

LIU Brooklyn

2013-2014

Undergraduate Bulletin



LIU Brooklyn

2013 - 2014 Undergraduate Bulletin

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Notice to Students: The information in this publication is accurate as of September 1, 2013. However, circumstances may require that a given course be withdrawn or alternate offerings be made. Therefore, LIU reserves the right to amend the courses described herein and cannot guarantee enrollment into any specific course section. All applicants are reminded that the University is subject to policies promulgated by its Board of Trustees, as well as New York State and federal regulation. The University therefore reserves the right to effect changes in the curriculum, administration, tuition and fees, academic schedule, program offerings and other phases of school activity, at any time, without prior notice.

The University assumes no liability for interruption of classes or other instructional activities due to fire, flood, strike, war or other force majeure. The University expects each student to be knowledgeable about the information presented in this bulletin and other official publications pertaining to his/her course of study and campus life. For additional information or specific degree requirements, prospective students should call the campus Admissions Office. Registered students should speak with their advisors.

TABLE OF CONTENTS

LIU	4	Institutional Advancement & Student Affairs	36
CAMPUSES OF LIU	5	After School Program - FUN (Family UNiversity)	36
Residential Campuses	5	Student Life & Leadership Development	36
Regional Campuses	6	SPECIAL PROGRAMS	38
GENERAL INFORMATION	7	University Honors Program	38
About LIU Brooklyn	7	Outreach Programs	38
DIRECTORY	8	Arthur O. Eve Higher Education Opportunity Program (HEOP)	39
ACADEMIC CALENDAR	9	Student Support Services	39
ADMISSION	11	CSTEP	40
GRADUATION REQUIREMENTS	16	HONOR SOCIETIES	41
ACADEMIC REGULATIONS	18	Departmental Honor Societies	41
INTEGRATED STUDENT FINANCIAL SERVICES	22	AWARDS	43
Tuition & Fees	22	Department Awards	43
Student Financial Aid	26	Special Awards	43
THE LIBRARY	29	Service Awards	45
STUDENT DEVELOPMENT & RETENTION	30	Athletic Awards	45
LEARNING RESOURCES	32	RICHARD L. CONOLLY COLLEGE OF LIBERAL ARTS AND SCIENCES	46
Academic Reinforcement Center	32	Fields of Study	47
Mathematics Center	32	HUMANITIES (DIVISION I)	48
Modern Language Center	32	Communication Sciences and Disorders	49
Multimedia Language Laboratory	32	English	55
Testing Center	32	Foreign Languages and Literature	61
Writing Center	32	Humanities	64
FACILITIES	33	Philosophy	67
Steinberg Wellness Center	33	Africana Studies Program	71
Lupus Cooperative of New York	33	SCIENCE (DIVISION II)	72
Residence Life and Housing	33	Biology	73
Kumble Theatre	33	Chemistry and Biochemistry	80
Arnold & Marie Schwartz Gym	33	Mathematics	84
SERVICES	34	Physics	87
Information Technology	34	SOCIAL SCIENCE (DIVISION III)	88
My LIU	34	Economics	89
Audio Visual Services	34	History	92
University Health & Medical Services	34	Political Science	95
Psychological Services Center	35	Psychology	99
Veteran Services	35	Sociology/Anthropology	102
Alumni Association	35	Social Science	109
STUDENT LIFE	36	Latin American and Caribbean Studies	111
Cultural Programs and Exhibitions	36		
International Students' Services	36		

COMMUNICATIONS, VISUAL AND PERFORMING ARTS (DIVISION IV)	112
Journalism and Communication Studies	113
Media Arts	119
Performing Arts	128
Visual Arts	145
HONORS PROGRAM	151
SCHOOL OF BUSINESS, PUBLIC ADMINISTRATION AND INFORMATION SCIENCES	156
Finance, Law, Accounting and Taxation	157
Technology, Innovation and Computer Science	162
Managerial Sciences	173
SCHOOL OF EDUCATION	179
Teaching, Learning and Leadership	182
SCHOOL OF HEALTH PROFESSIONS	197
Athletic Training, Health and Exercise Science	198
Diagnostic Medical Sonography	209
Occupational Therapy	214
Physical Therapy	224
Physician Assistant Studies	224
Public Health	225
Respiratory Care	226
Social Work	230
SCHOOL OF NURSING	234
LIU PHARMACY	244
LIU GLOBAL	247
SCHOOL OF CONTINUING STUDIES	249
BLENDED AND ONLINE LEARNING	253
APPROVED PROGRAMS	254
LIU BROOKLYN FACULTY	257
LIU BROOKLYN ADMINISTRATION	268
LIU TRUSTEES, OFFICERS AND ADMINISTRATION	270

LIU

Long Island University (LIU) is one of America's largest and most comprehensive private universities with locations and programs spanning the New York metropolitan area, overseas and online. World-class faculty, small classes and résumé-building hands-on learning experiences are the hallmarks of an LIU education.

The University offers nearly 500 academic programs and educates over 24,000 students in degree-credit and continuing education programs in Brooklyn, Brookville (LIU Post), Brentwood, Riverhead, and Rockland and Westchester (LIU Hudson). Its international unit, LIU Global, provides a wide range of study abroad options at overseas centers in China and Costa Rica, and through programs in Australia, South Africa, Taiwan, Thailand, Turkey and, beginning in 2015, Europe.

The accomplishments of more than 191,000 living alumni are a testament to the success of LIU's mission of "Access and Excellence." The institution also provides enrichment for students and neighboring communities, including the excitement of NCAA Division I and II athletics, internationally acclaimed arts programming at Tilles Center for the Performing Arts and the nationally renowned George Polk Awards in journalism.

Accreditation and Program Registration

LIU is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, 3624 Market Street, Philadelphia, PA 19104, (215) 662-5606. The Commission on Higher Education is an institutional accrediting agency recognized by the U.S. Secretary of Education and the Council for Higher Education Accreditation. The degree and certificate programs also are approved and registered by the New York State Department of Education.

CAMPUSES OF LIU

The Residential Campuses

LIU Brooklyn

LIU Brooklyn is distinguished by dynamic curricula reflecting the great urban community it serves. Distinctive programs encompass the arts and media, the natural sciences, business, social policy, urban education, the health professions, pharmacy and the health sciences, all on a pluralistic campus that draws insight and strength from differences.

Founded in 1926, LIU Brooklyn is the original unit of Long Island University. Its beautifully landscaped 11-acre campus is a self-contained urban oasis in the heart of downtown Brooklyn – steps away from the new Barclays Center, top arts venues like BAM and the hip restaurants and cafes of Fort Greene, and just a 10-minute subway ride from the professional and cultural opportunities of Manhattan.

LIU Brooklyn offers nearly 200 associate, undergraduate, graduate, doctoral and certificate programs, including Ph.D. programs in clinical psychology and pharmaceuticals, the D.P.T. in physical therapy and the Pharm.D. in pharmacy. Serving a diverse student body, its academic units include the Richard L. Conolly College of Liberal Arts and Sciences; the School of Business, Public Administration and Information Sciences; the School of Education; the School of Nursing; the School of Health Professions; and LIU Pharmacy (the Arnold & Marie Schwartz College of Pharmacy and Health Sciences). The campus is known for its nationally recognized Honors Program, which was the first of its kind in the country and emphasizes a holistic, liberal arts background.

LIU Brooklyn has a deeply rooted tradition of athletic excellence. The basketball teams of the 1930s captured two national championships, and the campus' success in sports has continued over the decades with numerous Northeast Conference championships. This year, the men's basketball team made history as the first team to win three NEC championships in a row and made their third consecutive trip to March Madness. The campus currently fields 16 NCAA Division I teams.

The \$45-million Steinberg Wellness Center, which features an NCAA-regulation swimming pool, a 2,500-seat arena, state-of-the-art workout facilities and a rooftop track, serves the campus and the surrounding community, and the Cyber Café provides a high-tech hot spot for students and faculty members to meet and eat.

LIU Post

LIU Post is distinguished by programs of excellence and small classes in five schools of study: College of Education, Information and Technology; College of Liberal Arts and Sciences; College of Management; School of Health Professions and Nursing; and School of Visual and Performing Arts. The wooded suburban campus, only 20 miles from New York City, is home to the renowned Tilles Center for the Performing Arts, Steinberg Museum of Art and WCWP-FM. LIU Post offers the Ph.D. in information studies, the Psy.D. in clinical psychology and the Ed.D. in interdisciplinary educational studies.

The campus was established on the former estate of cereal heiress Marjorie Merriweather Post in 1954 to accommodate the growing educational needs of Nassau County following World War II. Formerly known as the C.W. Post Campus of Long Island University, LIU Post offers its full-time, part-time and non-credit students a comprehensive range of nearly 200 associate, undergraduate, graduate and doctoral degree programs and certificates. In addition, the campus offers college credit courses to high school students in area schools.

LIU Post is recognized as one of the nation's most beautiful academic settings. Modern buildings range from an acclaimed student union to an elegant library. Beautiful red-brick academic buildings, including Humanities Hall, Pell Hall/Life Science and the Kahn Discovery Center, are outfitted with wireless classrooms, major-specific laboratories and computer centers. The campus's award-winning cooperative education program is nationally renowned for its extensive career counseling and job placement services.

Fifteen NCAA men's and women's sports teams take advantage of LIU Post's 70 acres of playing fields. Clubs, fraternities and sororities provide many other outlets for student activities. The campus's \$18-million Pratt Recreation Center is a state-of-the-art health and fitness facility featuring an eight-lane swimming pool, three full-size basketball courts, racquetball courts and an elevated jogging track.

Tilles Center for the Performing Arts, Long Island's premier concert facility, brings Carnegie Hall and Lincoln Center to the campus with world-class jazz, rock, folk music, dance, mime, orchestral and chamber music performances.

The Regional Campuses

LIU Brentwood

Since 1959, LIU Brentwood has served the diverse communities of western Suffolk County with premier undergraduate and graduate programs. Conveniently located on the Michael J. Grant Campus of Suffolk Community College, it offers access to a full range of amenities, including state-of-the-art library and computer resources, as well as personalized academic advisement and support services. Since LIU Brentwood is primarily a teaching institution, classroom instruction is its top priority. While most faculty members are involved in research, scholarly writing or creative activities appropriate to their discipline, all are measured against the highest standards of teaching excellence. Some programs require completing coursework at another LIU campus.

