Fairleigh Dickinson University and the Rutgers School of Health Professions (Rutgers SHP). Students will complete 96 credits during their first three years at Fairleigh Dickinson University. They then must apply for acceptance to the professional component at Rutgers SHP.

Admission to the clinical courses at Rutgers SHP requires a separate application, usually in the junior year. Consult the allied health adviser for application details and time lines. Admissions decisions for the clinical program are made in accordance with criteria, policies and procedures established by a joint Committee on Admissions and Academic Status for the degree program and cannot be guaranteed by FDU. Students admitted to the clinical program must maintain a minimum grade point ratio of 3.00 and a "C" or better in their prerequisite courses at FDU subsequent to admission.

Also see "Allied Health Sciences Majors," page 64.

Requirements for the Bachelor of Science in Clinical Laboratory Sciences

Medical Laboratory Science (Medical Technology) Concentration

Medical laboratory scientists use sophisticated instruments and biochemical, microscopic, molecular and immunological techniques to analyze medical specimens. They provide essential information to physicians about the presence, extent or absence of disease, as well as the effectiveness of treatment. They also apply their biomedical expertise in many areas such as cancer research, stem cell and organ transplantation and infections and genetic-disease testing.

Biology Requirements BIOL1110	Credits
Medical and Pathological	
Terminology	2
BIOL1201, BIOL1203	
Biological Diversity (Lecture and	i
Laboratory)	
BIOL1202, BIOL1204	
Introduction to Molecules, Cells	
and Genes (Lecture and	
Laboratory)	4
BIOL1205, BIOL1207	
Anatomy and Physiology I (Lect	
and Laboratory)	4
BIOL1206, BIOL1208	
Anatomy and Physiology II (Lec	
and Laboratory)	4
BIOL2003, BIOL2004	
Cell Biology (Lecture and	
Laboratory)	4
BIOL3009, BIOL3019	
Microbiology (Lecture and	4
Laboratory) BIOL3332, BIOL3333	4
Immunology (Lecture and	
Laboratory)	4
Laboratory)	4
Chemistry Requirements	
CHEM1201, CHEM1203	
General Chemistry I (Lecture	
and Laboratory)	4
CHEM1202, CHEM1204	
General Chemistry II (Lecture	
and Laboratory)	4
CHEM2261, CHEM2263	
Organic Chemistry I (Lecture	
and Laboratory)	4
CHEM2262, CHEM2264	
Organic Chemistry II (Lecture	
and Laboratory)	4
CHEM3281, CHEM3389	
Biochemistry I (Lecture and	

Laboratory)......4

Communication Studies Major (B.A.)

Department of Communication Studies

The B.A. in communication studies is a general liberal arts major providing undergraduate students with a grounding in theory and practice in communication in preparation for professional careers or further study. The major emphasizes connections between disciplines dealing with the role of communication in contemporary culture and lays the foundations for excellence in creative and critical thinking, interpersonal skills, writing and speaking.

Requirements for the Bachelor of Arts Degree

Students majoring in communication studies must complete 18 credits of required courses and 27 credits of communication electives.

Required Courses (18 credits)

	Credits
COMM2001	
Perspectives on Communication	
Studies	3
COMM3018	
Mass Communication	3
COMM3019	
Global Communication	3
COMM3022	
Communication Research	3
COMM4001	
Communication Internship I	3
COMM4005	
Literary and Communication The	ory 3

Communication Electives (27 credits)

Students select at least nine COMM-prefixed 3-credit courses.

or

Students have the option of choosing a concentration: human communication, multimedia journalism or public relations (see this page and next page).

Human Communication Concentration

This concentration is for students who wish to gain a thorough understanding of human communication and the theories

Communication Studies

Maxwell Becton College of Arts and Sciences Florham Campus

that describe and explain it. It is recommended for students with an interest in all aspects of human interaction or for students considering an advanced course of study.

Fundamentals (take both courses)

COMM2002 Small Group Communication

COMM2003 Interpersonal Communication

Principles (take two courses)

COMM2005 Narrative Communication

in Media and Everyday Life

COMM2006 Nonverbal

Communication

COMM3004 Organizational Communication

COMM3014 Family Communication

Exploration (take two courses)

COMM2210 Popular Culture and the

Media

COMM3005 Social Media,

Communication and

Community

COMM3023 Film and Culture

COMM3051 Communication and Gender

COMM3437 Talk at Work

Plus

3 COMM Electives

Multimedia Journalism Concentration

This concentration is for students interested in pursuing a career in the ever-changing world of journalism. Although journalism still involves the basics of researching and gathering information, today's journalists have more tools at their disposal for delivering that information to the public: photography, blogs, podcasts, webcasts and more. Potential positions include reporter, editor, newscaster, photojournalist and more.

Fundamentals (take both courses)

COMM2011 Introduction to Journalism

COMM4444 Multimedia Journalism

Principles (take two courses)

COMM2005 Narrative Communication in Media and Everyday

Life

COMM2214 Introduction to Broadcasting COMM3012 Newswriting COMM3016 News Editing

Exploration (take two courses)

COMM2866 Women and Minorities in

Media

COMM3013 Feature Writing COMM3051 Communication and

Gender

COMM3060 Television News COMM3248 Writing for Broadcast

and Podcast

COMM3341 Radio Management COMM3349 Introduction to Television

COMM3432 Sports Journalism

COMM3838 Media Ethics

Plus

3 COMM Electives

Public Relations Concentration

This concentration is for students interested in pursuing a career in the public relations field. The field of public relations has continued to grow and change over the last 10 years and now, more than ever, students need to enhance their knowledge and be well versed in the role that issues of globalization, ethics and responsibility now play in the field. Potential positions include publicity manager, events planner, press agent, lobbyist, strategic communication manager and more.

Fundamentals (take both courses)

COMM2004 Public Relations Principles COMM3035 Public Relations Writing

Principles (take two courses)

COMM3004 Organizational Communication

COMM3030 Events Planning COMM3244 Public Relations

Campaigns

COMM3248 Writing for Broadcast and Podcast

Exploration (take two courses)

COMM2002 Small Group

Communication

COMM2003 Interpersonal

Communication

COMM2005 Narrative Communication in Media and Everyday

Life

COMM2006 Nonverbal

Communication COMM2099 Professional

Communications COMM3005 Social Media,

Communication and

Community

COMM4480 Crisis Communication in a

Public Relations

Context

Plus
3 COMM Electives

Advertising Minor

The 15-credit advertising minor is designed for students interested in studying the theoretical, practical and creative elements that go into the creation of compelling and successful advertisements and advertising campaigns. The philosophy behind the minor builds on the recognition that the professional domain of advertising draws from many varied disciplines. First, students must develop a foundational understanding of the concepts and theories included in the areas of advertising and marketing. Then they must develop and polish their theoretical understanding and professional skills in the areas of computer graphics, desktop publishing and basic video making — they need to understand all of the theoretical and creative elements that go into the creation of both print ads and commercials. Finally, students should be given the opportunity to develop their skills with courses that will enhance their knowledge regarding account management, campaign planning, implementation and evaluation.

Note: In order to fulfill the advertising minor, students must select *no more than* 9 *credits* in their major discipline. This policy is meant to ensure that students are taking full advantage of the interdisciplinary nature of the minor.

Required Courses (9 credits)

S
3
3
3

Communication Studies

Maxwell Becton College of Arts and Sciences Florham Campus

Elective Courses (6 credits)	Elective Courses (6 credits)	Elective Courses (6 credits)
Credits	Credits	Credits
Communication	Cinema Studies	Choose <i>one</i> of the following:
COMM4001	CINE1501	COMM2002
Communication Internship I* 3	Cinematic Storytelling3	Small Group Communication
Computer Graphic Design	Communication	Or COMM2003
CGD2370	COMM3060	Interpersonal Communication
Print Layout3	Television News3	or
CGD3363	COMM3248	COMM3014
Interactive Publishing3	Writing for Broadcast and Podcast3 COMM3341	Family Communication3
Film	Radio Management3	Choose <i>one</i> of the following:
FILM1005	COMM4001	COMM2005
Filmmaking I: Basic Production3	Communication Internship I*3 COMM4002	Narrative Communication in Media and Everyday Life
Marketing	Communication Internship II*3	or
MKTG2120		COMM2210
Principles of Marketing3	Film	Popular Culture and the Media
MKTG4272 Consumer Behavior3	FILM2208	or
MKTG4365	Filmmaking II: The Professional Crew3	COMM2866
Marketing Communications 3	FILM2210	Women and Minorities in Media
Marketing Communications	Postproduction I	or
Broadcasting Minor	FILM2255 TV Navya and Magazina Braduction 7	COMM3018
_	TV News and Magazine Production 3 FILM4461	Mass Communication3
The broadcasting minor is designed for students interested in studying the theoret-	Documentary Filmmaking 3	Journalism Minor
ical, practical and creative elements within	Documentary i mimaking	
the radio and television industries. The	Theater	The journalism minor is intended for stu-
philosophy behind the minor builds on the	THEA2005	dents who seek to develop a richer under-
recognition that the professional domain of	Directing I3	standing of print, online and broadcast
broadcasting draws from many varied dis-	THEA2203	media. The purpose of the minor in journalism is to offer students the opportunity
ciplines. First, students must develop a	TV Writing and Screenwriting I3	to build a skill-set suitable for the profes-
foundational understanding of the con-	THEA3336	sional field of news media. Students can
cepts and theories included in the areas of	Acting for Film and Television3	choose from a variety of courses such as
radio and television. Then students can	Writing and Creative Writing	newswriting, news editing and article writ-
choose to further develop their skills in	CREW1002	ing. They can also gain newsroom experi-
one or more of the areas through their	Introduction to Fiction Writing3	ence through general work with the school
selection of elective courses. Students are	CREW2250	newspaper, The Pillar, or the completion of
encouraged to take at least one approved	Screenwriting I3	a department-approved internship.
broadcasting internship in the field of their choice, as prospective employers look for	0	
practical field experience from students.	Communication Minor	Required Courses (9 credits)
Note: In order to fulfill the broadcast-	The communication minor is for students	COMM2011
ing minor, students must select <i>no more</i>	interested in the communication disci-	Introduction to Journalism3
than 9 credits in their major discipline.	pline who are <i>not</i> majoring in communi-	COMM3012
This policy is meant to ensure that stu-	cation studies.	Newswriting3
dents are taking full advantage of the inter-	Required Courses (9 credits)	COMM3016 News Editing3
disciplinary nature of the minor.	COMM2001	News Editing
Paguired Courses (0 aredita)	Perspectives on Communication	Elective Courses (6 credits)
Required Courses (9 credits)	Studies3	COMM2851
COMM2214 Introduction to Broadcasting3	COMM3019	Visual Journalism3
COMM3349	Global Communication3	COMM3013
Introduction to Television	COMM3050 Communication Theory	Feature Writing3
FILM1005	or	COMM3015
Filmmaking I: Basic Production3	COMM4005	Political Reporting: Journalism in
- C	Literary and Communication Theory3	an Election Year3
	1 11001 y	COMM3018

*Internship must be in radio or television.

*Internship must be in radio or television.

Mass Communication...... 3

Communication Studies

Maxwell Becton College of Arts and Sciences Florham Campus

Credits
COMM3223
Mass Communication Law3
COMM3248
Writing for Broadcast and Podcast3
COMM3432
Sports Journalism3
COMM3838
Media Ethics3
COMM4001
Communication Internship I* 3
COMM4444
Multimedia Journalism3

Political Communication Minor

The political communication minor exposes students to an array of academic skills, substantive knowledge and political experiences that will help them analyze, understand and deploy political discourse in a variety of forms including campaign materials, media coverage, rhetoric, advertisements, constituent communications, persuasive writing and more technical communication and correspondence. The minor addresses issues such as publicopinion formation, strategic communication, press-state relations, communication between publics, political participation and international relations.

Required Courses (6 credits)

COMM2001

00111112001
Perspectives on Communication
Studies3
GOVT2045
Public Opinion3

Elective Courses (9 credits)

Two courses each from communication studies and political science from the list below:

Credits
COMM2011
Introduction to Journalism3
COMM2866
Women and Minorities in Media3
COMM3012
Newswriting3
COMM3018
Mass Communication3
GOVT1000
American Government and Politics 3
GOVT2520
Qualitative Research Methods3
GOVT2526
Polls and Surveys
GOVT4498
Internship in Government and Law* 3
Rotating Topical Courses
COMM3004
Organizational Communication3
COMM3015
Political Reporting: Journalism in
an Election Year3
COMM3051
Communication and Gender3
GOVT2015
Campaigns and Elections3
GOVT2526
Polls and Surveys3
GOVT3040
Politics and the Media3
GOVT3060
Political Behavior3

Public Relations Minor

The public relations minor is designed for students interested in studying the theoretical and practical elements associated with the ethical and responsible practice of public relations and corporate communications. The field of public relations has continued to grow and change over the last 10 years and now, more than ever, students need to enhance their knowledge and be well versed in the role that issues of globalization, ethics and responsibility now play in the field.

Required Courses (6 credits)

Credits

COMM2004
Public Relations Principles3
COMM3035
Public Relations Writing3
FI .: 0 (0 II.)
Elective Courses (9 credits)
Three courses from the following:
COMM2099
Professional Communications3
COMM3004
Organizational Communication3
COMM3030
Events Planning3
COMM3244
Public Relations Campaigns3
COMM4001
Communication Internship I*3
PSYC1201
General Psychology 3
PSYC3310
Social Psychology3
PSYC3318
Psychology of Everyday
Persuasion**3

Accelerated Combined Degree Program — B.A. in Communication Studies/ M.A. in Communication

The department also offers an accelerated B.A. in communication studies/M.A. in communication program. For more information, see page 214.

^{*}Approval of instructor required.

^{*}Internship must be in the area of public relations. **Offered at Wroxton College.

Computer Science

Maxwell Becton College of Arts and Sciences Florham Campus

Computer **Science Major** (B.S.)

Department of Mathematics, Computer Science and Physics

Requirements for the **Bachelor of Science Degree**

The Bachelor of Science program is designed to give students broad knowledge in the theoretical as well as practical aspects of computer science.

Students must complete 30 credits of required course work in the area of computer science as well as 12 credits of elective course work. In addition, students will complete 14 credits in mathematics and 8 credits in physics to be distributed as fol-

Computer Science Required Courses (30–31 credits)

Credits
CSCI1205
Introduction to Computer
Programming3
CSCI2215
Introduction to Computer Science3
CSCI2216
Introduction to Computer Science II3
CSCI2233
Data Structures and Algorithms3
CSCI2255
Discrete Structures3
CSCI3278
Operating Systems3
CSCI3304
Computer Organization3
CSCI3315
Software Design3
CSCI3371
Modeling and Simulation
or
MATH3303
Probability3
CSCI14391
Senior Project I1
and
CSCI14391
Senior Project II2
or
CSCI4498
Co-op in Computer Science3

Electives (12–17 credits)

Four additional courses to be selected from the 3000- or higher-level offerings in computer science (CSCI designation).

Mathematics Required Courses (11 credits)

(Credits
MATH1203	
Calculus I	4
MATH2202	
Calculus II	4
MATH3318	
Differential Equations	
or	
MATH3220	
Linear Algebra	3

Electives (3 credits)

One additional course to be selected from the mathematics offerings (MATH designation) above the level of MATH2255 Discrete Structures.

Physics

Required Courses (8 credits) PHYS2003, PHYS2013, PHYS2023 General Physics with Calculus I......4 PHYS2004, PHYS2014, PHYS2024

General Physics with Calculus II.....4

Cybersecurity Concentration

Students planning to major in computer science with a concentration in cybersecurity will take specialized courses in computer science and mathematics such as cryptography and network and data security. There is a provision for internships that will provide practical experience in the field. Courses in this concentration will cover a range of topics from an overview of computer security, foundations — access control matrix, policy - security policies, confidentiality policies, integrity policies and hybrid policies to implementation information-hiding techniques steganography, digital watermarking, cryptography, fingerprinting, key management, cipher techniques, authentication, access control mechanisms, confinement problem, user and system security, data security, copyright, digital certificates and digital rights management.

The National Security Agency (NSA) and the Department of Homeland Security (DHS) have designated Fairleigh Dickinson University as a National Center of

Academic Excellence in Information Assurance Education (CAE/IAE) for the academic years 2012 through 2015. It has been renewed for the period 2015 through 2020.

Required Courses (24 credits)
Credits
CSCI1205
Introduction to Computer
Programming3
CSCI2215
Introduction to Computer Science3
CSCI2216
Introduction to Computer Science II3
CSCI2233
Data Structures and Algorithms3
CSCI2255
Discrete Structures3
CSCI3278
Operating Systems3
CSCI3304
Computer Organization3
CSCI3315
Software Design3
CSCI3371
Modeling and Simulation3
CSCI4499
Co-op Computer Science3
Computer Science Electives
(18 credits)
Students opting for the cybersecurity con-
centration will include the following in their
choice of electives:
CSCI3157
Cyber Security3
Cyper Security

CSCI3355 Introduction to Cryptography......3 CSC13666

Data Communications and Computer Networks...... 3 CSCI3869 Network Security......3

In addition to 6 credits of electives in computer science.

Recommended Electives

CSC13208	
Database Systems	3
CSCI3333	
Computer Algorithms	3

Computer Science

Maxwell Becton College of Arts and Sciences Florham Campus

Cognate Courses	Credits	Credits
Credits	MATH3303	CSCI3315
MATH1203	Probability3	Software Design
Calculus I4		CSCI3371
MATH2202	Elective Courses (18 credits)	Modeling and Simulation
Calculus II4	CSCI3268	CSCI4391
MATH3318	Database Systems 3	Senior Project I
Differential Equations	CSCI3269	CSCI4392
Or	Introduction to Data Mining3	Senior Project II2
MATH3220	CSCI3270	
Linear Algebra3	Introduction to Machine Learning3	Elective Courses (18 credits)
PHYS2003, PHYS2013, PHYS2023	CSCI3333	Additional courses to be selected from the
General Physics with	Computer Algorithms 3	2000- or higher-level offerings in computer
Calculus I4	CSCI3998	science (CSCI designation). Students opt-
PHYS2004, PHYS2014, PHYS2024	Artificial Intelligence3	ing for the game development concentra-
General Physics with	Any 3000- or 4000-level CSCI course3	tion must include the following in their
Calculus II4	•	choice of electives.
As part of the humanities and social	Additional Cognate Requirements	CSCI3333
science requirements, students will opt to	MATH1203	Computer Algorithms3
ake PHIL1103 Ethics and SOCI2306	Calculus I4	CSCI3388
Crime and Criminology.	MATH2202	Introduction to Game Programming3
erinic and erininiology.	Calculus II	CSCI3998
Data Mining Concentration	MATH3220	Artificial Intelligence
Students planning to major in computer	Linear Algebra3	CSCI4488
science with a concentration in data min-	PHYS2003, PHYS2013, PHYS2023	Advanced Game Programming
ng will take courses in computer science	General Physics with	CSCI electives from levels 3000
and mathematics. The concentration was	Calculus I4	and 4000 (CSCI3268 Database
designed based on guidelines provided by	PHYS2004, PHYS2014, PHYS2024	Systems is recommended)
the ACM SIGKDD (Association for Com-	General Physics with	
puting Machinery's Special Interest	Calculus II4	Additional Cognate Requirements
Group on Knowledge Discovery and Data	Calculate 11	MATH1203
Mining) Curriculum Committee.	Game Development	Calculus I4
winning) Curriculum Committee.	Concentration	MATH2202
Denvised Courses (21 and the)		Calculus II.
Required Courses (31 credits)	Students planning to major in computer	MATH3220
CSCI1205	science with a concentration in game	Linear Algebra3
Introduction to Computer	development will take courses in computer	PHYS2003, PHYS2013, PHYS2023
Programming3	science, mathematics and animation. The	General Physics with
CSCI2215	concentration prepares students for a	Calculus I
Introduction to Computer Science3	career in gaming as well as in computer	PHYS2004, PHYS2014, PHYS2024
CSCI2216	science. Students will take special courses	General Physics with
Introduction to Computer Science II3	that have been designed for this concentra-	Calculus II4
CSCI2233	tion as well as courses in animation and	Students should also select three cog-
Data Structures and Algorithms3	game design.	nates from the following.
CSCI2255	Paguired Courses (27 avadita)	ANIM2240
Discrete Structures3	Required Courses (27 credits)	Low Poly 3D Modeling
CSCI3278	CSCI1205	ANIM2500
Operating Systems3	Introduction to Computer	3D Computer Animation
CSCI3304	Programming3	ANIM3330
Computer Organization3	CSCI2215	3D Environment Modeling 3
CSCI3315	Introduction to Computer Science3	ANIM3341
Software Design3	CSCI2216	Character Animation Using CAT3
CSCI4391	Introduction to Computer Science II3	Character Annhation Using CA1
Senior Project I1	CSCI2233	Computer Science Miner
and	Data Structures and Algorithms3	Computer Science Minor
CSCI4392	CSCI2255	The computer science minor is for stu-
COCITJ92		dents not majoring in computer science

CSCI3278

Discrete Structures.....3

Operating Systems......3

dents not majoring in computer science.

Students who wish to minor in computer

science must take 15 credits in computer

science, distributed as follows:

CSCI4498

Senior Project II.....2

Co-op in Computer Science.....3

Creative Writing

Maxwell Becton College of Arts and Sciences Florham Campus

Required Courses (12 credits)

CSCI1205	Introduction to Computer
	Programming
CSCI2215	Introduction to Computer
	Science
CSCI2216	Introduction to Computer
	Science II
CSCI2255	Discrete Structures

Elective Courses (6 credits)

Six credits of additional course work in computer science to be selected from the 2000- or higher-level offerings in computer science (CSCI designation).

Five-year Combined Degree Program — B.S./M.S. in Computer Science

The department also offers a five-year B.S./M.S. in computer science program. For more information see page 238.

Creative Writing Major (B.A.)

School of the Arts

The B.A. in creative writing offers wonderful opportunities for emerging writers as they prepare for careers in a variety of fields. Students have the chance to study with nationally celebrated professional authors and editors and to play a valued role in a vital community of writers and readers. The distribution of course requirements provides students with a solid background in literary studies, an introduction to creative writing in a number of genres, an advanced focus in a particular genre and an opportunity to choose from dozens of complementary minors to tailor the major to the student's particular interests and needs.

Students have the chance to work as interns at *The Literary Review*, one of the most prestigious literary magazines in the country heading into its 61st year of publishing important writers from around the world. FDU's online student magazine, *Sphere*, offers students the chance to work in all aspects of publishing as they collaborate to create the world's first international student literary journal while making friends and contacts here and around the world.

The program is devoted to providing students with the best possible foundation for careers both in and out of the creative writing field. The program's students are editors, lawyers, writers, teachers, professors and advertising and marketing executives — and many choose to go on to graduate school in creative writing or literature. Students will have many opportunities to volunteer in the community and discover just how much their particular talents are valued in the world while making a significant contribution to it.

Requirements for the Bachelor of Arts Degree

Students majoring in creative writing must complete 30–36 credits of writing courses and 9 credits of literature courses. An internship in an appropriate setting can be used as a writing elective.

Required Courses (24 credits)

nequired Courses (24 credits)
Credits
CREW1001
Introduction to Creative Writing3
CREW2002
Creative Writing: Fiction3
CREW2003
Creative Writing: Poetry3
CREW2255
Playwriting and Dramatic Structure
or
CREW2250
Screenwriting I3
CREW3020
Reading as Writers
(by spring of junior year)3
CREW4001
Senior Writing Project I
(by fall of senior year)3
CREW4002
Senior Writing Project II
(by spring of senior year)3
Required Electives (6–12 credits)
Students must take an advanced (3000-
level) course in at least two of the four gen-

level) course in at least two of the four genes; students must have completed the 2000-level course before enrolling in the 3000-level course.

Students may elect other CREW 3000-level courses.

CREW2016 CNF: What's Your Real Story3
CREW3010
Special Topics: Invented
Worlds — Speculative and
Fantastic Fiction
CREW3011
Advanced Fiction Writing3
CREW3012

Advanced Poetry Writing......3

Advanced Dramatic Writing......3

Special Topics: Telling the Truth......3

Additional Electives

CREW3013

CREW3023

KE W 4490			
Internship	(Creative	Writing)3

Criminology

Maxwell Becton College of Arts and Sciences Florham Campus

Literature Electives (9 credits)

Entorataro Endotrivos (o ordanto)	
	Credits
LITS2001	
Survey I: Ancient to Early Modern	1
or	
LITS2002	
World Literature II: 13th-18th	
Centuries	
or	
LITS2003	
Survey III: Approaches to World	
Literature	3
and	
6 additional credits in LITS at the	
2000_4000 level	

Creative Writing Minor

applied to these electives.

For students *not* majoring in creative writing.

Wroxton ENGL courses may be

Required Course (3 credits)

CREW1001

Introduction to Creative Writing......3

Electives (12 credits)

Select one of the following advanced writing courses after having completed the 2000-level course in the same genre or with the permission of the instructor: LITS2001

Literature......3

Accelerated Combined Degree Program — B.A. in Creative Writing/M.F.A. in Creative Writing Program

For the accelerated combined B.A. in creative writing/M.F.A. in creative writing degree program, see page 215.

Criminology Major (B.A.)

Department of Social Sciences and History

Requirements for the Bachelor of Arts Degree

The criminology major focuses on the nature and causes of crime and on the operation of the criminal justice system both nationally and internationally. Courses focus on the biological, psychological and sociological factors that cause crime; the consequences of crime; the impact of crime on victims and offenders; and the various mechanisms of enforcement and control at the local, state, federal and international levels. Additional courses focus on the social, political and economic factors that underlie crime; theories of punishment; the administration of justice in the United States; and some of the major trends in the field during the last 35 years, which include an examination of mandatory drug laws, zero-tolerance policing and sex-offender legislation. Students majoring in criminology take a minimum of 36 credits. These include the required foundation courses (15 credits); four electives drawn from criminology and/or sociology (12 credits); two electives drawn from government and law, psychology, anthropology or history (6 credits); and a required criminology internship (3 credits).

Major Requirements (36–45 credits) Required Major Courses (18 credits)

•
Credits
CMLGY1201
Introduction to Sociology3
CMLGY1306
Introduction to Crime and
Criminology 3
CMLGY2203
Research Methods in Criminology3
CMLGY2307
Deviance and Social Control3
CMLGY3309
Policy Analysis3
CMLGY3997
Internship in Criminology1-6

Criminology Internship (3-6 credits)*

Students must take at least one of the following:

	Credits
CMLGY3997	
Internship in Criminology	1–6
CMLGY3998	
Internship in Criminology	1–6

Criminology Electives (18–27 credits)

Students must each take a minimum of 18 elective credits; 12 of these credits must be drawn from criminology/sociology courses, with at least 6 additional credits drawn from designated courses from at least two of the following fields: anthropology, history, government and law and psychology.

ry, government	and law and psychology.
Anthropology	
ANTH2430	Anthropology of Law
ANTH2441	Forensic Anthropology
ANTH3349	War and Crime
Criminology	
CMLGY2300	Wrongful Convictions
CMLGY2431	Anthropology of Crime
CMLGY2701	Penology
CMLGY3301	Women and Crime
CMLGY3307	Civil Liberties and Civil
	Rights
CMLGY3310	Juvenile Delinquency
CMLGY3316	Global Terrorism
Government ar	nd Law

	CMLGY3310	Global Terrorism
	Government an	nd Law
	GOVT1200	Introduction to Law
	GOVT2230	Judicial Process
	GOVT3200	American Constitutional
Law		
	GOVT3210	Civil Liberties and Civil

Rights
GOVT3220 Criminal Law
GOVT3240 Law and Society

Additional relevant courses may be permitted through the substitution and waiver process.

process.	
History	
HIST2349	Contemporary America: 1968–Present
HIST3250	Crime and Punishment in South Africa
Psychology	
PSYC3005	Abnormal Psychology
PSYC3310	Social Psychology
PSYC3334	Psychopharmacology
PSYC3360	Forensic Psychology

*Students may also satisfy the criminology internship requirement through approved participation in The Washington Center for Internships.