LIU Hudson

For more than a quarter of a century, Long Island University has been offering graduate degree and certificate programs in Rockland and Westchester Counties. LIU Hudson at Rockland is conveniently located near the Palisades Parkway in Orangeburg, N.Y., just two miles from the New Jersey border. LIU Hudson at Westchester is located in a state-of-the-art facility on the grounds of Purchase College, which features high-tech classrooms designed for adult learners. Both centers boast technologically advanced library resources and mainframe-networked computer labs, and offer small classes with personalized instruction delivered by full-time and adjunct faculty members who bring a wealth of practical experience and an understanding of career trends to the classroom.

Students enroll as degree candidates or as non-degree students who wish to pursue graduate courses for personal enrichment or professional advancement. Most classes in Rockland and Westchester are held in the late afternoons, in the evenings and on weekends to meet the scheduling needs of working adults. Program offerings include: business (M.B.A. and/or advanced certificates in health care sector management and cyber security for business professionals); health or public administration (M.P.A. and advanced certificate in gerontology); educational leadership (M.S.Ed. and/or advanced certificate); education (M.S.Ed. and/or advanced certificate) in the areas of childhood – grades 1-6, early childhood, middle childhood and adolescence – grades 5-12, special education, autism, literacy, bilingual, TESOL, bilingual extension, gifted extension, writing and reading, school counseling and school psychology; marriage and family therapy (M.S.); mental health counseling (M.S.); and pharmaceuticals (M.S.) with specializations in industrial pharmacy and cosmetic science.

LIU Riverhead

LIU Riverhead offers high-quality undergraduate and graduate courses and programs to residents of Long Island's East End. Conveniently located on Suffolk County Community College's Eastern Campus, just 10 minutes from exit 70 on the Long Island Expressway, it provides working adults and recent baccalaureate graduates with the opportunity to pursue a private education in conveniently scheduled day and evening programs.

Offerings include the upper division B.S. in childhood education (grades 1-6), the upper division B.A. in communication studies - new media, the M.S. in childhood education (grades 1 – 6), the M.S. in literacy education (birth – grade 6), the M.S. in teaching students with disabilities (grades 1 – 6 or generalist grades 7 – 12) and an advanced certificate in applied behavior analysis. In addition, an M.S. in homeland security management and advanced certificates in homeland security management and cyber security policy are offered fully online. The Homeland Security Management Institute features comprehensive curricula designed by professionals for professionals. Faculty members and guest lecturers include some of the top names in law enforcement, counterterrorism and government.

GENERAL INFORMATION

About LIU Brooklyn

Statement of Mission

Expressed in its still-relevant motto *Urbi et Orbi*, the mission of LIU since 1926 has been to open the doors of the city and the world to men and women of all ethnic and socioeconomic backgrounds who wish to achieve the satisfaction of the educated life and to serve the public good. Its mission is to awaken, enlighten and expand the minds of its students.

Generation after generation, the students who have enrolled at LIU Brooklyn have come from varied, primarily urban backgrounds. Like their predecessors, many of today's students are new to America and new to the English language or are the first in their families to seek a university education. At LIU Brooklyn, all students find an academic community where cultural, ethnic, religious, racial, sexual, and individual differences are respected and where commonalities are affirmed. This requires the Campus to be open and welcoming, even as it maintains respect for intellectual, cultural and academic traditions.

Nationally recruited, the faculty has a strong commitment to teaching, to personal advisement of students, to the fullest range of scholarship, and to faculty development and service.

LIU Brooklyn recognizes both the faculty's training and experience and the character of its diverse student body as two of its greatest strengths and challenges. No matter what their background or generation, students come to LIU Brooklyn to build the educational and intellectual foundations for successful personal lives and careers. The Campus faculty and administration believe that a liberal education, along with careful preparation for a fulfilling career, is the best way to achieve this end.

To carry out its mission, LIU Brooklyn offers comprehensive undergraduate curricula, supported by advanced courses for specialized knowledge and graduate programs in those areas in which it has developed strength or has a unique contribution to make. In addition, the Campus has designed programs to permit students to acquire essential literacies, intellectual curiosity, analytic and reasoning skills, and effective communication skills. In this way, the Campus serves as a conservator of knowledge, a source and promulgator of new knowledge, and a resource for the community it serves.

Undergraduate and Graduate Offerings

Richard L. Conolly College offers liberal arts and sciences programs leading to the degrees of Associate in Arts, Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Master of Arts, Master of Fine Arts, Master of Science, and Doctor of Philosophy (in Clinical Psychology). It also offers a B.S./M.S. in Communication Sciences and Disorders/ Speech-Language Pathology, and a United Nations Graduate Certificate Program.

The School of Business, Public Administration and Information Sciences offers, on the undergraduate level, the degrees of Associate in Applied Science in Business Administration; Bachelor of Science in Accounting, Computer Science, Technology Management, Entrepreneurship, Finance, Management, and Marketing. On the graduate level, the School offers the Bachelor of Science/Master of Science in Accounting; Master of Business Administration (M.B.A.); Master of Business Administration in Accounting (M.B.A. Accounting); Master of Science in Accounting, Computer Science, Human Resource Management, Taxation, Master of Public Administration (M.P.A.) and M.P.A. in Health Administration. It also offers Advanced Certificates in Human Resource Management, Gerontology Administration and Not-for-Profit Management.

The School of Education offers, on the undergraduate level, the Bachelor of Science and the Bachelor of Fine Arts degrees in various disciplines in urban education. On the graduate level, the school offers the Master of Science in Education degree in the areas of Childhood Urban Education, Early Childhood Urban Education, Adolescence Urban Education, Teaching Urban Children with Disabilities, Teaching Urban Adolescents with Disabilities, Teaching English to Speakers of Other Languages (TESOL), School Counseling, Bilingual School Counseling and School Psychologist; the Master of Science degree in Mental Health Counseling and Marriage and Family Therapy; and Advanced Certificates in Bilingual Education, Educational Leadership, Early Childhood Urban Education, School Counseling, Bilingual School Counseling, Mental Health Counseling, and Marriage and Family Therapy.

The School of Health Professions offers the Bachelor of Science degrees in Health Science, Diagnostic Medical Sonography, Respiratory Care and Sports Sciences, and the Bachelor of Arts degree in Social Work. It also offers combined B.S./M.S. degrees in Athletic Training and in Occupational Therapy and the B.S./M.P.H. in Health Science / Master of Public Health. It offers the M.S. degrees in Exercise Science, and in Physician Assistant Studies as well as the Master of Social Work and the Master of Public Health. The Division of Physical Therapy offers a Doctor

of Physical Therapy (D.P.T.) program that is a three-year post-baccalaureate graduate degree. An accelerated 3+3 B.S./D.P.T. in Health Science / Doctor of Physical Therapy is also offered.

The School of Nursing offers the Bachelor of Science with a major in Nursing for generic, R.N.-B.S. and 2nd degree students, the Master of Science in Adult Nurse Practitioner and Family Nurse Practitioner, Health Care Management, and Nurse Educator. The following Advanced Certificates are offered: Adult Nurse Practitioner, Family Nurse Practitioner, and Education for Nurses. The School of Nursing offers an accelerated R.N.-B.S./M.S. Adult Nurse Practitioner dual degree program.

The LIU Pharmacy – Arnold & Marie Schwartz College of Pharmacy and Health Sciences offers an entry-level, six-year Doctor of Pharmacy (Pharm.D.) degree and the Master of Science degree in Pharmaceutics, Drug Regulatory Affairs and Pharmacology/Toxicology. It also offers the Doctor of Philosophy in Pharmaceutics (Ph.D.) degree.

LIU Global is designed for students who desire a hands-on learning approach in a variety of international locations. The college offers a Bachelor of Arts in Global Studies.

DIRECTORY

Department Name	Phone	Office Hours	Email/Website
Admissions	718-488-1011	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 9 a.m.-6 p.m.	admissions@brooklyn.liu.edu www.liu.edu/brooklyn/admissions
Richard L. Conolly College	718-488-1003	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 9 a.m.-6:30 p.m.	www.liu.edu/brooklyn/conolly
School of Business, Public Administration and Information Sciences	718-488-1130	(M-Th) 9 a.m.-7 p.m. (F) 9 a.m.-5 p.m.	business@brooklyn.liu.edu www.liu.edu/brooklyn/sbpais
School of Education	718-488-1055	(M-Th) 9 a.m.-6:30 p.m. (F) 9 a.m.-5 p.m. Summer (M-Th) 9:00 a.m-6 p.m. (F) 9 a.m.-5p.m.	www.liu.edu/brooklyn/education
School of Health Professions	718-780-6578	(M-F) 9 a.m.-5 p.m.	www.liu.edu/brooklyn/health
School of Nursing	718-488-1059	(M-F) 9 a.m.-5 p.m. Summer (M-Th) 9 a.m.-6 p.m.	www.liu.edu/brooklyn/nursing
LIU Pharmacy	718-488-1004	(M-F) 9 a.m.-5 p.m.	www.liu.edu/brooklyn/pharmacy
LIU Global	718-780-4312	(M-F) 9 a.m.-5 p.m.	globalcollege@liu.edu www.liu.edu/brooklyn/global
School of Continuing Studies	718-488-1364	(M-Th) 9 a.m.-6:30 p.m. (F) 9 a.m.-5 p.m.	scsinfo@brooklyn.liu.edu www.liu.edu/brooklyn/scs
Office of Institutional Advancement and Student Affairs	718-488-1602	(M-F) 9 a.m.-5 p.m.	www.liu.edu/brooklyn/studentactivities
Integrated Student Financial Services	718-488-1037	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 9 a.m.-6:30 p.m.	isfs@brooklyn.liu.edu www.liu.edu/brooklyn/financial-services
International Students	718-488-1216	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 9 a.m.-6:30 p.m.	www.liu.edu/brooklyn/international-students
Library	718-780-4513	(M,W,Th) 8 a.m. – 10 p.m. (Tu) 9 a.m. – 10 p.m. (F) 9 a.m. – 5 p.m. (Sat.) 9 a.m. – 6 p.m. (Sun.) 11 a.m. – 5 p.m. Summer (M-Th) 9 a.m. – 8 p.m. (Sat.) 9 a.m. – 6 p.m.	www.liu.edu/brooklyn/library
Provost	718-488-1001	(M-F) 9 a.m.-5 p.m.	www.liu.edu/brooklyn/provost
Registrar	718-488-1013	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 10:30 a.m.-6:30 p.m. Summer (M,Th) 9 a.m.-5 p.m. (Tu,W) 10:30 a.m.-6:30p.m. (F) 9 a.m.-4 p.m.	www.liu.edu/brooklyn/registrar
Residence Life and Housing	718-488-1046	(M-Th) 9 a.m.-7 p.m. (F) 9 a.m.-5 p.m.	www.liu.edu/brooklyn/reslife
Office of Student Development and Retention	718-488-1042	(M,Th,F) 9 a.m-5 p.m. (Tu,W) 9 a.m-6:30 p.m.	www.liu.edu/brooklyn/osdr
Student Leadership and Development	718-488-1216	(M,Th,F) 9 a.m.-5 p.m. (Tu,W) 9:00 a.m.-6:30 p.m.	www.liu.edu/brooklyn/slld

ACADEMIC CALENDAR 2013-2014

Fall 2013

August 19 - August 30	In-Person Registration
September 2	Labor Day-holiday
September 3	Convocation Day
September 4	Weekday classes begin
September 4-10	Late registration and program changes
September 7-8	Semester classes meeting Saturday-Sunday begin
September 7-8	First weekend session classes begin
September 10	Late registration ends
September 20	Awarding of September degrees
September 30	Deferred final examinations
October 4	Last day to apply for January degree
October 4	Last day to apply for comprehensive examination
October 14-25	Midterm examinations-classes in session
October 19-20	First weekend session final examinations
October 26-27	Second weekend session classes begin
October 30	Last day to withdraw from undergraduate courses
November 5	Election Day-classes in session
November 27	Wednesday follows a Friday schedule
November 28	Fall recess begins
November 30	Classes resume
December 4	Last day to submit thesis and complete degree requirements
December 7-8	Second weekend session final examinations
December 7-8	Semester classes meeting Saturday-Sunday end
December 12	Semester classes meeting Monday through Friday end
December 12	Last day to withdraw from graduate courses
December 12	Last day to complete withdrawal appeal process
December 13	Study day
December 14-20	Final examinations-undergraduate and graduate
December 21	Winter recess begins

Spring 2014

January 7-17 and January 20	In-Person Registration
January 20	Martin Luther King, Jr. Day
January 21	Weekday classes begin
January 17	Awarding of January degrees
January 21-24 and January 27	Late registration and program changes
January 25-26	Semester classes meeting Saturday-Sunday begin
January 25-26	First weekend session classes begin
January 27	Late registration ends
January 27	Deferred final examinations
January 31	Last day to apply for May degree
January 31	Last day to apply for comprehensive examination
February 17	President's Day-no classes
February 18	Tuesday follows a Monday Schedule
February 24-March 7	Midterm examinations-classes in session
March 8-9	First weekend session final examinations
March 10	Spring recess begins
March 17	Classes resume
March 19	Last day to withdraw from undergraduate courses
March 22-23	Second weekend session classes begin
April 4	Last day to submit thesis and complete degree requirements
May 3-4	Second weekend session final examinations
May 3-4	Semester classes meeting Saturday-Sunday end
May 6	Semester classes meeting Monday through Friday end
May 6	Last day to withdraw from graduate courses
May 7-13	Final examinations-undergraduate and graduate
May 7	Last day to complete withdrawal appeal process
May 15	Commencement Ceremony
May 16	Conferral of May degrees

Summer I 2014

May 15-16	Registration and program changes
May 17-18	Weekend session classes begin
May 19	Weekday classes begin
May 20	Late registration ends
May 24-26	Memorial Day-holiday
May 27	Last day to withdraw from undergraduate courses
June 2	Deferred final examinations
June 4	Last day to apply for September degree
June 4	Last day to apply for comprehensive examination
June 28-29	Weekend session final examinations
June 30	Last day of class
June 30	Last day to withdraw from graduate courses
June 30	Last day to complete withdrawal appeal process
Last Class Meeting	Final examinations

Summer II 2014

July 2-3	Registration and program changes
July 4	Independence Day - holiday
July 7	Weekday classes begin
July 8	Late registration ends
July 12-13	Weekend session classes begin
July 16	Last day to withdraw from undergraduate courses
August 14	Last weekday class
August 14	Last day to submit thesis and complete degree requirements
August 14	Last day to withdraw from graduate courses
August 14	Last day to complete withdrawal appeal process
August 16-17	Weekend session final examinations
Last Class Meeting	Final examinations

ADMISSION

All communications concerning admission to the Richard L. Conolly College of Liberal Arts and Sciences, the School of Business, Public Administration and Information Sciences, the School of Education, the School of Health Professions, the School of Nursing and LIU Pharmacy (Arnold & Marie Schwartz College of Pharmacy and Health Sciences) should be addressed to the Office of Admissions, LIU Brooklyn, 1 University Plaza, Brooklyn, NY 11201-5372; 718-488-1011 or by visiting the LIU Brooklyn website at www.liu.edu/brooklyn/admissions. Students are also invited to email the Admissions Office at admissions@brooklyn.liu.edu.

Admission Policies and Procedures

The following admission policies and procedures are in place to help direct the student through the admissions and enrollment process and are intended to maintain the quality of our academic programs while representing the LIU Brooklyn mission statement. The mission of LIU is to provide excellence and access in private higher education to people from all backgrounds who seek to expand their knowledge and prepare themselves for meaningful, educated lives and for service to their communities and the world.

All admission policies and procedures are at the discretion of the Dean of Admissions and may be altered, deleted or revised at any time.

Applications for admission are accepted on a rolling admission basis for the fall and spring semesters. Most programs welcome new students--freshmen and transfer--for both semesters. Prospective students for the Dance program (freshman and transfer) and Pharmacy (transfer-third year professional phase) may only apply for and be admitted for the fall semester. Summer semester applications are welcome but students are encouraged to consider the fall or spring semesters due to course offerings and curriculum sequencing.

Please review the following applicant definitions to better understand the application procedures and policies that pertain to your personal situation. If you need assistance with understanding the criteria required for your application, please contact the Office of Admissions directly for more information.

Freshmen:

- students enrolled in post-secondary instruction with less than 24 transferrable credits.

Transfer:

- students previously and/or currently enrolled, part-time or full-time, in community college, college or university with 24 or more transferrable credits from a regionally accredited college or university.

- students who have previously completed a bachelor's degree and are applying to professional programs such as Pharmacy, Nursing, Athletic Training, or Occupational Therapy or other programs with significant undergraduate course requirements.

International:

- students who do not hold U.S. Citizenship nor permanent resident status.

Visiting:

- students who are applying for admission but not seeking to complete a degree of study; students are limited to maximum of twelve credits without requirement to enroll in a degree program. (See "Visiting Student" for more information.)

Application Process and Program Deadlines

While most programs do not have a specific application deadline, the sooner a student submits a completed application for review, the earlier the student could receive a final admission decision. Students applying to LIU Brooklyn are encouraged to submit their completed application no later than April 15th for the fall term and December 1st for the spring term to ensure that an admission decision can be completed in a timely manner to enroll. (*International students are strongly encouraged to submit their application for review no later than May 1 for the fall term and November 1 for the spring term.*)

While the University recommends deadlines for submitting an application for admission, LIU Brooklyn does honor a rolling admission process.

Please note the academic programs that DO require a complete application by a deadline date:

Program	Deadline for fall 2014 entry
Doctor of Pharmacy (professional phase)	December 2, 2013
Doctor of Pharmacy (pre-pharmacy)	February 1, 2014
Occupational Therapy (professional phase)	February 1, 2014
Speech Language Pathology (B.S./M.S.)	March 31, 2014

Complete Applications

Application evaluation is based on several criteria including program space availability. Students are encouraged to submit completed (see "complete application guidelines" below) applications as early as possible for the preferred term of entry so as to be given full consideration for admission.

Complete application Guidelines :

Please visit www.liu.edu/brooklyn/admissions

for updates to application procedures, requirements, deadlines and important information related to programs of study as information may change during the course of the admissions and enrollment cycle.

Freshmen Applicants :

- LIU Brooklyn application form (paper or online) or The Common Application (paper or online), including the LIU Brooklyn supplement, with a non-refundable application fee of \$50.00 USD; students may request a fee waiver from the College Board or National Association for College Admission Counseling (NACAC).
- Official transcripts from your high school showing the most recent, completed coursework; or official copy of GED score report. Current high school seniors are encouraged to submit senior year grades and, in some cases, first-quarter or mid-year grades will be required for review. Applicants who have graduated from high school should provide an official, final transcript that shows proof of high school graduation.
- Official copy of SAT or ACT test scores from ETS if not included on your official high school transcript (see "Standardized Testing: SAT, ACT, and tests of English as a foreign language" for more information).
- Official copy of TOEFL, IELTS or iBT if English is not the student's native language; students may also provide evidence of English proficiency with a minimum of 420 or higher on the SAT Critical Reading section.
- One letter of recommendation from an instructor, guidance counselor, adviser or supervisor is required. (Additional requirements related to letters of recommendations may apply; see specific program guidelines below.)
- 250 word minimum personal statement.

Transfer Applicants :

- LIU Brooklyn application form (paper or online) or The Common Application (paper or online), including the LIU Brooklyn supplement, with a non-refundable application fee of \$50.00 USD.
- Official transcripts from each college or university attended (additional course descriptions may be required for admissions or credit evaluation).
- Transfer students with fewer than 24 college credits must submit an official high school transcript showing proof of graduation or official copy of GED score report.
- Official copy of SAT or ACT test scores from ETS if not included on your official high school transcript (see "Standardized Testing: SAT, ACT and test of English as a foreign language" for more information).
- Official copy of TOEFL, IELTS or iBT if English is not the student's native language; students may also provide evidence of English proficiency with a minimum of 420 or higher on the SAT Critical Reading section.
- One letter of recommendation from an

instructor, transfer advisor, or supervisor is recommended. (*Additional requirements related to letters of recommendations may apply; see specific program guidelines below.)