English Language and Literature

Maxwell Becton College of Arts and Sciences Florham Campus

Sociology	
SOCI2248	Globalization,
	Culture and Identity
SOCI2307	Social Deviance
SOCI2308	Gender and Deviance
SOCI2310	Social Problems
SOCI2316	Sociology of the Family
SOCI2319	Nationalism and
	Ethnicity
SOCI3308	Drugs in American
	Society
SOCI3310	Juvenile Delinguency

CMLGY3404 International Criminal Law

CMLGY3841 Torture

CMLGY3997 Internship in Criminology Students must have approval from criminology program director to count courses not found on this list toward the criminology minor.

Criminology Minor

The minor in criminology enables students to examine the following as they relate to race, class, gender and sexuality:

- Nature and causes of crime,
- · Deviant and criminal behavior and
- Aspects of the criminal justice system (e.g., police, courts, prison, etc.)

Required Course (3 credits)

CMLGY1306 Introduction to Crime and Criminology

Electives (12 credits)

Licctives 12	. Greatts/
Students shoul	d select the remaining four
courses from the	ne following list:
CMLGY1201	Introduction to Sociology
CMLGY2203	
	Criminology
CMLGY2204	Qualitative Research
	Methods
CMLGY2300	Wrongful Convictions
CMLGY2307	Deviance and Social
	Control
CMLGY2317	Probation and Parole:
	Theory and Practice
CMLGY2333	Criminal Law
CMLGY2360	Victimology
CMLGY2431	Anthropology of Crime
CMLGY2701	Penology
CMLGY3005	Abnormal Psychology
CMLGY3012	Crisis Intervention
CMLGY3030	Surveillance and Security
CMLGY3040	Capture and Control
CMLGY3207	Offender Reentry and
	Reintegration
CMLGY3301	Women and Crime
CMLGY3307	Civil Liberties and Civil
	Rights
CMLGY3308	Law and Society
CMLGY3309	Policy Analysis
CMLGY3310	Juvenile Delinquency
CMLGY3316	Global Terrorism
CMLGY3349	War and Crime
CMLGY3360	Forensic Psychology

English Language and Literature Major (B.A.)

Department of Literature, Language, Writing and Philosophy

In the 21st century, literature is a global art that transcends borders, illuminating human concerns, beliefs and experiences. Through the study of a wide range of literary works from past and present and from throughout the world, English language and literature majors in the Maxwell Becton College of Arts and Sciences develop insights needed to understand the diverse aesthetic, cultural and historical bases of literature, and enhance their ability to read with critical understanding and write clearly and analytically.

The English language and literature major offers two options: a track in **English and American literature** and a track in **world literature**. In addition, there are options for students in the five-year QUEST program.

Requirements for the Bachelor of Arts Degree

Students majoring in literature must complete 15 credits of required courses and 27 credits of literature electives.

English and American Literature Track

Required Courses (15 credits)

Credits
LITS2001
Survey I: Ancient to Early Modern3
LITS2002
World Literature II: 13th-18th
Centuries3
LITS2003
Survey III: Approaches to World
Literature3
LITS2004
Introduction to Literary Criticism3
LITS4001
Senior Seminar: English and
World Literatures3

English Language and Literature

Maxwell Becton College of Arts and Sciences Florham Campus

Literature Electives (24 credits)	
National Traditions Choose three courses (9 credits) from the following:	
Credits	
LITS3011 American Literature I	
LITS3012	
American Literature II	
LITS3013	
African-American Literature3	
LITS3020	
18th-century British Literature3 LITS3021	
Victorian Age	
LITS3051	
Medieval Literature3	
LITS3054	
Romanticism3	
British Writers3	
LITS3202	
American Writers: Race in Black	
and White3	
LITS3212	
Chaucer3 LITS3213	
Shakespeare I	
LITS3221	
Medieval and Renaissance Women	
Writers3	
LITS3230	
Jane Austen: Fiction and Film3	
Genres	
Choose three courses (9 credits) from the	
following (only one course from LITS3151	
Detective Fiction, LITS3152 Science Fiction	
and LITS3153 Comic Books and Graphic	
Novels): LITS3101	
Greek and Roman Drama3	
LITS3102	
Studies in Drama3	
LITS3103	
Modern Drama: 1880–19303	
LITS3104 Contemporary American Drama3	
LITS3105	
Contemporary European Drama3	
LITS3106	
Contemporary World Drama3	
LITS3107	
Hispanic Drama	
LITS3111 Studies in Poetry3	
Diddies III I Octiy	

Credits
LITS3112 20th-century Poetry3
LITS3121
Studies in the Novel3
LITS3122
20th-century Novel3 LITS3123
Contemporary Fiction3
LITS3151
Detective Fiction
Science Fiction
LITS3153
Comic Books and Graphic Novels 3
LITS3154 Women's Autobiography3
,, enter e 1 tares segraphy
Topics
Choose three courses (9 credits) from the following:
LITS2008
Literary Perspectives on Global
Cultures3
LITS3014
American Dreams, American
Tragedies3 LITS3072
Latin-American Women Writers3
LITS3301
The English Language 3
LITS3302
Myth and Sacred Texts3 LITS3303
World Folk Literature3
LITS3311
Children's Literature3
LITS3312
Young Adult Literature3 LITS3321
Post-modern Literature3
LITS3322
Post-colonial Studies3
LITS3331 Ethnic American Literature3
LITS3341
Queer Literature3
LITS3351
Literary Perspectives on the
Environment3

World Literature Track

Required Courses (15 credits)

Credits

LITS2001
Survey I: Ancient to Early Modern3
LITS2002
World Literature II: 13th-18th
Centuries3
LITS2003
Survey III: Approaches to World
Literature3
LITS2004
Introduction to Literary Criticism3
LITS4001
Senior Seminar: English and
World Literatures3
Electives (24 credits)
Fifteen credits must emphasize non-West-

Fifteen credits must emphasize non-Western literature. Courses emphasizing non-Western literature are designated with an asterisk.

Choose three courses (9 credits) from the

National Traditions

following:

LITS3082

LITS3211

LITS3215

Toth- and Toth-century
European Fiction3
LITS3054
Romanticism3
LITS3061
Contemporary World Literature*3
LITS3064
Vietnam in Film and Literature1
LITS3070
Voices of Contemporary India*3
LITS3071
Contemporary African Literature
and Culture*3
LITS3081
Hispanic Traditions*3

Francophone World*......3

Dante......3

^{*}Courses emphasizing non-Western literature.

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Credits
LITS3221 Medieval and Renaissance Women
Writers
LITS3230
Jane Austen: Fiction and Film
Genres
Choose three courses (9 credits) from the
following (only one course from LITS3151
Detective Fiction, LITS3152 Science Fiction
and LITS3153 Comic Books and Graphic
Novels):
LITS3101
Greek and Roman Drama
LITS3102
Studies in Drama
LITS3103
Modern Drama: 1880–1930
LITS3104
Contemporary American Drama3
LITS3105
Contemporary European Drama3
LITS3106
Contemporary World Drama3
LITS3107
Hispanic Drama*
LITS3111
Studies in Poetry3
LITS3112
20th-century Poetry3
LITS3121
Studies in the Novel
LITS3122
20th-century Novel
LITS3123
Contemporary Fiction
LITS3151
Detective Fiction
LITS3152
Science Fiction
LITS3153
Comic Books and Graphic Novels 3
LITS3154
Women's Autobiography3
LITS3155
The Gothic in Fiction and Film3
LITS3156
The Novel in Letters
T:
Topics
Choose three courses (9 credits) from the
following:
LITS2008
Literary Perspectives on Global
Cultures3
LITS3014
American Dreams, American
Tragedies3

*Courses emphasizing non-Western literature.

Credit	S
LITS3072	
Latin-American Women Writers*	3
LITS3301	
The English Language	3
LITS3302	
Myth and Sacred Texts*	3
LITS3303	
World Folk Literature*	3
LITS3311	
Children's Literature	3
LITS3312	
Young Adult Literature	3
LITS3313	
Nobel Literature	3
LITS3321	
Post-modern Literature*	3
LITS3322	
Post-colonial Studies*	3
LITS3331	
Ethnic American Literature	3
LITS3341	
Queer Literature	3
LITS3351	
Literary Perspectives on the	
Environment*	3

English Language and Literature Minor

The English language and literature minor is for students who are *not* majoring in English language and literature.

Required Courses (6 credits)

Electives (12 credits)

Any four LITS courses at the 2000-level or above or FREN, ITAL and SPAN 3000-level courses.

Film and Animation Major (B.A.)

School of the Arts

The B.A. in film and animation is the choice for students who want to produce, direct, animate, write and shoot their own creative projects, as well as work in the growing field of film, video and digital entertainment. Within the major are seven concentrations: **2D animation**, **3D animation**, **cinematography**, **directing**, **editing**, **film** and **video game animation**.

2D, 3D Animation Concentrations

FDU's undergraduate animation program offers three concentrations (3D animation, 2D animation and video game animation [see page 84 for video game animation]). Upon entry, animation majors select one of these concentrations to be their area of focus. As they work their way through the curriculum, students have the option to switch concentrations should they decide to do so. Anyone interested in doing double concentrations should meet with the program director on an individual basis to determine if that is possible.

2D animation exists in space that consists of height and width. The motion is comprised of one drawing followed by another in a slightly different pose, followed by another in a slightly different pose and so on. 2D computer software is used to execute the elements needed to produce today's two-dimensional animations.

Animations created in 3D computer software packages exist in an X, Y and Z world. The elements created for these kinds of projects are treated almost as physical objects that can be lit to emulate real-world situations, textured realistically and cameras can be placed to view these environments from any angle.

In addition to the credits required for each concentration shown below, students must fulfill the college general education requirements (see pages 54–55).

^{*}Courses emphasizing non-Western literature.

Maxwell Becton College of Arts and Sciences Florham Campus

3D Animation Concentration Requirements	<i>Major Electives (15–18 credits)</i> 5–6 ANIM1000- to 4000-level courses	Concentration Requirements (9 credits)
Required Theory and Production		Select three courses from the following:
(30 credits)	Cognate Requirements (12 credits)	Credits
Credits	Credits	FILM3211
ANIM1500	ART1201	Cinematography: Lighting3
Storyboarding3	Drawing I	FILM3214
ANIM1750	CGD1313	Cinematography: Camerawork3
Motion Graphics with After Effects [®] 3	Creative Imagery with Photoshop3	FILM3401
ANIM1850	CGD1314	Advanced Cinematography3
3D Computer Modeling3	Illustrator Graphics and Design3	FILM3430
ANIM2270		Reality TV Production3
ZBrush Digital Sculpting Human	Select one from the following:	FILM4465
Anatomy3	ART1202	Client-driven Production I3
ANIM2500	Drawing II3	Major Electives (6–9 credits)
3D Computer Animation3	ART1250	-
ANIM3330	Art of the Graphic Novel	Cognate Requirements
3D Environment Modeling3	ART3302	(10–16 credits)
ANIM3331	Life Drawing 3	ART1191
Logo and Product Animation 3		Photography I
ANIM3341	Cinematography	CGD1313
Character Animation Using CAT3	Concentration	Creative Imagery with Photoshop3
ANIM4500	Cinematography is an art form unique to	COMM3349
Thesis I3	motion pictures, and the director of pho-	Introduction to Television3
ANIM4600	tography contributes in areas as diverse as	THEA3112
Thesis II3	the look of the film, what lighting instru-	Lighting for the Stage
	ments to use, production design and cam-	THEA3351
Major Electives (12–15 credits)	era movement. The cinematography	Production and Crew I 1
4–5 ANIM1000- to 4000-level courses	concentration will train cinematographers	Any survey or auteur course 3
	in both the technical and aesthetic skills of	Directing Concentration
Cognate Requirement (3 credits)	the cinematographer. Students also com-	The directing concentration is an area that
CGD1313	plete courses in other skill areas, as	covers a wide array of skills. Directors for
Creative Imagery with Photoshop3	required of a film and animation major.	the film medium must be educated in both
Creative imagery with rhotoshop	Core Major Requirements	technical and aesthetic areas that encom-
2D Animation Concentration	(27 credits)	pass what goes on both behind and in
	CINE1350	front of the camera. Directors must work
Requirements	History of Film3	with other artists to make the film, all the
Required Theory and Production	CINE1501	while keeping in mind the experience of
(27 credits)	Cinematic Storytelling3	the audience. Story structure, perfor-
ANIM1300	FILM1005	mance, camera, editing, sound, set and
Writing for Animation3	Filmmaking I: Basic Production3	production design — all come under the
ANIM1400	FILM2208	auspices of the film director. Students also
Character Design3	Filmmaking II: The Professional Crew3	complete courses in other skill areas, as
ANIM1500	FILM2210	required of a film and animation major.
Storyboarding3	Postproduction I3	Core Major Requirements
ANIM1501	FILM2250	
Fundamentals of Animation	Screenwriting I3	(27 credits)
Principles3	FILM3209	CINE1501
ANIM1750	Filmmaking III: Mastering the Art	Cinematic Storytelling3
Motion Graphics with After Effects [®] 3	and Craft of Film Production3	CINE3350
ANIM1800	FILM4311	Twentieth-century Cinema
Vector Animation Using Animate CC3	Producing and Directing the	FILM1005
ANIM2100	Thesis Film I3	Filmmaking I: Basic Production3
Tradigital Animation3	FILM4312	FILM2208
ANIM4500	Producing and Directing the	Filmmaking II: The Professional Crew3
Thesis I3	Thesis Film II3	FILM2210
ANIM4600		Postproduction I
Thesis II3		FILM2250