- 250 word minimum personal statement.
- Transfer students who have been dismissed from their previous institution may be required to provide evidence that they are eligible to return.

International Applicants:

International applicants (either freshmen or transfer) must follow the above criteria and the following additional requirements:

- Students must submit official transcripts in original language with English translation/evaluation (if applicable) from an approved evaluator. Transfer students are required to submit a course-by-course evaluation of courses taken at the postsecondary level outside the United States.
- An official copy of TOEFL or IELTS scores is required if English is not the student's native language or school language of instruction is not English; students may also provide evidence of English proficiency with a minimum of 420 or higher on the SAT Critical Reading section.
- All applicants seeking an F-1 student visa are required to submit an affidavit of financial support equaling one year of tuition, room and board. (Please visit the website at www.liu.edu/admissions to review the total required for proof of financial support.)

Pharmacy (professional phase) applicants:

Students must apply through the pharmcas.org website AND submit a supplemental application directly to the Office of Admission by the listed deadline date. Candidacy for the program may be affected by missing deadline dates and/or failing to comply with the application procedures.

Occupational Therapy (professional phase) applicants:

Students must apply through the otcas.org website AND submit a supplemental application directly to the Office of Admissions by the listed deadline date. Candidacy for the program may be affected by missing deadline dates and/or failing to comply with the application procedures.

- **Letters of Recommendation and Interview requirements:** In general, admission interviews are not required. However, the programs listed above include an interview in their departmental review process. If the department requires an interview, your final admission decision will be pending until your interview is completed.

Program	# of Letters	Interview Required
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Occupational Therapy (professional phase)	3 letters	YES
Speech Language Pathology (professional phase)	3 letters	YES
Pharmacy (professional phase)	2 letters	YES

Auditions and Portfolio Requirements

Students applying to the B.S or the B.F.A. in Dance are required to audition for admission to the programs. For more information about the programs, audition process and audition dates visit the departmental website at www.liu.edu/dance.

Students applying to the B.F.A. in Studio Art or the B.F.A. in Computer Art are required to submit a portfolio of work for admission to the programs. For more information about the programs and the portfolio review process please visit www.liu.edu/brooklyn/art or www.liu.edu/brooklyn/mediaarts.

Students applying to the Music program are not required to audition prior to admission but will be required to audition prior to enrollment. Please visit www.liu.edu/brooklyn/music.

Submitting Applications and Supporting Credentials

Students applying using a paper application are required to send the application, along with the \$50.00 application fee (check or money order) to: LIU Brooklyn Office of Admissions 1 University Plaza Brooklyn, New York 11201

Students applying using the on-line application are required to send the \$50.00 application fee (check or money order) to the address listed above.

Students utilizing The Common Application should follow the application instructions published on-line by The Common Application.

All applicants must send supporting application materials--official transcripts, recommendations, and personal statement (if not submitted on-line) to:

LIU Brooklyn Admissions Processing Center P.O. Box 810 Randolph, Massachusetts 02368-0810

- Place the credential cover sheet (found on-line at www.liu.edu/brooklyn/admissions/forms-documents or as part of the paper application) as the top sheet of the package sent to the processing center.
- Do Not send slides, photographs, portfolios, CD's, DVD's, awards, newspaper articles,

checks or cash.

- SAT, ACT, TOEFL or IELTSs score are to be sent electronically to LIU Brooklyn (Code: 2369) from the testing agency or sent directly to the LIU Brooklyn Office of Admissions.
- **International applicants please forward all materials to the LIU Brooklyn Office of Admissions.**

Admission to the University

Freshmen Students

Entering freshmen are admitted with the expectation that they will profit from the educational opportunities provided by LIU Brooklyn. Students are reviewed and admitted, in most cases, directly into a bachelor's degree program. Some professional degree programs offer undergraduate students the opportunity to prepare for the professional phase by admitting to a "pre-professional" track. Under those circumstances, admission to the professional phase is not guaranteed and students may be required to apply for progression through the department for admission to the professional phase once the necessary coursework has been completed.

The Admissions Office will take into consideration for final admission decision the following: grades in high school and, if applicable, in college-level course work; prior academic record relative to the applied for program; SAT/ACT test scores; tests of English as a foreign language (TOEFL, IELTS or iBT); personal statement; letter(s) of recommendation; interview (if required by department); portfolio/audition (as required by department). Additionally, students' applications will be assessed for evidence of academic progression and potential for success at the university level. Evidence of leadership, community service, and life experience affecting students' previous academic record will be taken into account but may not affect the final admission decision if the student is not academically prepared for direct admission to their program of choice or for admission to one of the University's alternative admission programs. Students must provide the Office of Admissions a final, official high school transcript prior to finalizing enrollment at the University.

Most applicants accepted as freshmen have completed a college preparatory program including*:

- 4 Carnegie units of English
- 3 Carnegie units of mathematics (Algebra I, II and Geometry)
- 3 Carnegie units of sciences (w/ laboratory)
- 3 Carnegie units of social science
- 2 Carnegie units of foreign language (in sequence)

Candidates for the Bachelor of Science degree who plan to major in natural science or mathematics are strongly recommended to include in their high school preparation intermediate algebra (algebra II), trigonometry, one unit of

biology, and one of chemistry or physics.

*Additional academic requirements may be required, or strongly recommended. Please review the individual program sections of this catalog for more details.

Transfer Students

LIU Brooklyn welcomes students from two-year or four-year regionally accredited colleges/universities. A transfer student's application for admission will be reviewed on the basis of work done as a matriculated student, provided the student has demonstrated competence in the equivalent coursework to the degree/program in which they are applying. Students presenting fewer than 24 transferrable credits will also be evaluated based on their high school (or equivalent) coursework.

In some cases, students may apply for a second bachelor's degree if they are changing careers or pursuing a professional degree like Nursing or Pharmacy. However, bachelor's degree holders may, in some cases, be better candidates for Advanced or Graduate degree programs. The granting of transfer credit does not affect specific divisional or departmental requirements.

A credit evaluation of previously completed coursework will be included as part of the student's final decision process but may not always accompany the student's admission decision. An official evaluation will be posted to the student's LIU Brooklyn record when final official transcripts have been received by the Admissions Office. All final official transcripts must be received prior to the student starting his or her studies at LIU Brooklyn.

Coursework is transferrable to LIU Brooklyn if it is equivalent to a course currently offered at LIU Brooklyn and was earned at a regionally accredited college or university with a grade of C or better. Courses not approved for transfer through the admissions process may be reviewed at the departmental level and after approval credited to the student's transcript. Other transferrable credit considered may include: Advanced Placement credit (3 or higher in all subjects), International Baccalaureate credit (HL 4, SL 4 or higher), Advanced Levels (A,B, or C), CLEP (score of 50 or higher) and Excelsior College credit.

To qualify for the bachelor's degree, students admitted with advanced standing must complete in senior residence a minimum of 32 credits, including 15 credits of advanced work in their major in all schools and faculties. Advanced standing credit is provisional until students have completed at least 32 credits with a grade point average of 2.0 (C). To qualify for graduation, all students must also complete all other graduation and major requirements, including the requisite number of credits in the liberal arts and sciences.

Students wishing to transfer from other campuses of LIU are required to complete the Internal Transfer Form and must be in good academic standing. Transcripts and copies of the

student's original records will be sent upon filing a request form in the Registrar's Office of the parent institution. Admission to LIU Brooklyn programs is not guaranteed and is subject to a complete application evaluation.

LIU Brooklyn may admit recipients of associate degrees from accredited community or junior colleges. Such students will be accepted as juniors in the bachelor's degree program with full value of credit (60 or 64 credits), unless they have specialized in a highly technical or professional program, and will be programmed for their junior year as if they had completed all of the first two years of required work. In their subsequent required credits, they will be expected to complete the requirements of the chosen major and continue so far as possible toward completing other LIU requirements, except that the total number of credits will not normally exceed 128.

Possible exceptions to the foregoing may occur for Education majors, Physical Education majors, Health Science majors, professional phase Pharmacy students, professional phase Nursing majors, Science majors, Accounting majors intending to qualify to sit for the CPA examinations, students intending to major in a field other than that for which they received the associate degree, professional phase Pharmacy students and students planning to prepare to teach at the secondary school level.

To qualify for the bachelor's degree, all students must also complete the requisite number of credits in the liberal arts and sciences. Transfer students are evaluated for their prior academic achievement for their ability to meet curricular requirements for the intended program of study at LIU Brooklyn. Cumulative grade point averages as well as grade point average for specific areas of study (e.g.; overall science G.P.A.) may be considered for admission to specific areas of study.

LIU Brooklyn has articulation agreements with Kingsborough Community College, LaGuardia Community College, Borough of Manhattan Community College, New York City College of Technology and Bergen Community College for selected plans of study in the School of Business, Public Administration and Information Sciences, the School of Education and the School of Health Professions. More information regarding these agreements and to find out about additional agreements as they are developed can be found on the Admissions website at www.liu.edu/brooklyn/admissions.

International Students

International students are welcomed to study at LIU Brooklyn. Freshmen and transfer students are evaluated for overall academic achievement as well as English language proficiency. Students meeting the academic admission standards for a program of study but not meeting English proficiency requirements (61-79) may be offered Conditional Admission to LIU Brooklyn. Students offered conditional admission may enroll in a degree program after successfully completing the

ELI level 8 of the Intensive English Language Program or providing evidence of English proficiency.

In order to enter the United States to study, an international student will need a Certificate of Eligibility for Nonimmigrant (F-1) Student Status (SEVIS Form I-20). When applying for an F-1 visa, the applicant must submit a valid Form I-20 to the United States Embassy or Consulate in his or her country. In addition to these forms, the applicant will have to present a passport and evidence of financial support.

LIU requires the following information to prepare a Form I-20:

- Name – first and last (exactly as it appears on one's passport)
- Address (foreign home address)
- Mailing address (if different from home address)
- Country of citizenship
- Country of birth
- Copy of passport (pages with biographical information only)
- SEVIS number (if previously assigned to by the INS)
- Copy of current I-20 (if currently studying in the United States)

LIU will send the I-20 Form to the applicant after he or she has gained admission, submitted evidence of financial support and submitted the tuition deposit in the amount of \$200.00 (USD).

Notification of Admission Decision

Please note: the Office of Admissions utilizes a blend of mediums to communicate with students including: traditional mailings through USPS, e-mail, Facebook notifications and telephone outreach. Please be sure to check all addresses and points of contact for messages from the Office of Admissions and other Enrollment Offices and notify us promptly of any changes in address.

Acceptance

Students will be notified of the admissions decision including the program of study if admitted, shortly after all the necessary documents (application, official transcript(s), and official test score report) are received. Students admitted on or before April 1st for the fall term are required to indicate their intent to enroll no later than May 1st. Students admitted after April 1st for the fall term, or admitted for the spring term, are required to indicate their intent to enroll by the date indicated on their offer of admission. Students must indicate their intent to enroll by submitting a \$200 USD non-refundable deposit (check or money order); the deposit amount may vary for some programs of study. Please refer to the offer of admission for the exact amount required. Some students may also need to make additional deposits to secure housing. The deposit is applied to the first semester's tuition. Students with questions about

the required deposit should contact the Office of Admission for assistance.

Consideration for Alternative Choice

Majors

Applicants not offered admission to their primary choice of study will be evaluated automatically for alternative choice majors and may be evaluated for admission to PAS (Plan for Academic Success). Students not admitted to the University are strongly encouraged to pursue other academic options and are welcome to reapply for a future term.

Wait List

In some cases, depending on space availability, the Office of Admission may offer a candidate a place on a Wait List. The LIU Brooklyn Wait List decision is neither an offer of admission nor a decision to deny admission. The Wait List indicates that the student will be notified, generally after May 1st, if space has become available in the program of choice. Students offered a place on the Wait List will be given the opportunity to indicate an alternate choice of program, if not listed on the application, for admission review. Admission to the alternate choice of review is not guaranteed. Students admitted to the alternate choice program will no longer be eligible for admission to the original choice of major and taken off the Wait List for that program.

Students who elect to remain on the Wait List will be notified about the status of the Wait List no later than July 1st; if students are placed on the Wait List after July 1st the Office of Admissions will notify students of their status no later than August 15th .

In the event that space is not available the Office of Admissions will notify students and provide the students the opportunity to select an alternative major. Admission to an alternative choice of major is not guaranteed.

Requests to Defer Admission or

Application to a Future Term

Students admitted for a current/active term may request to enroll for up to one academic year. In order to qualify for a deferral, students must:

- Be admitted
- Not have already attended a class/course for term admitted
- Indicate prior to the start of the term the student wishes to enroll for a future term
- Successfully complete all coursework presented for evaluation; ensure that all final transcripts are received and have met terms of enrollment.

Students who wish to "defer" are not intending to enroll in courses at any other college or university. Students who are granted a deferral will be moved to a future term without re-evaluation of academic record.

Applicants who are not eligible to be granted a deferral may instead request that their application be moved to a future term for consideration.

However, admission for that future term is not guaranteed; applicants must submit all updated academic records for reevaluation for admission. Students who are under consideration for admission to a future term may elect to enroll at another college or university for the interim between original application term and future intended enrollment term.

New Student Enrollment

Once students have completed the commitment process to enroll at LIU Brooklyn they are required to complete several steps that will prove useful for a seamless transition to the LIU Brooklyn community. The following outlines the New Student Enrollment process:

- International students are required to pay a deposit in order to receive their I-20. Once students receive their I-20 released by LIU Brooklyn they are able to begin the process of obtaining an F-1, M-1 or J-1 visa to study in the United States.
- Students are required to submit all final official transcripts (high school and/or college transcripts) prior to finalizing enrollment in the fall
- Students may also be required to submit additional information or meet admissions conditions (some conditions may require completion through the student's first semester or first year of study). It is the student's responsibility to follow through with completing their admission/enrollment conditions. Failure to do so may impact future term registration.
- Students planning to live on campus are required to submit a separate housing deposit along with a housing application. Students who submit an application are not guaranteed housing. However, every effort will be made to meet students' request for accommodations.
- Students are strongly encouraged to complete the Free Application for Federal Student Aid (FAFSA). The FAFSA is used to award students financial assistance including any University merit-based scholarships that the student is awarded.
- Students are required to complete and return health and immunization forms to the University Health and Medical Services Office.
- Freshmen students will receive mathematics and English placement information from Freshmen Advising prior to attending New Student Orientation. Transfer students with less than 24 credits and no evidence of completing the equivalent of the LIU Brooklyn English and mathematics requirements will be required to take the LIU Brooklyn placement exam.
- Students who wish to continue foreign language studied in high school must be placed at the appropriate level by the Foreign Languages Department.
- All new students are strongly encouraged to

attend New Student Orientation to register for their first semester courses and activate their My LIU account. International New Student Orientation is held immediately preceding the start of the semester. Students will be able to sign-up for a New Student Orientation date once they have committed to attending the University.

- Students admitted to the professional phase of the Nursing program are required to complete the HESI A2 exam with a required minimum score of 75 in each area: vocabulary, grammar, reading comprehension, and mathematics section.
- Students who decide not to enroll at LIU Brooklyn after committing to enrollment must:
 - Contact the Office of Admission
 - Notify the Registrar in writing (if registered for courses)
 - Contact the Integrated Student Financial Services Office

These steps are important if you make alternate plans for enrolling; failure to complete the notification process may have serious financial implications especially if you have registered for courses and a bill has been generated for your tuition and/or housing.

Policies Related to Enrollment and Admission Programs

Plan for Academic Success (PAS)

The PAS program will review applicants who do not meet the requirements for admission directly into their intended program of study. Students offered admission into PAS will be considered based on their scholastic background and their potential for future success at LIU Brooklyn.

PAS provides students a unique supportive environment where they are introduced to student services, workshops, group advising sessions, and social/community-based programs designed to foster their success at the university/collegiate level.

Plan for Academic Success students are assigned a counselor who will assist in selecting classes needed to pursue their degree interests, assist in personal development and monitor the student's overall progress. Students completing PAS will earn an Associate's Degree and then transition seamlessly into one of the Bachelor's Degree granting programs for which they may be eligible.

Veterans

LIU Brooklyn welcomes applications from veterans and encourages them to take full advantage of their G.I. Bill benefits. Candidates are required to submit a copy of Form DD214, Report of Separation, and Certificate of Eligibility or Notice of Basic Eligibility (NOBE) for National Guard to the Office of Admissions. We accept military transcripts for credit as well. A Veterans

counselor is available to assist in admissions and funding procedures. For further information, contact the Veteran's Admissions Counselor in the Office of Admissions.

Readmission to LIU Brooklyn

Students who have interrupted their studies for a semester (Summer sessions not included) are required to file a readmission application with the Office of Admissions. Readmitted students must fulfill graduation requirements in effect the year of readmission.

Probationary students who withdrew from the University and are applying for readmission must have the approval of the appropriate Dean from the school at which the student was last enrolled as a student. Students wishing to return to the School of Nursing or The College of Pharmacy may require the appropriate dean's permission. Students wishing to change their program will then be advised through the admission process and evaluated for admission into their new program of study.

Students who have been suspended or dismissed for academic reasons must have their applications for readmission referred to the appropriate committee on scholastic standing. To allow sufficient time for review, it is strongly encouraged that readmission applications for dismissed students be filed no later than August 10 for the Fall semester, January 10 for the Spring semester, and May 10 for the Summer semester.

Visiting Students

Students attending and in good standing at other accredited colleges or universities who wish to enroll at LIU Brooklyn may apply as Visiting Students (non-matriculated). Inquiries should be directed to the Office of Admissions. Admission as a Visiting Student does not imply admission to a degree program at LIU Brooklyn, and Visiting Students are not eligible to receive LIU Brooklyn financial aid. Visiting Students who wish to pursue a degree at LIU Brooklyn must apply at the Office of Admissions.

Student Support Services

Services for Disabled or Academically At-Risk, Low Income, First Generation Students

Students in need of additional support may investigate the services offered through the Student Support Services Program for physically and/or learning disabled and/or Academically At-Risk first generation low income students. This Federally Funded TRIO program provides students coordinated services to address individual needs related to their disabilities or academically at-risk factors that would otherwise not afford students the educational and future career opportunities available to them through a degree of higher education.

Students do need to apply for additional services and/or admission to the program. To find out about services please contact the Office of Student Support Services at 718-488-1044.

Advanced Placement, International

Baccalaureate, College Level Examination Program

Candidates who have taken courses in high school under the Advanced Placement Program of the College Entrance Examination Board should arrange to have their scores sent to the Office of Admissions. Placement or credit (or both) may be granted for work that meets certain levels of achievement.

Students enrolled in the International Baccalaureate degree program may receive college-level credit for their exam results. Students receiving a 4 or higher (HL, SL) will receive the appropriate equivalent credit at LIU Brooklyn.

Candidates who have participated in the College Level Examination Program of the College Entrance Examination Board should arrange to have their scores sent to the Office of Admissions. Candidates who have taken A levels exams will be considered for college-level credit with an A,B or C. Students who have taken CAPE will be considered for college-level credit with a 1, 2 or 3. Subject exams must be equivalent to a LIU Brooklyn course to receive transfer credit.

Adult Degree Completion Program

LIU Brooklyn's Degree Completion Program provides guidance for adult students who are interested in going back to school to earn or to complete a degree, as well as those who are returning to enhance professional credentials or simply to enrich their lives.

OPAL (On-Line Portfolio for Adult Learners) is a program developed to assist adult students in earning credit for life experiences. Through a guided seminar class, Orientation Seminar I for the Adult Completion Program, students will design an e-portfolio to document how life experiences may match academic course work, allowing them to earn credit toward completing a degree. Through OPAL and any other previously earned transferable college credit, students may decrease the time normally required to complete a Bachelor's degree. Additionally, students may opt to take a CLEP examination for college-level credit. Refer to the "Advanced Placement, International Baccalaureate, and College Level Examination Program" section for more information about alternative forms of receiving advanced credit.