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Credits	making." The editing room is where a	Credits
FILM3209	story can be put together and taken apart;	COMM2210
Filmmaking III: Mastering the Art	it's where music and sound can be placed	Popular Culture and the Media
and Craft of Film Production3	to enhance a story. And managing all the	MUSIH2205
FILM4311	elements of postproduction — from sync-	Music for the Movies
Producing and Directing the	ing sound to cutting picture, to sound mix-	THEA3351
Thesis Film I3	ing and finalizing special effects — are	Production and Crew I
FILM4312	under the management of the editor and	FILM survey or auteur course
Producing and Directing the	postproduction supervisor. Students also	(with department approval)
Thesis Film II3	complete courses in othere skill areas, as	, 1
Concentration Requirements	required of a film and animation major.	Film Production Concentration
-	Core Major Requirements	In the film production concentration, stu-
(9 credits)		dents learn modern digital film produc-
CINE2350	(27 credits)	tion, which has begun to take over the
The American Film Director3	Credits	independent film circuit by storm, as well
FILM3363	CINE1501	as industry-standard video and film pro-
Film Directing	Cinematic Storytelling3	duction, shooting projects with HD, (HL),
FILM survey or auteur course	CINE3350	24p digital cameras, professional Betacam
(with department approval)3	Twentieth-century Cinema 3	and Arriflex 16mm cameras. Students
Major Electives (6–9 credits)	FILM1005	learn nonlinear postproduction in Becton
Note: Three credits in internship experience	Filmmaking I: Basic Production3	College's Final Cut and Avid Editing
may be used to fulfill major elective require-	FILM2208	Rooms. Courses in screenwriting, direct-
ments.	Filmmaking II: The Professional Crew3	ing, lighting and cinematography comple-
	FILM2210	ment production and postproduction
Cognate Requirements	Postproduction I3	
(10–16 credits)	FILM2250	courses. The program culminates in senior
CGD1313	Screenwriting I3	thesis projects screened at a public movie
Creative Imagery with Photoshop3	FILM3209	theater.
COMM2210	Filmmaking III: Mastering the Art	Required Theory and Production
Popular Culture and the Media3	and Craft of Film Production3	(27 credits)
MUSIH2205	FILM4311	CINE1501
Music for the Movies3	Producing and Directing the	Cinematic Storytelling
PHIL1106	Thesis Film I	CINE3350
Ideas of Happiness3	FILM4312	Twentieth-century Cinema
PHIL1107	Producing and Directing the	FILM1005
Dreams and the Imagination 3	Thesis Film II	Filmmaking I: Basic Production
PHIL1436		FILM2208
Asian Philosophy3	Concentration Requirements	Filmmaking II: The Professional Crew3
PHIL2102	(9 credits)	FILM2210
Space and Time3	FILM2214	Postproduction I
PSYC3015	Audio for Film and Video3	FILM2250
Theories of Personality3	FILM3212	Screenwriting I
PSYC3331	Postproduction II3	FILM3209
Theories of Learning3	FILM3430	Filmmaking III: Mastering the Art
PSYC3333	Reality TV Production	and Craft of Film Production3
Sensation and Perception3	FILM4461	FILM4311, FILM4312
PSYC4291	Documentary Filmmaking	Producing and Directing the
History and Systems of Psychology3	or	Thesis Film I, II
THEA1110	FILM4465	THESIS THIII I, IL
Introduction to Acting3	Client-drive Production I 3	Maiar Flactive Courses /Film
THEA2005	Major Electives (6–9 credits)	Major Elective Courses (Film
Directing I3	Note: Three credits in internship experience	Production)
THEA3351	may be used to fulfill major elective require-	(15–25 credits)
Production and Crew L	-	
	ments.	Cognate Requirements
Editing Concentration	Cognate Requirements	(15–16 credits)
Editing concentration is where all the ele-	(10–16 credits)	CGD1313
ments involved in making a film are put	ANIM1750	Creative Imagery with Photoshop
together. Orson Welles once said, "Editing	Motion Graphics with After Effects [®] 3	THEA3351
isn't just one part of filmmaking, it is film-	CGD1313	Production and Crew I
ion t just one part of milliaking, it is illili-	Creative Imagery with Photoshop 3	Trouble and Orew Linning

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Credits	All Conce	ntrations	FILM4800	Independent Study
Any survey or auteur course 3	Concentration Electives		Any survey or	auteur course
Art course3	(14–16 credits)		Animation Concentration	
Communications course	•	be selected from a variety	ANIM2243	Advanced After Effects [®]
Theater course3		oncentration and cognate	ANIM2245	3D Character Modeling
Video Game Animation		is recommended that each	ANIM2285	3D Asset Creation for
Concentration		courses from the elective		Video Games
The video game animation program focus-		it into the following tracks:	ANIM2300	Texturing for 3D
es on the artistic side of video-game pro-	Cinematogra	phy, Film, Directing and	A N.H. 47005	Production
duction. Students study the formulation of	Editing Conc		ANIM3225	Vector Animation II 3D Particle Animation
the visual and interactive content, goals	ANIM1750	Motion Graphics with	ANIM3250	and Effects
and gameplay of video games. The course		After Effects [®]	ANIM3343	Advanced Character
work for this concentration emphasizes the	ANIM1850	3D Computer Modeling	711 (11/155 15	Animation
visual and design components while learn-	ANIM2500	3D Computer Animation	ANIM3345	Custom 3D Character
ing the software necessary to produce ani-	ANIM3330	3D Environment	11.11.133.13	Rigging and Animation
mation for video games by constructing		Modeling	ANIM4100	Design and Development
practical projects which are commonly	ANIM3341	Character Animation		of Video Games
produced in professional gaming compa-	CCD 221 F	Using CAT	ANIM4422	Internship in Animation I
nies. The faculty are working professionals	CGD2213	2D Design with the	ANIM4423	Internship in Animation
who bring wealth of real-world experience and knowledge to share with students.	CCD7707	Computer		II
_	CGD3303	Web Design	ANIM4800	Independent Study in
Required Theory and Production	CINE1350 CINE2404	History of Film Films of Alfred Hitchcock		Animation
(30 credits)	CINE2404	American Film Comedy	ANIM4900	Faculty/Student Research
ANIM1650	CINE3011	Film Noir: Mystery Films	ANIM4901	Faculty/Student Research
Game Design3	CHALSOTT	1940s–50s	ANIMH1202	History of Special Effects and Animation
ANIM2240 Low Poly 3D Modeling3	CINE3215	Introduction to World	1/1/1	
ANIM2270		Cinema	ANIM1500	Animation Concentration
ZBrush Digital Sculpting Human	CINE4801	Horror and Science Fiction	ANIM1750	Storyboarding Motion Graphics with
Anatomy3	00101010	Movies	AMMITTO	After Effects®
ANIM2500	COMM3012	Newswriting	ANIM1850	3D Computer Modeling
3D Computer Animation3	COMM3020	Art and Theory of Film	ANIM2243	Advanced After Effects®
ANIM3330	COMM3349 FILM3211	Introduction to Television Cinematography: Lighting	ANIM2245	3D Character Modeling
3D Environment Modeling 3	FILM3211	Postproduction II	ANIM2285	3D Asset Creation for
ANIM3341	FILM3214	Cinematography:		Video Games
Character Animation Using CAT3	1121113211	Camerawork	ANIM2300	Texturing for 3D
ANIM3350	FILM3363	Film Directing	4.3.H3.65050	Production
3D Game Creation Using Unreal3 ANIM3450	FILM3401	Advanced Cinematography	ANIM3250	3D Particle Animation and
3D Game Creation Using Unity 3	FILM3425	16mm Motion Picture	ANIM3331	Effects Logo and Product
ANIM4500		Photography	AMINISSSI	Animation
Thesis I	FILM3426	Producing Movies	ANIM3343	Advanced Character
ANIM4600	FILM3427	Distributing Movies and	711 (11/155 15	Animation
Thesis II3	EH M7470	Media Reality TV Production	ANIM3345	Custom 3D Character
	FILM3430 FILM3462	Advanced Production		Rigging and Animation
Major Electives (12–15 credits)	FILM4409	Music Scoring for Film-	ANIM4422	Internship in Animation I
4–5 ANIM1000- to 4000-level courses	I ILMTTO9	Video	ANIM4423	Internship in Animation II
	FILM4422	Internship in Film I	ANIMH1202	History of Special Effects
Cognate Requirements (6 credits)	FILM4423	Internship in Film II		and Animation
ART1201	FILM4461	Documentary Filmmaking		
Drawing I3	FILM4463	Sports Video Production	Animation	_
CGD1313	FILM4465	Client-driven Production I		he process of creating the
Creative Imagery with Photoshop3	FILM4466	Producing the Digital Film I	techniques. Th	ion through a variety of e 15-credit minor in anima-
	FILM4467	Producing the Digital Film II	various types o	tudents to understand the of digital 2D motion graphics
	FILM4470	Client-driven Production II		on image manipulation) and animation (which takes

Maxwell Becton College of Arts and Sciences Florham Campus

place in virtual worlds) and their uses. The	Credits	Credits
flexibility of this minor allows students to	CINE2015	CINE1501
target their area of interest whether it is	Italian Cinema	Cinematic Storytelling
commercial-style motion graphics, special	CINE2207	FILM1005
effects or 3D character animation.	East Asian Cinema3 CINE2515	Filmmaking I: Basic Production3 FILM2208
Required Courses (9 credits)	Spanish Film3	Filmmaking II: The Professional Crew3
Credits	CINE3015	FILM2210
ANIM1850	Japanese Culture Through Film3	Postproduction I
3D Computer Modeling3	CINE3215	FILM2250
ANIM2500	Introduction to World Cinema3	Screenwriting I
3D Computer Animation3		or
CGD1313 Creative Imagery with Photoshop3	Auteur Course (3 credits)	FILM3209
	Three credits on a director, such as:	Filmmaking III: Mastering the Art
Elective Courses (6 credits)	CINE2010	and Craft of Film Production
Select two of the following courses:	Films of Spike Lee3	Any survey or auteur course
ANIM1750	CINE2350	Screenwriting/Dramatic
Motion Graphics with After Effects [®] 3	The American Film Director3	Writing Minor
ANIM2243 Advanced After Effects [®] 3	CINE2404 Films of Alfred Hitchcock3	The screenwriting/dramatic writing minor
ANIM3250	CINE2406	is designed for students interested in study-
3D Particle Animation and Effects3	Clint Eastwood — The Total Artist3	ing the art and craft of writing for the
ANIM3331	CINE2408	screen and/or stage. The rationale for the
Logo and Product Animation3	The Films of Woody Allen3	proposed required courses for this minor is
ANIM3341	CINE3345	that knowledge of all forms of creative and
Character Animation Using CAT3	Films of Steven Spielberg3	dramatic writing contribute to each other
Oirean Charling Blines		and is necessary for a student to become a
Cinema Studies Minor	Cinema Studies Course (3 credits)	well-rounded writer no matter what the
The 15-credit cinema studies minor (previ-	Three credits of cinema survey such as:	format. The most talented, acclaimed and
ously called the film studies minor) is	CINE2205	successful screenwriters and playwrights often cross genres. For information con-
designed for students interested in studying movies as texts and as popular culture.	Blondes and Bombshells3	tact School of the Arts.
Traditionally, students of this discipline	CINE2405	that Belloof of the fitte.
study the history, production processes and	American Film Comedy3 CINE3335	Required Courses (9 credits)
the aesthetics of film as well as the theories	The American Film3	CREW2255
that analyze the ways in which film, cul-	CINE3010	Playwriting and Dramatic Structure 3
ture and audience interact to negotiate and	Film Noir: The Dark Side of	FILM2250
construct meaning. The two required	Cinema	Screenwriting I
courses provide the foundations for these	CINE3011	FILM2251 Screenwriting IL
four areas of investigation (history, produc-	Film Noir: Mystery Films 1940s-50s3	Screenwriting II
tion, aesthetics, theory). The electives offer an opportunity for a wider breadth of	HIST2100	Electives (6 credits)
experience or a more tightly focused study.	Medieval History in Film3	Select two of the following courses:
experience of a more tightly rocused study.	Film Duadwation Minor	COMM2005
Required Foundation Courses	Film Production Minor	Narrative Communication in
(6 credits)	The film production minor is for students	Media and Everyday Life3
CINE1501	<i>not</i> majoring in film and animation. The minor in film consists of six courses that	CREW2002
Cinematic Storytelling3	will prepare students to understand the	Creative Writing: Fiction
CINE3350	filmmaking process, analyze the strengths	FILM3303
Twentieth-century Cinema3	of different genres in the medium and cre-	Advanced Screenwriting I
	ate short films in a digital medium in one	FILM3304
Non-American Film Course	of the genres that they have studied.	Advanced Screenwriting II3 THEA3255
(3 credits)	The courses in this minor will cover the	Advanced Playwriting 3
Select from the following:	foundations of the three stages of produc-	
CINE2005	tion, 1) conception and development of an	
French Cinema	idea, 2) preproduction and production and	
or	3) postproduction. Students will choose to	
FREN2005	emphasize either their writing or produc-	

tion skills.

French Film.....3

Fine Arts

Maxwell Becton College of Arts and Sciences Florham Campus

3D Video Game Animation Minor

With the advancement of 3D-accelerated graphics, video games now go far beyond the sprite-based 2D graphics to display visuals that are more realistic and lifelike. In the 15-credit video game animation minor, students learn how to create optimized 3D graphics and animations that will respond well for the player, and then apply interactivity to those pieces using industry-standard game-creation platforms. Both first-person (rendered from the perspective of the player's character) and third-person (shown from a distance away from the player's character) games are explored.

Required Courses (9 credits)

Credits
ANIM2240
Low Poly 3D Modeling3
ANIM2500
3D Computer Animation3
CGD1313
Creative Imagery with Photoshop3
Elective Courses (6 credits)
Select two of the following courses:
ANIM1650
Game Design3
ANIM3350
3D Game Creation Using Unreal3
ANIM3450
3D Game Creation Using Unity3

Accelerated Combined Degree Program — B.A. in Film and Animation/M.A in Animation Program

For the accelerated combined B.A. in film and animation/M.A. in animation degree program, see page 216.