Graduate Admissions Preparedness Program (GAPP)

The LIU Graduate Admissions Preparedness Program (GAPP) permits LIU Brooklyn and LIU Pharmacy alumni who have held their Undergraduate or Professional degrees for two years or longer to register for a lifetime maximum of 12 credits in credit-bearing undergraduate courses at LIU Brooklyn for which prerequisites have been completed. Some courses may require departmental approval. A \$200 registration fee is required per semester, but tuition is waived. Continuing Education and certificate courses are excluded from this program. This program may

enable alumni to undertake basic coursework, which may not have been completed as an undergraduate, in order to pursue a graduate degree. Participants may not register until the first week of classes. For further information, contact the Office of Admissions.

Graduation Rate

As reported to the U.S. Department of Education and the New York State Education Department in spring 2012, the graduation rate for first-time, full-time, bachelor's degree seeking undergraduates who enrolled in fall 2005 was 20 percent.

GRADUATION REQUIREMENTS

Note: Graduation requirements for LIU Global can be found in their separate catalog.

To qualify for a bachelor's degree, all students must complete or be exempted from all required Developmental Skills Mathematics and Basic Mathematics and the English Department Writing Program. Students must also complete the Core Curriculum, all required liberal arts and sciences courses, and all other departmental and University requirements announced in the Undergraduate Bulletin for the academic year in which they were matriculated or readmitted. Specific requirements, substitutions or exemptions, where relevant, are indicated.

Placement Examinations

Entering freshmen may be required to take the LIU Brooklyn placement examination in English and/or in Mathematics before registering. Entry into or exemption from English and Mathematics courses depends on the results of such placement examinations or SAT/ACT scores. Transfer students will be placed in such courses either on the basis of the LIU Brooklyn placement examinations, appropriate transfer credit, or SAT/ACT scores. All students who do not have SAT/ACT scores, or whose SAT/ACT scores fall below a certain level, will be required to take a placement test.

Developmental Skills and Basic Mathematics Courses

Developmental Skills 0 credits
Mathematics 01 and 09

As determined by placement examinations. DSM 01, or exemption therefrom, is a prerequisite for DSM 09. DSM 09, or exemption therefrom, is a prerequisite for Mathematics 10, 15, 16.

Basic Mathematics 10* 3 credits

**Entry into or exemption from Mathematics 10 is required of those majors for whom Mathematics 30 is required as part of the Core Curriculum or as a prerequisite for requirements in the major. Unless departments specifically state otherwise, all other majors must register for Mathematics 15 or 16 after being exempted from or successfully completing all proficiency mathematics courses. Note: Proficiency Mathematics courses may not be taken on a Pass/Fail option.*

The English Department Writing Program

English Composition: 0-6 credits
English 13, 14
(depending on placement)

Orientation

Orientation Seminar 1 1 credit

Note: Required of all entering full-time freshmen and transfer students with less than 24 credits

except for students in the HEOP program. Pass/Fail grade only.

Core Curriculum

The following Core Curriculum applies to all units of LIU Brooklyn. Consult program models for specific requirements, changes and exemptions. Core Curriculum courses may not be taken on a Pass/Fail basis.

Any changes in the Core Curriculum will be required of all students entering subsequently.

Core Seminar 50 3 credits

Required for graduation. Transfer students must take this course unless they have an A.A. degree when they are accepted. University Honors Program students must complete the full Freshman Sequence to be exempt from the course.

Humanities

Area I: English 16 or 3 credits
16x

Six credits from 6 credits
English 61, 62, 63, 64

Area II: Philosophy 61, 6 credits
62

Area III: Six credits in a 6 credits
Foreign Language*

Social Science (6 credits in each area)

Area I: History 1, 2 6 credits

Area II: Six credits 6 credits
from Anthropology 4,
5, Economics 1, 2,
Political Science 11,
Psychology 3, and
Sociology 3

Science and Mathematics

Area I: Eight credits 8 credits
from Biology 1-2, 3-4,
Chemistry 3, 4, 3x, 4x
for professional majors

or Ten credits from 10 credits
Physics 20, Chemistry
21 and Biology 22 for
all other majors

Area II: Three or four 3-4 credits
credits from
Mathematics 11z, 12z,
15, 16, 30, or 40.**

Communication, Visual and Performing Arts

Area I: Speech 3 3 credits

Area II: Three credits 3 credits
from Art, Dance,
Music, or Theatre
61***

**Not required of Business, Pharmacy, School of Health Professions or Nursing majors. All other students may satisfy the language requirement by completing six credits in Foreign Language 11, 12*

(the six credits must be in one language) or by successfully completing Language 12 or the equivalent. Students with a knowledge of a foreign language may take a placement/exemption examination. Students who are exempted need not take a foreign language, but receive no credit. For information concerning placement/exemption, contact the Foreign Languages and Literature Department.

***Science, Mathematics, Pharmacy and Health Professions majors (except Physician Assistant and Sports Sciences majors) must register for Mathematics 30. Teaching, Learning and Leadership majors must register for Mathematics 11z. Business majors must register for mathematics 16. All other majors, including Nursing, Physician Assistant and Sports Sciences majors, must register for Mathematics 15 or 16. ***Required only of Richard L. Conolly College and the School of Education students. Note: Students in the University Honors Program satisfy the core requirements in the Humanities, the Social Sciences, and Communication, Visual and Performing Arts by the appropriate Honors Program seminars.*

Writing Across the Curriculum

The Writing Across the Curriculum (WAC) Program is an important component of the LIU Brooklyn core curriculum. The WAC Program mission has two goals: (1) to implement and supervise LIU Brooklyn's writing-intensive requirement, and (2) to manifest and support the faculty's emphasis on writing, both in the core and across the disciplines. The LIU WAC Program encourages students to recognize that writing is a key to their achieving those goals – common to all disciplines – set forth in the Campus's mission statement: the acquiring of essential literacies, and the development of intellectual curiosity, analytic and reasoning skills, and effective communication skills. To this end, throughout their undergraduate careers, students are expected to produce a substantial body of written work in core courses as well as in upper-division courses offered by all academic departments. To fulfill their writing-intensive requirement, students must complete English 16, the Core Seminar, and a writing-intensive course in their majors. Transfer students with the equivalent of one year of college-level composition are required to complete the writing-intensive requirement in their major. See academic advisers for specific writing-intensive courses required in the major.

Computer Literacy Requirements

All undergraduate students admitted to LIU Brooklyn are required to demonstrate basic computer skills in each of the following areas prior to graduation: (1) MS Windows, (2) MS Word, and (3) Internet/e-mail skills. Students entering may satisfy this requirement in one of three ways:

By passing all three sections of the Computer Skills Evaluation Exam (CSEE) listed below, with a C+ or higher.

or

By passing all three designated Computer Science courses listed below, with a C+ or higher.

or

By combining options 1 and 2, a student may substitute a passing grade of C+ or higher in the designated Computer Science course(s) for the corresponding section(s) of the CSEE.

Designated Computer Science Course Corresponding CSEE section

CS-9 (Introduction to Windows Environment) Windows

CS-9A (Word Processing) Word

CS-9H (Internet WWW) Internet/e-mail

Students entering with an associate's or bachelor's degree from another accredited institution will be exempt from the core curriculum computer literacy requirement and must contact the Testing Center to request this exemption. Transfer students entering can also meet this requirement if they receive appropriate transfer credit from the Office of Admissions. The CSEE is administered by the Testing Center.

Other Requirements

Students become eligible for a Bachelor of Arts, a Bachelor of Fine Arts, or a Bachelor of Science degree when they have completed a minimum of 128 credits with a grade point average of at least 2.00 in all their academic work and at least a 2.00 in their major fields and they have met all other graduation requirements. Of the 128 credits required for graduation, at least 48 must be in courses numbered over 100. At least 96 credits in the liberal arts and sciences* must be completed by the candidates for the Bachelor of Arts and Bachelor of Fine Arts degrees and at least 64 by candidates for the Bachelor of Science degree.

Students must demonstrate minimum competency in reading, writing and mathematics before graduating. Competency may be established in one of three ways: (1) exemption from Developmental Skills Mathematics and Basic Mathematics courses and The English Department Writing Program on the basis of LIU Brooklyn's placement examinations, (2) successful completion of those courses, or (3) transfer credit and/or equivalency at a higher level.

**The liberal arts and sciences requirement is satisfied by Richard L. Conolly College courses and certain other nonprofessional courses.*

Academic Records

Students have until the time of their graduation to have changes made on their academic records. Once a student has graduated, the academic record is frozen and cannot be changed retroactively.

Students failing to fulfill all nonacademic requirements (tuition, fees, library obligations, etc.) will be denied subsequent services, including, but not limited to, withholding of diplomas, transcripts, letters of recommendation, or licensure eligibility until those requirements are met.

Courses in Plan Field

Students normally must take not fewer than 30

credits in courses in their plan (major) field that are approved for department majors. For specific course requirements in the major, check department requirements listed under the appropriate program model. At least 24 credits must be taken in courses numbered above 100.

Courses in Minor Field

In addition to having a major, a student may wish to have a minor. A minor may consist of at least 12 credits in courses numbered over 100 in a department or discipline other than the student's major department. Consult the Department Chair for specific requirements in that department. A student may also formulate a thematic interdisciplinary minor with the approval of the Department Chair and the appropriate Dean. A student may complete more than one minor with the approval of the appropriate Department Chair. Once a student successfully completes 12 or more credits in courses numbered over 100 for a minor, the Dean will notify the Registrar to enter the minor on the student's transcript. Any minor satisfies the distribution requirement. (Not all disciplines permit a student to minor in their subject areas.)

Double Major

Students may graduate with two separate majors by fulfilling all the requirements of each major. Advisers in both departments should be consulted to determine all departmental requirements. Applications for filing for a double major are available in the Registrar's Office and require the approval of both Department Chairs and the Dean or Deans of the respective departments. The student must designate which of the two majors will be the primary major. That major will determine the type of degree awarded (B.A., B.F.A., or B.S.).

Elective Courses

Students may take any courses in the curriculum to complete the 128 credits required for graduation, provided that they have completed all prerequisites and provided the courses are not restricted to specific majors. A sufficient number of electives must, however, be in the liberal arts and sciences to satisfy requirements for graduation (see Other Requirements, above).