Accelerated Combined Degree Program — B.A. in Film and Animation/M.F.A in Animation Program

For the accelerated combined B.A. in film and animation/M.F.A. in animation degree program, see page 217.

Fine Arts Major (B.A.)

School of the Arts

Requirements for the Bachelor of Arts Degree

The School of the Arts offers a concentration in studio arts.

Students should see College requirements on pages 54–55 for details of the general education requirements.

Studio Arts Concentration (42–45 credits plus 6 cognate credits)

The studio arts concentration offers a program of study for students interested in careers in the fine arts and related fields. such as art education, art therapy and museum studies. This innovative approach to the studio arts matches courses across disciplines from the unique ART1250 Art of the Graphic Novel and ART1260 Ceramic Character Sculpture to the traditional ART3302 Life Drawing and ART3337 Life Sculpture. Students gain a strong foundation as they are individually encouraged to develop their own artistic voice in an interdisciplinary approach. Knowledge of traditional skills is emphasized along with contemporary art and ideas. Offerings include a wide range of classes at multiple levels in drawing, painting, ceramics, sculpture, photography, twoand three-dimensional design, color theory, printmaking, computer graphics and art history. Students are exposed to a range of professional practices which prepare them for diverse careers in the arts.

Major Requirements (42–45 credits plus 6 cognate credits)

Required Courses (33 credits/ 27 Studio Arts plus 6 cognate credits)

	Credits
ART1201	
Drawing I	3
ART1202	
Drawing IL	3
ART1225	
Painting I	3
ART1231	
2-Dimensional Design L	3
ART1235	
Sculpture I	3

Credits
ART1315
Ceramics I
ART2233 3-Dimensional Design
ART2236
Introduction to Color3
ART2316
Ceramics II
or
ART2336
Sculpture II
ART3237
Junior Portfolio Preparation I
ART4371 Senior Portfolio Preparation
Cognate Requirements — Art History
(6 credits)
ARTH1205
Art History: Prehistoric Through
Medieval3
ARTH1206
Art History: Renaissance Through Today3
Today
Major Electives (15–18 credits)
It is suggested that electives be taken in stu-
dio arts and/or art history. See adviser for
updated elective list. ART1157
Printmaking I
ART1169
Watercolor Painting I
ART1191
Photography I
ART1250
Art of the Graphic Novel
Ceramic Character Sculpture3
ART2060
Advanced Character Sculpture3
ART2061
Animal Sculpture
ART2062
Advanced Animal Sculpture3 ART2269
Watercolor Painting II
ART2316
Ceramics II
ART2319
Drawing III
ART2320
Drawing IV
ART2326
Painting II3 ART2336
Sculpture II3
ART3302

Life Drawing......3

Fine Arts

Maxwell Becton College of Arts and Sciences Florham Campus

Credits
ART3307
Ceramics III
ART3308
Ceramics IV3
ART3313
Ceramics V3
ART3314
Ceramics VI3
ART3327
Painting III3
ART3328
Painting IV3
ART3337
Life Sculpture3
ART4422
Internship in Art I3
ART4423
Internship in Art II3
ARTH1402
Museums of New York 3
ARTH2218
20th-century Art3
ARTH3217
Late 19th-century Art3
ARTH3219
Art in America3
ARTH3423
Women Artists3
ARTH3803
Modern Art in the New York
Museum3

Art History Minor

The minor in art history is designed for students interested in studying the history of visual art as an academic discipline. The required six courses have been selected to prepare students in the fundamentals of this discipline and to cover a range of historical periods — spanning prehistoric to contemporary — as well as a variety of media. One studio art class is included to enhance the students' appreciation of the creative process and to strengthen their ability to write accurately about art.

Required Courses (9 credits)

Art History Elective (3 credits)

Credits ARTH1402 Museums of New York ARTH2265 History of Photography ARTH3423 Women Artists or **ARTH3803** Modern Art in the New York Museum.....3 Studio Arts Elective (3 credits) ART1201 Drawing I or ART1225 Painting I or ART1231 2-Dimensional Design I ART1235 Sculpture I or ART1315 Ceramics I ART2233

Studio Arts Minor

The minor in studio arts consists of five courses (15 credits) that will prepare students in the fundamentals of two-dimensional and three-dimensional visual language, allowing them to express themselves in a range of methods and materials.

3-Dimensional Design.....3

These courses instill in students the conceptual foundations for understanding the creative process as well as the technical skills to implement their ideas. Student art exhibitions and faculty-led trips to museums and galleries enrich the learning experience.

Required Courses (12 credits)

Credits
ART1201
Drawing I 3
ART1225
Painting I3
ART1235
Sculpture I
and
ART1231
2-Dimensional Design I
or
ART2233
3-Dimensional Design3
ART1315
Ceramics I3
Elective (3 credits)
Select any one of the following:
ART1250
Art of the Graphic Novel3
ART1260
Ceramic Character Sculpture 3
ART2316
Ceramics II3
ART2326
Painting II3
ART3302
Life Drawing3
ART3337
Life Sculpture3

Government and Law • Graphic Design

Maxwell Becton College of Arts and Sciences Florham Campus

Government and Law Major (B.A.)

Department of Social Sciences and History

Requirements for the Bachelor of Arts Degree

Students majoring in government and law must complete 30–45 credits of course work in GOVT courses or approved substitutions. The following courses are required.

Credits

Crean	٠.
GOVT1000	
American Government and Politics	3
GOVT1100	
Global Politics	3
GOVT2400	
Political Ethics	3
GOVT2500	
Social Analysis	3
GOVT3801	
Current Events Seminar	3
GOVT4498	
Internship in Government and Law	3

Students may also take specially designed tracks in **global politics** and **legal studies**. Students shall select the remaining credits of course work from the 2000-, 3000- and 4000-level courses in government and law with the guidance of their faculty adviser.

Government and law is favored by students preparing for law school. It is not required but students interested in law may wish to major with the legal studies concentration and/or double major with criminology (pages 78–79) or pursue a criminology minor (page 79).

Government and law majors interested in a career in teaching may also be admitted to QUEST, the five-year accelerated preparation program for teaching certification.

Students should see College requirements on pages 54–55 for details of the general education requirements.

Global Politics Concentration

Students majoring in government and law with a concentration in global politics must complete 33–42 credits of course work in the area of government and law.

The goal of the global politics concentration track is to prepare students for careers in international corporations, nongovernmental organizations (NGOs) and

departments and agencies of the federal government which manage foreign affairs.

In addition to the courses required of all government and law majors, students in this track must take a minimum of 12 GOVT credits with a global politics emphasis at a 2000 or higher level. These courses will be designated GOVT2100–2199, GOVT3100–3199 and GOVT4100–4199.

Legal Studies Concentration

Students majoring in government and law with a concentration in legal studies must complete 33–42 credits of course work in the area of government and law.

The goal of the legal studies concentration is to prepare students for law school or to provide students with a basic overview of law and legal institutions to help them in a variety of careers in government service, public policy or the private sector.

In addition to the courses required of all government and law majors, students in this concentration shall take the following courses:

Credits

An additional government and law course cross-listed in another field (such as anthropology, criminology, sociology or literature). These courses will be designated GOVT2380–2399, GOVT3380–3399 and GOVT4380–4399.

Government and Law Minor

The government and law minor is for students *not* majoring in government and law. Students minoring in government and law must take five courses (15 credits) of government and law (GOVT).

Graphic Design Major (B.A.)

School of the Arts

The graphic design major provides individuals with the opportunity to learn the skills, principles and latest industry-standard tools needed to prepare for a wide variety of careers in the graphic design industry. The courses focus on the art of communication and problem solving through the use of type, space, visual imagery and computer software. This rigorous curriculum merges creative visual aesthetics with modern technology, which is necessary for mastering print, illustration or web media production.

Completion of this program will result in a Bachelor of Arts in graphic design with a concentration in illustration, print design or web design awarded by Fairleigh Dickinson University. Admission decisions are made in accordance with criteria, policies and procedures established by FDU. Students must maintain a grade point ratio of 2.00 in their courses at FDU subsequent to admission.

For more information regarding this major contact the graphic design adviser or the director of the graphic design program at the Florham Campus, Madison, New Jersey.

Requirements for the Bachelor of Arts Degree

Illustration Concentration

Illustration allows for a personal style, giving students a competitive edge in their design careers. The illustration concentration gives students the opportunity to develop their abilities in a wide range of marketing, advertising and editorial-art arenas, through the development of critical-thinking skills in visual communication. Students will learn a variety of digital and real-media techniques, with an emphasis on design principles and concept development.

Required Theory and Production Courses (33 credits)

	Credit
CGD1212	
Introduction to Graphic Design	3
CGD1313	
Creative Imagery with Photoshor) ⁷

Graphic Design

Maxwell Becton College of Arts and Sciences Florham Campus

Credits	Credits	Credits
CGD1314	CGD4900	Cicuits
Illustrator Graphics and Design3	Faculty/Student Research I	CGDH2020
CGD1552	CGD4901	History of Graphic Design3
The Digital Children's Book3	Faculty/Student Research II3	, 1
CGD2212	CGDH2020	Concentration Electives
Typography 1	History of Graphic Design3	(12 credits)
CGD2213	CGDH2216	Choose four from the following:
2D Design with the Computer3	Design for Social Responsibility 3	CGD1050
CGD2215	Note: Six credits in internship experience may	Creative Concept Drawing3
Editorial Design and Illustration3	be used to fulfill major elective requirements.	CGD1552
CGD2370	·	The Digital Children's Book3
Print Layout3	Cognate Requirements (9 credits)	CGD2170
CGD3351	ART3302	Branding Design3
Illustration Design3	Life Drawing	CGD2215
CGD4420	or	Editorial Illustration and Design3
Thesis 3	ART1225	CGD2243
CGD4500	Painting I	Children's Book Publishing3
Portfolio Preparation3	or	CGD3303
	ART1169	Web Design3
Concentration Electives	Watercolor Painting I3	CGD3315
(12 credits)	ART1201	WordPress3
Choose four from the following:	Drawing I 3	CGD3351
CGD1050	ART3350	Illustration Design3
Creative Concept Drawing3	Illustration3	CGD3352
CGD2170		Typography 2 3
Branding Design3	Print Design Concentration	CGD3358
CGD2243	The print design concentration teaches the	Project-based Web Design3
Children's Book Publishing3	creative process of producing visual com-	CGD3360
CGD3303	munications and presentations in order to	Freelance Practices
Web Design3	convey a specific message to a targeted	CGD3362
CGD3315	audience, specifically intended for printing.	Mobile App Design3
WordPress3	The most common types of print-design	CGD3373
CGD3352	products are publications, brochures, busi-	Email Blast Design and
Typography 2 3	ness cards, posters, product labels and	Implementation3
CGD3355	packaging.	CGD3374
Package Design3	Described Theory and Draduction	Online Ad Design and
CGD3358	Required Theory and Production	Implementation3
Project-based Web Design3	Courses (33 credits)	CGD3380
CGD3360	CGD1212	Social Media Marketing Design3
Freelance Practices3	Introduction to Graphic Design3	CGD3385
CGD3362	CGD1313	E-commerce Design3
Mobile App Design3	Creative Imagery with Photoshop3	CGD4422
CGD3363	CGD1314	Graphic Design Internship I3
Interactive Publishing3	Illustrator Graphics and Design3	CGD4423
CGD3373	CGD2212	Graphic Design Internship II3
Email Blast Design and	Typography 1	CGD4900
Implementation3		Faculty/Student Research I 3
CGD3374	2D Design with the Computer3 CGD2370	CGD4901
Online Ad Design and	Print Layout3	Faculty/Student Research II
Implementation3	CGD3355	CGDH2216
CGD3380	Package Design	Design for Social Responsibility 3
Social Media Marketing Design3	CGD3363	Note: Six credits in internship experience
CGD3385	Interactive Publishing3	may be used to fulfill major elective require-
E-commerce Design3	CGD4420	ments.
CGD4422	Thesis	
Graphic Design Internship I	CGD4500	
CGD4423	Portfolio Preparation3	
Graphic Design Internship II 3	1 of thomo i reputations	

Graphic Design

Maxwell Becton College of Arts and Sciences Florham Campus

Cognate Requirements (9 credits)	Credits	Graphic Design Minor
Credits	CGD2212	The 15-credit minor in graphic design will
ANIM1750	Typography 13	prepare students to understand, formulate
Motion Graphics with After Effects [®] 3	CGD2215	and create design solutions for a variety of
ANIM1850	Editorial Design and Illustration 3	visual communication problems in print,
3D Computer Modeling	CGD2243	the web and other two-dimensional design
or	Children's Book Publishing3	contexts.
ART1260	CGD2370	To achieve this goal, the courses in this
Ceramic Character Sculpture	Print Layout3	minor seek to instill in students the concep-
or	CGD3351	tual foundations for understanding design,
ART2233	Illustration Design	the desire to develop visual sensitivity and
3-Dimensional Design3	CGD3352 Typography 2 3	the requisite traditional and software skills
ART1201	CGD3355	necessary to confront real-world design sit-
Drawing I 3	Package Design3	uations competitively.
Web Design Concentration	CGD3360	Required Courses
The web design concentration encompass-	Freelance Practices	Credits
es a variety of skills in the design and pro-	CGD3362	CGD1313
duction of websites and other internet	Mobile App Design3	Creative Imagery with Photoshop3
products including interface design,	CGD3363	CGD1314
authoring and coding through the use of	Interactive Publishing3	
proprietary software. Students study how	CGD3373	Illustrator Graphics and Design3
websites work in order to produce the	Email Blast Design and	CGD2213
front-end user interface as well as develop-	Implementation3	2D Design with the Computer3
ing the functionality, navigation and inter-	CGD3374	CGD2370
activity of web-based products.	Online Ad Design and	Print Layout3
J I	Implementation3	CGD3303
Required Theory and Production	CGD3380	Web Design3
Courses (30 credits)	Social Media Marketing Design3	Note: Students who previously declared
CGD1212	CGD3385	an 18-credit minor must complete a Dec-
Introduction to Graphic Design3	E-commerce Design3	laration of Minor form (available in the
CGD1313	CGD4422	Records Office) in order to convert to the
Creative Imagery with Photoshop3	Graphic Design Internship I3	revised, 15-credit minor. Students who
CGD1314	CGD4423	convert to the revised minor MUST com-
Illustrator Graphics and Design3	Graphic Design Internship II 3	plete all requirements affiliated with the 15-credit minor. <i>No course substitutions</i>
CGD2213	CGD4900	will be permitted.
2D Design with the Computer3	Faculty/Student Research I	wiii de permittea.
CGD3303	CGD4901	Web Design Minor
Web Design3	Faculty/Student Research II3 CGDH2216	This 15-credit minor will allow students to
CGD3315	Design for Social Responsibility 3	explore the field of web design, learning
WordPress3	Note: Six credits in internship experience	the industry-standard tools and software
CGD3358	may be used to fulfill major elective require-	for development of personal and commer-
Project-based Web Design3	ments.	cial websites for the computer and mobile
CGD4420		devices. The focus is on design, composi-
Thesis	Cognate Requirements (9 credits)	tion, color therapy, typography, interaction
Portfolio Preparation3	ANIM1750	and responsive design.
CGDH2020	Motion Graphics with After Effects®	•
History of Graphic Design3	or	Required Courses (9 credits)
Thistory of Grapfile Design	ANIM1850	CGD1313
Concentration Electives	3D Computer Modeling3	Creative Imagery with Photoshop3
	ART1201	CGD3303
(12 credits) Chasse four from the following:	Drawing I 3	Web Design3
Choose four from the following: CGD1050	ART1260	CGD3315
	Ceramic Character Sculpture	WordPress3
Creative Concept Drawing3 CGD1552	or	
The Digital Children's Book	ART2233	
CGD2170	3-Dimensional Design3	

Branding Design......3

History

Maxwell Becton College of Arts and Sciences Florham Campus

Select two of the following courses:
Credits
ANIM1750
Motion Graphics with After Effects [®] 3
ANIM1850
3D Computer Modeling3
CGD3358
Project-based Web Design3
CGD3360
Freelance Practices3
CGD3361
Mobile Web Design 3
CGD3362
Mobile App Design3
CGD3373
Email Blast Design and
Implementation3
CGD3374
Online Ad Design and
Implementation3
CGD3380
Social Media Marketing Design 3
CGD3385
E-commerce Design3

Electives (6 credits)

History Major (B.A.)

Department of Social Sciences and History

Requirements for the Bachelor of Arts Degree

History is the study of the human past, which is an ongoing process of learning and discovery. The major is designed to provide students with a nuanced understanding of the past and to equip them with the tools and skills necessary to become effective critical thinkers, researchers and writers. History majors interested in a career in teaching may also be admitted to QUEST, the five-year accelerated preparation program for teaching certification.

Required Courses (15 credits)

	Credits
HIST1150	
World History I	3
HIST1151	
World History II	3
HIST3802	
Historical Methods	3

Choose one of the following courses

Choose one from a 4000-level seminar

(Prerequisite: HIST3802 Historical Methods)

Major Elective Courses (18–21 credits)

Note: Select three credits from each of the following areas. At least six credits of major electives must be at the 3000 level.

A. Africa and Asia

B. Europe

C. Latin America

D. United States

Note: Three credits in internship experience (HIST4498 Internship in History) may be used to fulfill major elective requirements.

Cognate Requirements (9 credits)

Credi	its
ECON1111	
Introduction to Economics	. 3
GEOG1102	
Geography and World Issues	. 3
GOVT1000	
American Government and	
Politics	3

Elementary Education Specialization

Major Elective Courses (18–21 credits)

Note: Select three credits from each of the following areas. At least six credits of major electives must be at the 3000 level.

A. Africa and Asia

B. Europe

C. Latin America

D. United States

Note: Three credits in internship experience (HIST4498 Internship in History) may be used to fulfill major elective requirements.

Cognate Requirement (3 credits)

GEOG1102

Geography and World Issues......3

Secondary Education Specialization

Major Elective Courses (18–21 credits)

Note: Select three credits from each of the following areas. At least six credits of major electives must be at the 3000 level.

A. Africa and Asia

B. Europe

C. Latin America

D. United States

Note: Three credits in internship experience (HIST4498 Internship in History) may be used to fulfill major elective requirements.

Cognate Requirement (3 credits)

Humanities

Maxwell Becton College of Arts and Sciences Florham Campus

Elementary Education and Special Education Specialization

Major Elective Courses (18–21 credits)

Note: Select three credits from each of the following areas. At least six credits of major electives must be at the 3000 level.

A. Africa and Asia

B. Europe

C. Latin America

D. United States

Note: Three credits in internship experience (HIST4498 Internship in History) may be used to fulfill major elective requirements.

Cognate Requirement (3 credits)

Credits

GEOG1102

Geography and World Issues...... 3

History Minor

The history minor is *not* for students majoring in history. The history minor consists of 15 credits in history (HIST) courses.

Humanities Major (B.A.)

Department of Literature, Language, Writing and Philosophy

Requirements for the Bachelor of Arts Degree

The humanities major is designed for students who desire to pursue a broadly based liberal arts education. It offers an integrated experience built around two seminars taken in the sophomore or junior year and the senior year.

Majors will complete a total of 36–39 credits. Two options are available.

Standard Program (for students not in the QUEST/Teacher Preparation Program)

A. Humanities Seminar — 6 credits
 HUMN2201 Humanities Seminar I —
 3 credits completed no later than the first semester of the junior year

HUMN3211 Humanities Seminar II — 3 credits completed in the senior year

B. Basic Humanities Electives — 24 credits (No more than one course at the 1000-level in any one discipline)

Literature — 6 credits (any 2000- or 3000- level ENGL, LITS or courses in literature in translation in modern languages)

History — 6 credits

Philosophy — 6 credits

Arts (music, art history, theater, film) — 6 credits in courses emphasizing historical or generic content; production and studio courses are not counted toward the humanities major.

C. Advanced Electives — 6–9 credits at 2000- or 3000-level in any combination of disciplines in Category B. An internship experience may be included in this group of courses.

Humanities B.A./QUEST/Teacher Preparation — Elementary Education

This option provides sufficient credits in English and history courses to permit QUEST students to qualify for middleschool certification as well. A. Humanities Seminar — 6 credits
 HUMN2201 Humanities Seminar I —
 3 credits completed no later than the first semester of the junior year

HUMN3211 Humanities Seminar II — 3 credits completed in the senior year

B. Humanities Electives

Literature — 9 credits (any 2000- to 4000-level courses in ENGL, LITS or literature in translation in modern languages)

History — 12 credits (at least 3 credits in world history and 3 credits in American history)

Philosophy — 3 credits

Arts — 3 credits (any course in art history, music, theater, film emphasizing historical or generic content; production and studio courses are not counted toward the major)

Additional electives in history, literature, philosophy, art or internship — 3–6 credits Note that ENGW1101 College Writing Workshop and ENGW1102 Research Writing Workshop count toward the credits in English, and GOVT1000 American Government and Politics is counted toward the credits in history required for certification. GOVT1000 American Government and Politics is taken to fulfill the College's general education requirements in social and behavioral sciences.

Humanities Minor

The humanities minor is for students *not* majoring in humanities. Students minoring in humanities must take 18 credits distributed as below:

Required Course (3 credits)

Credits

HUMN2201 Humanities Seminar I.....3

Introductory Humanities Electives (6 credits)

Introductory (1000- to 2000-level) courses in English, literature, film (non-production), history, philosophy, theater (non-studio), art (non-studio) and music (non-performance).

Advanced Humanities Electives (9 credits)

Any advanced courses (2000-, 3000-, 4000-level) in subjects above; no more than 6 credits in a single discipline.

Mathematics

Maxwell Becton College of Arts and Sciences Florham Campus

Mathematics Major (B.A.)

Department of Mathematics, Computer Science and Physics

Requirements for the Bachelor of Arts Degree

Students should see College requirements (pages 54–55) for details of the general education requirements. Majors must complete 40–41 credits of courses in mathematics and computer science and 8 credits in physics to be distributed as follows:

Required Courses (26 credits)

ricquired obdises (20 orealts)		
CSCI2215	Introduction to Computer	
	Science	
MATH1203,	Calculus I, II, III	
MATH2202	2,	
MATH220	3	
MATH2255	Discrete Structures	
MATH3220	Linear Algebra	
MATH3251	Introductory Analysis	
	or	
MATH3232	Multivariable Advanced	
	Calculus	
MATH3303	Probability	

Elective Courses (15 credits)

Five courses to be selected from the mathematics offerings (MATH designation) above the level of MATH2255 Discrete Structures or, with the permission of the department, from the graduate offerings in mathematics. With the permission of the department, up to 6 credits from the 2000- or higher-level offerings in computer science (CSCI designation) may be substituted for mathematics electives.

At least one of the following pairs of courses must be completed.

courses must be	e completed.
Pair I	
MATH3251	Introductory Analysis
MATH3335	Complex Variables
	or
Pair II	
MATH3309	Numerical Analysis
MATH3318	Differential Equations
	or
Pair III	
MATH3210	Number Theory
MATH3225	Abstract Algebra
	or
Pair IV	
MATH3318	Differential Equations

MAIHSS/I	Modeling and Simulation
	or
Pair V	
MATH2255	Discrete Structures
MATH3306	Combinatorics
	or
Pair VI	
MATH3220	Linear Algebra
MATH3331	Higher Geometry
	or
Pair VII	
MATH3303	Probability
MATH3305	Advanced Probability and
	Statistics

Modeling and Simulation

MATHITTI

Required Physics Courses (8 credits)

Majors must also complete PHYS2003, PHYS2013, PHYS2023 and PHYS2004, PHYS2014, PHYS2024 General Physics with Calculus I and II. PHYS2003, PHYS2013 will be applied to the science requirements of the general education requirements.

Students are urged to take CHEM1201 General Chemistry I and CHEM1203 General Chemistry Laboratory I in fulfillment of the additional science requirement of the general education requirements.

Actuarial Science Concentration

Students planning to major in mathematics with a concentration in actuarial science should complete all requirements for the B.A. degree in mathematics with the selection of the following courses as electives in the major:

Advanced Probability and
Statistics
Numerical Analysis
neral education require-
required to take:
Introduction to
Microeconomics
Introduction to
Macroeconomics
nate requirements include:
Introductory Financial
Accounting
Introduction to Computer
Programming
Introduction to Computer
Science
Principles of Financial
Analysis
Intermediate Financial

Analysis

The above requirements will assist students in preparing for actuarial exams 1 and 2, which are jointly administered by the Society of Actuaries and the Casualty Actuarial Society.

Independent-study courses are also available to further develop the fundamental mathematical/statistical concepts applicable to insurance problems. Specifically, the student may

- 1. Study the Theory of Interest and Life Contingencies to strengthen their preparation for exam 2 and/or
- 2. Study Actuarial Mathematics and Models to begin preparation for exam 3.

Computer Science Concentration

Students planning to major in mathematics with a concentration in computer science should choose CSCI1205 Introduction to Computer Programming in fulfillment of the quantitative analysis requirement of the general education requirements.

Required Courses (34 credits)

Credits
CSCI2215
Introduction to Computer Science3
CSCI2216
Introduction to Computer Science II3
CSCI2233
Data Structures and Algorithms3
CSCI2255
Discrete Structures3
MATH1203
Calculus I4
MATH2202
Calculus II4
MATH2203
Calculus III4
MATH3220
Linear Algebra3
MATH3251
Introductory Analysis
or
MATH3232
Multivariable Advanced Calculus3
MATH3303
Probability3

Elective Courses (15 credits)

Two courses (3 credits each) to be selected from the mathematics offerings (MATH designation) above the level of MATH2255 Discrete Structures or, with the permission of the department, from the graduate offerings in mathematics and three courses (3

Mathematics

Maxwell Becton College of Arts and Sciences Florham Campus

credits each) to be selected from the 3000or higher-level offerings in computer science (CSCI designation).

Required Physics Courses (8 credits)

Majors must also complete PHYS2003, PHYS2013, PHYS2023 and PHYS2004, PHYS2014, PHYS2024 General Physics with Calculus I and II. PHYS2003, PHYS2013 will be applied to the laboratory science requirement of the core curriculum.

Students are urged to take CHEM1201 General Chemistry I and CHEM1203 General Chemistry Laboratory I in fulfillment of the additional science requirement of the general education requirements.

Financial Mathematics Concentration

Students planning to major in mathematics with a concentration in financial mathematics should complete all requirements for the B.A. degree in mathematics with the selection of the following courses as electives in the major:

MATH3307 Mathematics of Finance MATH3309 Numerical Analysis MATH4007 Financial Mathematics II In addition to 12 credits of mathematics electives

To fulfill the general education requirements, students are required to take:

ECON2001	Introduction to
	Microeconomics
ECON2102	Introduction to
	Macroeconomics

Additional co	gnate requirements include:
ACCT2021	Introductory Financial
	Accounting
CSCI1205	Introduction to Computer
	Programming
CSCI2215	Introduction to Computer
	Science
FIN3250	Principles of Financial
	Analysis
FIN3310	Intermediate Financial
	Analysis
FIN4341	Financial Markets and
	Institutions
FIN4343	Securities and Investments
FIN4405	Analytical Methods in

Finance

Mathematical Statistics Minor

This 15-credit minor is for students in the Silberman College of Business and Maxwell Becton College of Arts and Sciences.

Required Courses (15 credits)

	Credits
MATH1203	
Calculus I	4
MATH2202	
Calculus II	4
MATH3300	
Statistics I	3
MATH3303	
Probability	3

Mathematics for Cybersecurity Minor

This 16-credit minor is for non-computer science majors.