Honors Study

Outstanding seniors and upper juniors are eligible for Honors Study and may apply to the Chair of their department for the privilege. A total of six credits of independent work, under the guidance of a member of the faculty, is the maximum allowed.

ACADEMIC REGULATIONS

Note: Academic regulations for LIU Global can be found in their separate catalog.

Numbering of Courses

Every course in the curriculum is identified by a number below 100 if it is introductory, above 100 if it is advanced, and above 500 if it is on the graduate level.

Grades and Symbols

1. The following grades are used:

Grade	Quality Point	Grade	Quality Point
A	4.000	C+	2.333
A-	3.667	C	2.000
B+	3.333	C-	1.667
B	3.000	D	1.000
B-	2.667	F	0.000
		P	0.000

2. The following symbols are used:

INC (Incomplete)

The symbol INC may be assigned if, for reasons acceptable to the instructor, a student has failed to complete a part of the required course work. An INC is given only at the discretion of the faculty member. It is the student's responsibility to make specific arrangements with the instructor to complete the course work and to have the grade submitted to the Office of the Registrar before the end of the next semester.

If the course is completed within the next semester, both the INC and the final grade will appear on the student's permanent record; that is, satisfactory completion of the course does not eliminate the original "Incomplete" designation.

An INC grade that is not made up during the next semester becomes an F.

ABS (Absent from Final Examination)

The symbol ABS is assigned when a student fails to take the final examination in a course in which he or she was doing satisfactory work.

If a student fails to take a deferred final examination, the ABS is changed to F at the end of the next semester. If the ABS is made up, the final grade will appear on the student's permanent record as I followed by the grade. A student who receives an ABS in the first half of a hyphenated course may take the second half of the course only with the written permission of the Chair of the department concerned.

A grade of F is assigned when a student misses the final examination in a course in which he or she was doing unsatisfactory work.

See Absence from a Final Examination, for procedures for filing for a deferred final.

W (Withdraw)

The symbol W is assigned when a student officially withdraws from a course in which he or

she was doing satisfactory work. See the procedure for Withdrawal from One or Several Courses.

WF (Withdrawn, failed)

The symbol WF is assigned when a student withdraws and is doing unsatisfactory work. The WF is not computed in the cumulative average.

UW (Unauthorized Withdrawal)

The symbol UW is assigned when a student unofficially withdraws from a course. The UW is not computed in the student's average.

U (Unsatisfactory)

The symbol U is assigned in certain proficiency courses when a student has completed all work but in a fashion unacceptable to warrant a passing grade. The student must, therefore, repeat the course in the semester immediately following. The symbol U is not computed in the student's average.

A student may receive only one U symbol in any course. On the second enrollment, the student must either satisfactorily complete the course or receive an F.

Pass/Fail Option

Students will be permitted to opt for a Pass/Fail grade in a maximum of one course per semester for a total of eight semesters. Such an option does not apply to courses in the student's major, to courses that are prerequisites to or required by the major, or to courses that are used to satisfy the core requirement. Students should consult a faculty adviser and department requirements before exercising the Pass/ Fail option. The election of the Pass/Fail grading system must be designated at the first class meeting. All requirements of examination and work assigned by the instructor must be fulfilled.

Promotion from Class to Class

Before the commencement of the Fall semester, students who have completed 30, 60, or 90 credits become members of the sophomore, junior or senior class, respectively.

Recognition of Superior Scholarship

Matriculated students who complete at least 12 credits and achieve a grade point average of at least 3.50 in any one semester are put on the Dean's List for that semester. Students who earn a D, F, W, WF, UW, U, INC or ABS in any semester, even though the symbols are subsequently changed to grades, may not be placed on the Dean's List for that semester. A student who does not receive an official grade in any semester will not be placed on the Dean's List until the official grade is handed in, excluding those listed above, that otherwise qualifies the student for the Dean's List.

Students who attain a 3.70 cumulative index for 16 credits or more are eligible for a Dean's Award. Students who achieve a grade-point average of 3.50, 3.70, or 3.80 for 128 credits may be graduated respectively cum laude, magna cum laude or summa cum laude. Transfer students must have completed at least 60 credits at LIU Brooklyn in order to qualify for such honors.

Academic Responsibility

Candidates for an undergraduate degree at LIU Brooklyn are expected to know the graduation requirements set forth in this publication. It is the responsibility of the student to draw up an acceptable program of study. All students must seek the counsel of an adviser.

Exemptions

A student may be exempted from a basic course and allowed to go into intermediate or advanced work if the Chair, the Division Director or the Dean concerned has examined the student to determine that he or she has an adequate knowledge of the work covered. The Dean must then inform the Registrar. Such notice must be presented in writing at the time such a decision is made. If the student intends to take no further work in the subject, the Chair may also exempt the student from a basic course after a written examination. No credit may be given for courses from which a student has been exempted.

Auditing of Courses

Auditors are students who, with the permission of their adviser and the dean of the course they plan to audit, register for that course in order to improve their knowledge of it. They receive no credit for the course and pay half tuition for it. Laboratory courses may not be audited. Dean's List students may audit courses without paying a fee.

Registration

Students who have completed their first term of study at LIU Brooklyn are eligible to select and register for classes through their My LIU (my.liu.edu) account. Students with academic and financial restrictions may not be able to register online and must contact the appropriate office.

Student Access to Educational Records

In compliance with the Family Educational Rights and Privacy Act, LIU Brooklyn informs eligible students and their parents that they may obtain copies of the Campus's Policy Statement concerning the Act from the Office of Institutional Advancement and Student Affairs.

Definitions

Semester Hour

The unit of credit is the semester hour. It represents 50 minutes of instruction per week for one semester. Each semester hour requires a minimum of two hours a week of private study or laboratory work.

Plan

The subject in which a student chooses to concentrate is called the plan (major).

Entering and transfer students should affiliate with one of the academic departments or be enrolled in a special program to ensure proper academic advisement. Students may elect to have a double major with the approval of the Chair of both departments. Students who wish to change a major may do so only with the written approval of

the Chair of the department to which they wish to transfer.

The selection of a department with which to affiliate is initiated by the student through the Office of the Registrar.

If a student's cumulative average is less than 2.0, the student may change a major only with the approval of the Chair of the new department and the Dean.

Minor

A minor consists of at least 12 credits in courses numbered over 100 in a department or discipline other than the student's major department. Students should consult department advisers for specific requirements, or they may formulate a thematic interdisciplinary minor with the approval of the Chair of their major department and the appropriate Dean. (Not all disciplines permit a student to minor in their areas.) A student may complete more than one minor with the approval of the appropriate Department Chair.

Electives

In every curriculum there are certain courses required of students by their major department and college. In addition, a student is allowed a certain number of free choices to complete the 128 credits required for a bachelor's degree or the 64 credits approved for an associate degree. Such free choices are called electives and may be taken in any field in the School of Business, Public Administration and Information Sciences and in any field other than the major in all other schools, provided that the student possesses the necessary qualifications and has completed the prerequisite courses.

Quality Points

See above under Grades for quality points assigned to each grade. The quality points to which a student is entitled are computed by the formula $X = N \times Y$, where X is the number of quality points, N the quality point equivalent assigned to the grade, and Y the number of credits.

The quality-point ratio is obtained by dividing the sum of the quality points received in all courses by the total number of credits, including unrepeatable F's.

Quality point ratio computations are carried to the third decimal place from which rounding takes place to the second decimal place. For example, a computed quality point ratio of 2.994 will be rounded down to 2.990. A computed quality point ratio of 2.995 will be rounded up to 3.000. On all official LIU transcripts, a quality point ratio will be displayed to three decimal places with the third decimal place always being zero due to rounding.

To graduate, a student must have a quality point ratio of not less than 2.00 in all work and a 2.00 in the major.

Matriculation

Students whose applications indicate an intention to pursue a degree are classified as matriculants provided they remain in good standing. Degree candidates who are admitted with

the understanding that technical deficiencies (e.g., lack of complete official transcripts) are to be removed within a certain period of time will be classified as special matriculants pending satisfaction of those conditions. Failure to comply with such conditions within the prescribed time limit may result in loss of matriculant status or dismissal.

Administrative Regulations

The following regulations will familiarize students with some of their responsibilities. Ignorance of these regulations is not an acceptable excuse for failure to comply with them.

Changes of Address or Telephone Number

A student must report changes of address or telephone number to the Office of the Registrar.

Cancellation of Courses

The University reserves the right to cancel undersubscribed courses. When it does so, there is no program change fee.

Attendance

All students are expected to attend classes and to participate in classroom activities. Instructors have the right to weigh attendance and class participation in determining grades. Consequently, excessive absences may negatively affect the evaluation of a student's performance.

Freshmen and probationary students are allowed no more than two class-hour absences per credit hour. All students enrolled in science laboratory courses may not be absent for more than 20 percent of laboratory time. Instructors are urged to record attendance in all classes for counseling purposes.

Tardiness

Students are expected to be present from the beginning of a class until the instructor dismisses it. If students arrive late, they may be denied admission or marked absent.

Absence from Tests and Midterm

Examinations

If students absent themselves from any test other than the final examination, the instructor may afford or deny them an opportunity to make up the work that was missed. In such cases, the instructor is the sole judge of the validity of each student's excuse.

Absence from a Final Examination

Students who for any reason are absent from a final examination and who wish to take a deferred final examination are required to file an Application for a Deferred Final Examination in the appropriate Dean's office within five days of the exam, giving the reason for the absence from the examination.

If the absence was caused by sickness or injury, the application must be accompanied by a medical certificate stating when the illness began or the injury was sustained and the number of days of confinement recommended by the physician.

If the absence was caused by death in the

immediate family, the student must inform the Dean of the date of the death and his or her relationship to the deceased.

See the Academic Calendar for published dates of deferred finals. See Grades and Symbols for the grade assigned when a student misses a final examination.

Good Standing and Probation

The University reserves the right to dismiss at any time students whose academic records are unsatisfactory. To be in good standing, students must make appropriate progress toward fulfilling all requirements of the program in which they are enrolled. Failure to do so will be cause for dismissal.

Students whose scholastic average falls below the following quality-point ratios are placed on probation:

- 1.8 if they have accumulated up to 29 credits
- 1.9 if they have accumulated 30 to 59 credits
- 2.0 if they have accumulated 60 credits or more

A probationary student is barred from participation in extracurricular activities and, at the discretion of his or her Dean, may be required to carry a limited program. Being placed on probation does not mean loss of good academic standing.