Required Courses (16 credits)

CSCI1205

Introduction to Computer
Programming3
MATH1133
Applied Statistics3
MATH1203
Calculus I4
MATH2255
Discrete Structures3
MATH3355
Introduction to Cryptography3

Mathematics for the Business World Minor

Required Courses (15 credits)

MATH1203
Calculus I4
MATH2202
Calculus II4
MATH3303
Probability3
MATH3371
Modeling and Simulation
or
MATH3305
Advanced Probability and Statistics
or
MATH3307
Mathematics of Finance4

Mathematics Minor

The mathematics minor is for students *not* majoring in mathematics. Students minoring in mathematics must take 18 credits in mathematics distributed as follows:

Required Courses (11 credits)

C	redits
MATH1203	
Calculus I	4
MATH2202	
Calculus II	4
MATH3220	
Linear Algebra	3
_	

Elective Courses (7 credits)

Seven credits of additional course work in mathematics to be selected from the 2000-or higher-level offerings in mathematics (MATH designation).

Medical Imaging Sciences

Maxwell Becton College of Arts and Sciences Florham Campus

Medical Imaging Sciences Major (B.S.M.I.S.)

Department of Biological and Allied Health Sciences

Completion of this program will result in a Bachelor of Science in Medical Imaging Sciences with a concentration in diagnostic medical sonography or vascular technology awarded jointly by Fairleigh Dickinson University and the Rutgers School of Health Professions (Rutgers SHP). Students will complete 96 credits during their first three years at FDU. They then must apply for acceptance to the professional component at Rutgers SHP for their senior year. A joint degree is awarded upon completion of the professional component.

Admission to the clinical courses at Rutgers SHP requires a separate application, usually in the junior year. Consult the program adviser for application details and time lines. Admissions decisions for the clinical program are made in accordance with criteria, policies and procedures established by a joint Committee on Admissions and Academic Status for the degree program and cannot be guaranteed by FDU. Students admitted to the clinical program must maintain a minimum grade point ratio of 2.85 and a "C" or better in their prerequisite courses at FDU subsequent to admission.

For more information regarding these degrees, contact the allied health adviser, Florham Campus.

Also see "Allied Health Sciences Majors," page 64.

Requirements for the Bachelor of Science in Medical Imaging Sciences Degree

Biology Requirements	Credits
BIOL1110	
Medical and Pathological	
Terminology	2
BIOL1201, BIOL1203	
Biological Diversity (Lecture and	l
Laboratory)	4
BIOL1202, BIOL1204	
Introduction to Molecules, Cells	and
Genes (Lecture and Laborato	ry)4
BIOL1205, BIOL1206	
Anatomy and Physiology I, II*	8
BIOL2003, BIOL2004	
Cell Biology (Lecture and Labora	tory) 4
BIOL3009, BIOL3019	
Microbiology (Lecture and	
Laboratory)	4
BIOL3256, BIOL3257	
Genetics (Lecture and Laborator	y)4
Chemistry Requirements	
CHEM2261, CHEM2262	

Physics Requirements PHYS1001, PHYS1011;

PHYS1002, PHYS1012
General Physics I, II —
(Lecture and Laboratory)
4 credits each semester
or
PHYS2003, PHYS2013;
PHYS2004, PHYS2014
General Physics with Calculus I, II —
(Lecture and Laboratory)

4 credits each semester.....8

After completion of three years of study (a minimum of 96 credits) at FDU, the program is completed in 12–15 months at the Rutgers School of Health Professions. With the successful completion of the program at Rutgers SHP, the student will earn the Bachelor of Science in Medical Imaging Sciences.

Concentrations

There are two concentrations available within this degree:

Diagnostic Medical Sonography Concentration

Diagnostic medical sonographers provide patient services using diagnostic ultrasound under the supervision of a licensed physician. Sonographers look for subtle differences between healthy and pathological areas and decide what images to include in their report. The sonographer may provide this service in a variety of medical settings where the physician is responsible for the use and interpretation of ultrasound procedures. For requirements see "Requirements for the Bachelor of Science in Medical Imaging Sciences Degree." A grade of B- or better in BIOL1205, BIOL1206 Anatomy and Physiology I, II is required for this concentra-

Vascular Technology Concentration

Vascular technologists assist physicians in the diagnosis of disorders affecting circulation by use of ultrasound instrumentation. They noninvasively record vascular information such as blood pressure, oxygenation and circulation throughout the body. For requirements see "Requirements for the Bachelor of Science in Medical Imaging Sciences Degree." A grade of Bor better in BIOL1205, BIOL1206 Anatomy and Physiology I, II and CPR Certification are required for this concentration.

^{*}A grade of B- or better is required for Diagnostic Medical Sonography and Vascular Technology concentrations.

Philosophy

Maxwell Becton College of Arts and Sciences Florham Campus

Philos	ophy
Major	(B.A.)

Department of Literature, Language, Writing and Philosophy

Requirements for the Bachelor of Arts Degree

Philosophy as a major can be combined with any other major and/or minor in the liberal arts and social sciences. Students concentrating in philosophy must complete 30 credits (10 courses) in philosophy.

Required Courses (9 credits)

Elective Courses (21 Credits)

To be taken in the last year:

PHIL4401

To be chosen from the available courses. The student must consult with his/her adviser to make sure that the distribution is reasonable and representative across the subfields of philosophy.

Philosophy Seminar.....3

History of Philosophy, Metaphysics, Epistemology, Philosophy of Language, Philosophy of Mind, Philosophy of Science PHIL1106

1.1
PHIL1107
Dreams and the Imagination3
PHIL1112
Critical Thinking for College and Life 3
PHIL1114
Philosophy Through Movies3
PHIL1439
Nietzsche: Philosopher as Psychologist3
PHIL2102
Space and Time 3

PHIL2203
Contemporary Philosophy......3
PHIL2828

 Philosophy of Religion, Ethics, Social and Political Philosophy, Philosophy of Art

Credits PHIL1103 Ethics......3 PHIL1106 Ideas of Happiness......3 PHIL1119 Legal Issues from a Philosophic Perspective......3 PHIL1440 Biomedical Ethics......3 PHIL2008 Ethical Issues in the Movies......3 PHIL2201 Ancient Philosophy......3 PHIL2202 Modern Philosophy......3 Contemporary Philosophy......3 Philosophy of Religion......3 PHIL2208 Crime and Punishment......3 PHIL2210 What is Radical Politics?......3 PHIL2211 PHIL2432 Philosophy of Law...... 3 PHIL2777 Formal Logic.....3 **PHIL2828** Immortality and Reincarnation......3 PHIL3005 War and Philosophy......3 Students majoring in philosophy must complete the humanities area requirement of the general education requirements in areas other than philosophy. Students should see College require-

Philosophy Minor

The philosophy minor is for students *not* majoring in philosophy. The philosophy minor consists of 15 credits distributed as below:

ments on pages 54–55 for details of the general education requirements.

Required Courses (6 credits)

The remaining 9 credits should be selected from the following courses:

from the following courses:
Credits
PHIL1103
Ethics3
PHIL1106
Ideas of Happiness3
PHIL1107
Dreams and the Imagination3
PHIL1112
Critical Thinking for College and Life3
PHIL1114
Philosophy Through Movies3
PHIL1119
Legal Issues from a Philosophic
Perspective3
PHIL1120
Language and Communication 3
PHIL1440
Biomedical Ethics
PHIL1439
Nietzsche: Philosopher as
Psychologist3
PHIL2008
Ethical Issues in the Movies3
PHIL2102
Space and Time3
PHIL2201
Ancient Philosophy3
PHIL2202
Modern Philosophy3
PHIL2203
Contemporary Philosophy3
PHIL2205
Social and Political Philosophy3
PHIL2207
Philosophy of Religion3
PHIL2208
Crime and Punishment
PHIL2210
What is Radical Politics?3
PHIL2828
Immortality and Reincarnation3
PHIL3005
War and Philosophy3
PHIL3306
The Problem of Evil
Note: Students who previously
declared an 18-credit minor in this area
must complete a Declaration of Minor
form (available in the Records Office) in
order to convert to the revised, 15-credit
minor. Students who convert to the
revised minor MUST complete all require-
ments affiliated with the 15-credit minor.
No course substitutions will be permitted.
no course substitutions will be permitted.

Physical Education • Psychology

Maxwell Becton College of Arts and Sciences Florham Campus

Area II: Social Psychology

Area III: Clinical Psychology

Physical Education

Associate Dean's Office

The University encourages student participation in those physical activities that have social significance and allow for lifetime participation and interest. With this philosophy in mind, the emphasis in physical education courses is on those activities that have enduring value.

Psychology Major (B.A.)

Department of Psychology and Counseling

Requirements for the Bachelor of Arts Degree

The psychology major is designed for students to gain a broad background in the scientific study and philosophical understanding of people, along with the practical applications of the discipline. For those students who wish to pursue advanced degrees, the program provides the basic knowledge and tools necessary for graduate study.

Students majoring in psychology must complete a minimum of 32 credits of course work in psychology. Students should see College requirements on pages 54–55 for details of the general education requirements. The required courses and suggested sequence are:

Credits
PSYC1201
General Psychology (first or
second semester)3
PSYC2210
Psychological Statistics (third
semester)4
PSYC2211
Research Methods (fourth
semester)4
PSYC4291
History and Systems of Psychology3
In addition, students are required to
select one of the listed courses from each of
the following content areas of psychology.
Area I: Experimental Psychology
PSYC3030
Advanced Experimental Psychology3
PSYC3032
Physiological Psychology 3
PSYC3331
Theories of Learning3
PSYC3333
Sensation and Perception3
PSYC3334
Psychopharmacology3
PSYC3335
Cognitive Psychology3

The remaining credits may be electives selected, with the guidance of the students' faculty advisers, from the PSYC3000 and PSYC4000 series of psychology course offerings. It is suggested that those students who seek a professional career in psychology:

- 1. Avoid an overconcentration in any one area of psychology at the undergraduate level and have as broad an exposure as possible to the entire field.
- 2. Become involved in an independent study project or internship at some point during their fifth through eighth semester of study.

Students concentrating in psychology must complete the social-behavioral sciences requirement of the general education requirements in an area other than psychology.

Behavioral Neuroscience Concentration

The psychology department, in conjunction with the biological and allied health sciences and chemistry departments, offers a course of study leading to a B.A. in psychology with a concentration in behavioral neuroscience. This is designed for students wishing to earn a baccalaureate degree with an emphasis on the physiological basis of behavior. The curriculum of 120 credits is structured to maximize the benefits available through the interdisciplinary study of psychology, biology and chemistry. Undergraduate course requirements provide for the integrated understanding of the phar-

Sociology

Maxwell Becton College of Arts and Sciences Florham Campus

macology of drug action and brain function as they relate to the discipline of behavioral neuroscience. Major core requirements include two semesters of general chemistry and laboratories, one semester of organic chemistry and laboratory, one semester of cell biology and laboratory and one semester of lectures and laboratories on the anatomy and physiology of the human body. Psychology requirements include general psychology, two semesters of statistical and experimental methods, physiological psychology and psychopharmacology. Course study culminates with an advanced neuroscience methods seminar. Graduates would be prepared for graduate study in psychology, biology or neuroscience. Career openings exist in pharmaceutical research, pharmaceutical sales and marketing, hospital laboratory technology and animal care.

Major Requirements (46 credits) Required Major Courses

nequired iviajor courses	
(40 credits)	Credits
BIOL1202	
Introduction to Molecules, Cells	
and Genes	4
BIOL2003, BIOL2004	
Cell Biology (Lecture and	
Laboratory)	4
CHEM1202	
General Chemistry II	3
CHEM1204	
General Chemistry Laboratory II.	1
CHEM2261	
Organic Chemistry I	3
CHEM2263	
Organic Chemistry Laboratory I	1
PSYC1201	
General Psychology	3
PSYC2210	
Psychological Statistics	4
PSYC2211	
Research Methods	4
PSYC3032	_
Physiological Psychology	3
PSYC3334	_
Psychopharmacology	3
PSYC4130	
Behavioral Neuroscience Methods	34
PSYC4447	-
Medical Psychology	3

Major Elective Courses (6 credits)

Select from the following:

Credits
CHEM4430
Selected Topics in Chemistry1–3
CHEM4685
Pharmacology3
PSYC3333
Sensation and Perception3
PSYC3335
Cognitive Psychology3

Psychology Minor

The psychology minor is for students *not* majoring in psychology. The psychology minor (15 credits) consists of

Required Course (3 credits)

PSYC1201 General Psychology3
Electives (12 credits) PSYC courses (3 credits each)12

Note: Students who previously declared an 18-credit minor must complete a Declaration of Minor form (available in the Records Office) in order to convert to the revised, 15-credit minor. Students who convert to the revised minor MUST complete all requirements affiliated with the 15-credit minor. No course substitutions will be permitted.

Combined Accelerated B.A./M.A. Program

The department also offers an accelerated B.A./M.A. program. For more information, see page 223.

Sociology Major (B.A.)

Department of Social Sciences and History

Students majoring in sociology develop the knowledge and analytical skills needed to pursue entry-level positions and professional careers in law, business, criminal justice, education, government, health and medicine, human resources, public relations, social work and social services. In addition, the bachelor's degree is a first step for graduate work in sociology in preparation for a career as a professor or researcher. Sociology majors interested in a career in teaching may also be admitted to QUEST, the five-year accelerated preparation program for teaching certification.

Requirements for the Bachelor of Arts Degree

Students should see College requirements on pages 54–55 for details of the general education requirements. Students majoring in sociology must complete 30–45 credits of course work in the area of sociology. The following courses must be included in the 30 credits.

the 30 credits.	
SOCI1201	Introduction to Sociology
SOCI2203	Methods in Social
	Research
SOCI3021	Classical Sociological
	Theory
	or
SOCI3022	Contemporary Social
	Theory

The remaining 21–36 credits of course work shall be selected from SOCI2000, SOCI3000 and SOCI4000 courses with the guidance of the students' faculty advisers.

Students majoring in sociology may choose to take the criminology or prelaw minor, see page 79 and pages 62–63.

Anthropology Minor

Students minoring in anthropology must take ANTH1202 Cultural Anthropology (3 credits) plus four other courses (12 credits) in anthropology (ANTH) for a total of 15 credits.

Sociology Minor

The sociology minor is for students *not* majoring in sociology. Students minoring in sociology must take SOCI1201 Introduction to Sociology plus four other courses (12 credits) in sociology (SOCI) for a total of 15 credits.

Theater Arts

Maxwell Becton College of Arts and Sciences Florham Campus

Theater Arts Major (B.A.)

School of the Arts

The theater arts program at FDU allows a student interested in making a career in theater have a choice of one of six concentrations offered: acting, design and technical theater, directing, musical theater, playwriting and theater studies. Students will begin their studies at the Florham Campus in Madison, New Jersey; spend a semester in England at the University's Wroxton College*; then return to the Florham Campus to spend two intensive years that will include internships with a choice of casting directors, talent agents or local or Manhattan-based theater companies. Madison's proximity to New York City will also enable students to take advantage of the many opportunities available in the "theater capital of the world."

Requirements for the Bachelor of Arts Degree

Concentration choices should be made in consultation with an adviser. Students should see College requirements on pages 54–55 for details of the general education requirements.

Concentrations

Six areas of concentration are offered.

Acting Concentration

Foundation Courses (36 credits)

Credits
DAN2506
Movement for the Actor3
THEA1203
Basic Acting I3
THEA2005
Directing I3
THEA2204
Intermediate Acting3
THEA2209
Stagecraft I3
THEA3336
Acting for Film and Television3
THEA3358
Acting Shakespeare3
THEA4405
Senior Seminar: The Working Actor3

*To qualify for study at Wroxton College, students must maintain a 3.00 grade point ratio. If students do not qualify to study at Wroxton College, they may choose to minor in fine arts, with a theater concentration.

Credits THEA4420
Advanced Acting
THEAH1201
Development of the Theater:
Ancient to Elizabethan3
THEAH1202
Development of the Theater:
Restoration to Today3
THEAH2255
Playwriting and Dramatic Structure
Cognate Requirements (9 credits)
One of the following courses offered at Wroxton College, England
ENGL3421
Not of an Age But for All Time3
ENGL3422
"The Play's the Thing" 3
ENGL3424
"To Hold the Mirror Up to Nature"3 ENGL3456
20th-century Drama
Plus two of the following
SPCH1107
Fundamentals of Speech3
SPCH1204
Voice for the Actor3
SPCH2004
Speech and Diction3
Major Electives (9 credits)
Students should choose three from among
the following recommended courses. DAN3316
Stage Combat I1
THEA1005
Makeup for the Stage1
THEA2310
Stage Management
THEA2339
Musical Theater Workshop3 THEA3339
The London Theatre Experience3
THEAH3337
Night at the Theater3
Other courses are offered periodically.

Design and Technical Theater Concentration

Foundation Courses (30 credits)
Credits
THEA2005
Directing I3
THEA2209
Stagecraft I3
THEA2215
Set Design I3
THEA2310
Stage Management3
THEA3110
Stagecraft II3
THEA3112
Lighting for the Stage3
THEA3351
Production and Crew I1
THEA3352
Production and Crew II1
THEA3353
Production and Crew III1
THEAH1201
Development of the Theater:
Ancient to Elizabethan3
THEAH1202
Development of the Theater:
Restoration to Today3
Cognate Requirement (3 credits)
One of the following courses offered at
Wroxton College, England
ENGL3421
Not of an Age But for All Time3
ENGL3422
"The Play's the Thing" 3
ENGL3424
"To Hold the Mirror Up to Nature" 3
ENGL3456
20th-century Drama 3
Major Electives (15 credits)
Students should choose five from among the
Students should choose five from among the

following recommended courses.

THEA2216

Creative Imagery with Photoshop......3

Rendering and Drafting for the Theater......3

Theater Arts

Maxwell Becton College of Arts and Sciences Florham Campus

Directing Concentration
Foundation Courses (45 credits) Credits
LITS3103
Modern Drama: 1880–19303
THEA1203
Basic Acting I3
THEA2005
Directing I3
THEA2209
Stagecraft I3
THEA2215
Set Design I
THEA2310
Stage Management
THEA3006 Directing II1
THEA3112
Lighting for the Stage3
THEA3351
Production and Crew I
THEA3352
Production and Crew II1
THEA3353
Production and Crew III1
THEA3358
Acting Shakespeare3
THEA4800
Independent Study in Theater/ Directing
THEAH1201
Development of the Theater:
Ancient to Elizabethan3
THEAH1202
Development of the Theater:
Restoration to Today3
THEAH2255
Playwriting and Dramatic Structure3
THEAH3337
Night at the Theater3
Cognate Requirement (3 credits)
One of the following courses offered at
Wroxton College, England
ENGL3421 Not of an Age But for All Time3
ENGL3422
"The Play's the Thing"3
ENGL3424
"To Hold the Mirror Up to Nature"3
ENGL3456
20th-century Drama 3

Musical Theater Concentration Foundation Courses (33 credits)
Credits
DAN1320
Beginning Dance I
Or DANIZEOE
DAN2505 Dance II
MUSIC1015
Basic Vocal Technique3
SPCH1204
Voice for the Actor3
THEA1203
Basic Acting I3
THEA2204
Intermediate Acting3
THEA2209
Stagecraft I3
THEA2339
Musical Theater Workshop3
THEA2340
Advanced Musical Theater Workshop3
THEA4405
Senior Seminar: The Working Actor3
THEAH1201
Development of the Theater:
Ancient to Elizabethan
or THEAH1202
Development of the Theater:
Restoration to Today3
THEAH3344
History of the Musical3
Cognate Requirements (9 credits)
One of the following courses offered at
Wroxton College, England
ENGL3421
Not of an Age But for All Time3
ENGL3422
"The Play's the Thing" 3
ENGL3424
"To Hold the Mirror Up to Nature"3
ENGL3456
20th-century Drama 3
And choose two from the following
DAN2020
Basic Tap3
DAN2021
Ballet I3
MUSIH2221
Fundamentals of Music Theory3
SPCH1107
Fundamentals of Speech3

Credits	
DANIGEOG	S
DAN2506	
Movement for the Actor	5
DAN2600	
Theater Dance.	5
MUSIC1020	
Chorus1	Į
MUSIC1376	
Private Instruction in Voice 1	Į
MUSIC2015	
Vocal Technique II	5
SPCH2004	
Speech and Diction	5
THEA1005	
Makeup for the Stage1	L
THEA3336	
Acting for Film and Television)
THEA3339	7
The London Theatre Experience3)
THEA4420	z
Advanced Acting3 THEAH33337)
Night at the Theater	ζ
right at the Theater	,
Playwriting Concentration	
Foundation Courses (31 credits)	
CREW4001, CREW4002	
Senior Writing Project I, II	í
FILM2250	,
Screenwriting I	3
THEA1203	
	•
Basic Acting I	
Basic Acting I THEA2005	
THEA2005	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing L THEA3351 Production and Crew I1	3
THEA2005 Directing I THEA3351 Production and Crew I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
THEA2005 Directing I	3
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THEA2005 Directing I	33 33 33 33
THEA2005 Directing I	33 33 33 33
THEA2005 Directing I	33 33 33 33
THEA2005 Directing I	3 3 3 3 3
THEA2005 Directing I	3 3 3 3 3
PHEA2005 Directing I	33 33 33

Contemporary European Drama......3

Theater Arts

Maxwell Becton College of Arts and Sciences Florham Campus

Cognate Requirement (3 credits)		Credits	Credits
One of the following courses offered at	THEA3112		MUSIC1050
Wroxton College, England	Lighting for the Stage	3	Band 1
Credits	THEA3336		MUSIC1361
ENGL3421	Acting for Film and Television.	3	Private Instruction in Bass
Not of an Age But for All Time 3	THEA3339		MUSIC1375
ENGL3422	The London Theatre Experience	ce3	Private Instruction in Piano1
"The Play's the Thing"3			MUSIC1376
ENGL3424	Dance Studies Minor		Private Instruction in Voice1
"To Hold the Mirror Up to Nature" 3	The dance studies minor provide	s a com-	MUSIC1377
ENGL3456	prehensive overview of dance as		Private Instruction in Woodwinds I 1
20th-century Drama 3	form through technique, dance h		MUSIC1391
	dance appreciation and choreogra		Private Instruction in Guitar1
Theater Studies	practice. The minor develops a da		MUSIC1396
Concentration*	technique, exposes students to a		Private Instruction in Violin I 1
	the art form and provides study is		MUSIC2339
Foundation Courses (29 credits)	choreographic principles and pra		Musical Theater Workshop3
DAN2506			MUSIC4430
Movement for the Actor3	Required Courses (9 credits	5)	Private Instruction in Clarinet1–3
DAN3316	DAN1320		MUSIC4800
Stage Combat I1	Beginning Dance I		Independent Study in Music1–3
THEA1110	Or		MUSIH1021
Introduction to Acting	DAN2505 Dance II	7	Popular Music and Jazz 3
THEA2005	DAN2507	3	MUSIH2205
Directing I3 THEA2209	Choreography	7	Music for the Movies3
Stagecraft I3	DANH1322		MUSIH3344
THEA2310	Dance History and Appreciation	on 3	History of the Musical3
Stage Management3			
THEA3351	Elective Courses (6 credits)		Musical Theater Minor
Production and Crew I1	Select two of the following:		Required Courses (9 credits)
THEAH1201	DAN2020 Basic Tap	7	DAN1320
Development of the Theater:		3	Beginning Dance I
Ancient to Elizabethan3	DAN2021 Ballet I	7	or
THEAH1202		3	DAN2505
Development of the Theater:	DAN2022 Ballet II	7	Dance II3
Restoration to Today3	DAN2505		THEA1110
THEAH2255	Dance II (if not taken to fulfill		Introduction to Acting3
Playwriting and Dramatic Structure3	required course)		THEA2339
THEAH3337	DAN2506		Musical Theater Workshop3
Night at the Theater3	Movement for the Actor	3	Choose three other courses from
Major Electives (16 credits)	DAN2600		the following (9 credits)
Choose from the selection below.	Theater Dance	3	DAN2020
DAN1320	DAN3020		Basic Tap
Beginning Dance I	Advanced Tap	3	or
MUSIH2221			DAN2021
Fundamentals of Music Theory3	Music Minor		Ballet I3
THEA1005	Required Courses (9 credits	el	DAN2506
Makeup for the Stage3	MUSIH2211	9/	Movement for the Actor3
THEA2215	Survey of Music: Ancient to 18	200 7	THEA2340
Set Design I3	MUSIH2212	500	Advanced Musical Theater Workshop3
THEA2220		v 7	THEAH3344
Introduction to Acting II	Survey of Music: 1800 to Toda MUSIH2221	y3	History of the Musical
(for non-majors)3		7 7	or
THEA2339	Fundamentals of Music Theory		MUSIH2221
Musical Theater Workshop3	Electives (9 credits)		Fundamentals of Music Theory3
1	MUSIC1015		·
***************************************	Basic Vocal Technique	3	
*Students with a theater studies concentration are not required to spend a semester at Wroxton College, Eng-	MUSIC1020	,	
land.	Chorus	1	

Faculty & Staff

Maxwell Becton College of Arts and Sciences Florham Campus

Theater Arts Minor

The theater arts minor offers a foundation in the diverse aspects of contemporary theater. The minor focuses on the collaborative approach to theatrical production allowing students to study both the practical and academic aspects of theater. Students emerge with knowledge of acting, directing, stagecraft and dramaturgy/theater history. Minors are also encouraged to audition for or to crew departmental productions on the Florham Campus' mainstage proscenium theater in Dreyfuss Building and in the Barn Theater. Between these spaces, the School of the Arts mounts a full season of musicals, classics and contemporary productions each year, providing opportunities for hands-on application of classroom learning.

Required Courses (12 credits)

Credits
THEA1110
Directing I3
THEA2005
Directing I3
THEA2209
Stagecraft I3
THEAH1201
Development of the Theater:
Ancient to Elizabethan
or
THEAH1202
Development of the Theater:
Restoration to Today3
Select one of the following
(3 credits)
THEA2220
Introduction to Acting II

Playwriting and Dramatic Structure.......3 Note: Students who previously declared an 18-credit minor must complete a Declaration of Minor form (available in the Records Office) in order to convert to the revised, 15-credit minor. Students who convert to the revised minor MUST complete all requirements affiliated with the 15-credit minor. No course substitutions will be permitted.

Faculty & Staff

Administration

G. Weinman, Dean J. Lehr, Associate Dean for Academic Affairs

School of the Arts

H. Libov (Film), Chair; R. Barkley (Animation), R. Chace (Creative Writing), J. Cinco (Computer Graphics), D.G. Cochrane (Studio Arts), A. Cohen (Music), D. Daniel (Creative Writing), D. Grand (Creative Writing), E. Hoffman (Film), S. Hollis (Theater), D. Landau (Film), S. Lents (Theater), C. Loewus (Theater), J. Moonelis (Studio Arts), J. O'Neil (Web Design), J. Shaw (Animation), R. Steinke (Creative Writing)

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J. Salierno, Chair; J. Agugliaro, M. El-Sherbeini, T. Loreng, P. Melloy, E. Myers-Arnold, B. Narayanan, C. O'Connor-Fitzpatrick, B. Olechnowski, H. Parzer, S. Reynolds

Department of Chemistry and Biochemistry

A. Teslja, Chair; G. Anderle, S. Bashkova, J. Bogart, M. Elshaer, E. Salaski

Department of Communication Studies

G. Radford, Chair; C. Caldiero, K. Dunsmore, C. Foster, K. Haspel, S. Latson, J. Lehr

Department of Literature, Language, Writing and Philosophy

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Department of Social Sciences and History

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School of Pharmacy and Health Sciences

M. Avaltroni, Dean; A. Carbone, H. Cho, A. Dushenkov, S. Falbaum, A. Gallipani, Y. Guo, J. Han, O. Iwuchukwu, P. Jungsuwadee, N. Kallhoff, J. Kalabalik, D. Kim, C. Lam, M. Leibfried, A.E. Ozdener, J. Palummo, K. Patel, S. Patel, A. Pennoyer, R. Quinn, A. Rivkin, L. Rozaklis, N. Ryba, M. Slugocki, J. Sullivan, G. Vaidean, S. Vansal, L. Westrich, A. Zelinski

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