The records of students on probation are subject to review by the appropriate academic committee. Such students may have their probationary periods extended, or they may be dismissed. The committee is the highest authority on questions of probation.

Students with excessive W's or Incompletes (or both) on their records may likewise be considered as failing to make satisfactory progress toward completion of their programs of study. In that event they may be declared ineligible to continue until they have taken appropriate steps to rectify the situation. The appropriate academic committee is the highest authority on such questions of satisfactory progress. A student remains in good standing until the committee declares the student ineligible to continue.

Discipline

Students are expected to conduct themselves in accordance with the normally accepted standards of academic life. That implies that they will conduct themselves with due regard for the rights of others and, in particular, that their behavior will not interfere with the ability of the academic community to carry out its usual academic functions. It also implies that they will observe the usual standards of integrity with regard to the preparation of essays and the taking of examinations. Students are also expected to comply with those reasonable rules of procedure promulgated by a faculty member for the conduct of his or her class or by the college or school for the conduct of its business.

Specifically, students must be aware not only of the performance and intellectual standards of each course, but also of the means acceptable in

achieving those goals. Students are expected to study all materials presented and to master them. Students may avail themselves of all sources that will further that mastery—textbooks, the library, student study sessions, tutoring, study aids, and so on. Ultimately, however, the instructor's judgment of a student's performance is based on the student's own intellectual achievement and honesty.

Cheating on examinations and plagiarism of any sort are unacceptable and, if proven, are cause for the most severe penalties up to and including suspension or dismissal from the University.

The classroom instructor determines the rules of acceptable student conduct during examinations. Each instructor has the right to insist on procedures to ensure the integrity of those examinations: seating arrangements, no communication among students, the restriction of materials available to students during the examination, and so on.

If a student is discovered cheating in a classroom examination or written assignment, either by crib notes or by receiving information from or giving information to a fellow student or by any means not stipulated by the rules of the examination, the instructor has the right to confiscate all test materials from the person or persons involved and give the grade of zero for the examination to the person or persons knowingly involved. The instructor also has the right to fail the students for the course.

Also, students who submit written or other work provably not their own or who submit work with sources inadequately acknowledged or with an inadequate system of documentation for a specific course assignment may be given the grade of zero for the work submitted and a failing grade for the course.

Any breach of discipline may result in disciplinary action, including suspension or dismissal. The Faculty-Student Judicial Review Board, in accordance with its procedures, may hear all cases that may result in suspension or dismissal and will recommend an appropriate course of action to the Dean.

The activities of a student may upon occasion result in violation of state or federal law. Respect for the presumption of innocence requires that the institution not impose academic sanctions for the sole reason that a student is or has been involved in criminal proceedings. The institution may, however, impose its own sanctions to protect the safety of other students, faculty and property and to safeguard the academic process. If students, in breaking the law, violate institutional regulations, they will be subject to no institutional penalty greater than that which would normally be imposed.

All matters involving criminal activity will, upon approval of the Provost, be referred to the appropriate civil authorities for action.

If there is a possibility that testimony or other evidence at an institutional hearing may be subject

to disclosure to civil authorities by way of subpoena, the institution's proceedings should be postponed to safeguard the student's right to a fair civil determination.

Grievance Procedure

Students at LIU Brooklyn may expect a scrupulous regard for their rights as students and individuals and should expect to be treated fairly and with courtesy by all members of the academic community. In any matter in which students feel that their rights have been violated, or in matters of serious dispute with members of the administration or faculty, students may avail themselves of the following formal grievance procedure:

1. The student will write out a clear statement of the grievance.
2. The student may submit this statement to the staff member involved. The student will be given a written response within a reasonable time.
3. If the student is not satisfied with the response (or initially, if preferred) the student may submit a statement to the appropriate director or department head. The director will review the matter and provide the student with a written response within a reasonable time.
4. If still not satisfied, the student may institute a formal complaint with the Dean of the School in which he or she is enrolled. The Dean will review the matter, hear the student and staff member where appropriate, and see that the proper action is taken.

The foregoing procedure shall be a formal grievance procedure for the resolution of all student grievances, including those alleging actions prohibited by legislation.

Readmission

If students have been suspended or dismissed for disciplinary reasons and desire to return to LIU Brooklyn, their applications for readmission are referred to the Office of the appropriate Dean.

If students have been suspended or dismissed for academic reasons, their applications for readmission will be reviewed by the appropriate Dean.

Withdrawal from All Courses

An Official Withdrawal refers to an action taken by a student to discontinue enrollment after the drop period has expired. The course is recorded on the transcript with a grade of W.

- **Course Withdrawals/Partial Withdrawals** - when a student withdraws from one or more classes, but remains enrolled in at least one class.
- **Term/Session Withdrawals/Complete Withdrawals** - when a student drops or withdraws from all of his/her courses in a current term. This can occur at one time or over a period of time within a term.

Unofficial Withdrawal

An Unofficial Withdrawal refers to a student who fails to attend or ceases to attend one or more classes without officially withdrawing from the

University. The course is recorded on the student's transcript with a grade of UW.

Course Drop

A Course Drop is an action taken by a student prior to the start of, or during the term. The dropped course does not appear on his/her transcript. Please refer to the University Add/Drop Policy for details on course drops.

Official Withdrawal Deadlines

- **Complete Term/Session Withdrawals** - Students may officially withdraw from the University prior to the start of finals.
- **Summer Session Withdrawals** - Students may officially withdraw from the University prior to the start of finals for the session.
- **Winter Session Withdrawals** - Students may officially withdraw from the University on or before the seventh day of the session.
- **Course Withdrawals/Partial Withdrawals** - Students may officially withdraw from one or more classes through the 10th week of the term. Please refer to the Academic Calendar in the Campus Bulletin on the University website for specific dates in each term.

Withdrawal Methods

The University permits students to withdraw from a course, session, or term in the following manner:

Submit Completed Withdrawal

Application Form

A student may withdraw in person, by fax, or by email by submitting a signed and completed Withdrawal Application Form to the Office of the Registrar by the withdrawal deadline. Forms are processed upon receipt. Any forms faxed outside business hours, during weekends or holidays will be processed the following business day.

Process through MyLIU

- **Course Drop** - Students can use their MyLIU portal to drop courses online through the second week of the term. Please refer to the University Add/Drop Policy for details on course drops.
- **Email to Office of the Registrar** - A student may notify the Office of the Registrar of their intent to withdraw from the University via their MyLIU e-mail account. Due to FERPA regulations, the University will not respond to requests from outside email sources. In the body of the email, the student must state their intent to withdraw from a course, session, or term. Please include your Student ID number and direct contact information.

Withdrawal Impacts

Effective Date of Withdrawal

- **Official Withdrawals:** The withdrawal date will be recorded with an effective date when all forms are completed, signed and returned to the Office of the Registrar. The University has a published Appeals Policy for students who wish to appeal their official withdrawal date.
- **Unofficial Withdrawals:** The withdrawal determination date for students who do not officially withdraw will be recorded as the

last date of the term. For Federal financial aid purposes, it will be assumed that the student unofficially withdrew at the midpoint of the term. See Grading Policy for additional details.

Tuition Liability/Refund

- **Official Withdrawals and Drops:** The effective date of drops and/or withdrawal will determine the student tuition liability due or refund due to the student. See Tuition Liability Policy for additional details, including refunds for room and/or board charges. The University has a published Appeals Policy for students who wish to appeal tuition charges and fees due.
- **Unofficial Withdrawals:** The student is responsible for all associated tuition charges and fees.

Transcript/Grades

- **Official Withdrawals:** A grade of W will be assigned for the course or courses and will appear on the student's transcript.
- **Unofficial Withdrawals:** A grade of UW will be assigned for the course or courses and will appear on the student's transcript.
- **Drops:** The course will not appear on, or will be removed from the student's transcript.

Credits Attempted/Earned

- **Official Withdrawals:** The course or courses will be considered attempted but not earned.
- **Unofficial Withdrawals:** The course or courses will be considered attempted but not earned.
- **Drops:** The course or courses will neither be considered attempted nor earned.

Grade Point Average

Withdrawn or dropped courses do not affect a student's grade point average.

Financial Aid Adjustments

- **Change in Student Status:** Students who change their enrollment status from full-time to part-time, or from full or part-time to below half-time, due to a partial drop or withdrawal, may have their Federal, State, and/or University aid adjusted. The University may also be required to report the student's change in enrollment status to lenders, which can trigger the repayment of student loans. Students will be notified in these cases via writing.
- **Cancellation of Financial Aid:** Students will have their financial aid cancelled if the student drops all courses and does not incur any liability, or fails to meet satisfactory academic progress standards as a result of the withdrawal. Financial aid for future terms may also be cancelled. See Appeals Policy and SAP Policy for additional details.
- **Return of Federal Funds:** The University is required to return funds for students who stop attending all courses before completing 60% of the term. The student will be notified by mail of the unearned amounts returned to the Federal financial aid programs. The return of Federal funds may result in a balance due to the University, particularly if the student previously received and cashed a refund check.

See Return of Federal Funds Policy for additional details.

Residential Life

Students residing in on-campus housing must contact the Office of Residence Life upon withdrawal from the University. Students must follow proper check-out procedures and must vacate their campus housing within 48 hours of the effective withdrawal date. Students who drop or withdraw from a future term must vacate their campus housing after completion of finals. Room and board charges must be cancelled through the Office of Residence Life. Liability for these charges will be assessed at the time of cancellation.

Future Enrollment

Students who withdraw from all courses may be subject to readmission. Students who withdraw from the University must be in good financial standing in order to register for future classes or have access to their official and unofficial transcript.

Special Program Participation

- **Athletics:** In accordance with NCAA regulations, all intercollegiate athletes must notify the Athletic Department and Office of Admissions when partially or fully withdrawing from the University.
- **Veterans:** In accordance with VA regulations, students receiving veteran's benefits must notify the VA Certifying Official on campus when partially or fully withdrawing from the University.
- **HEOP:** Students participating in the Arthur O. Eve Higher Education Opportunity Program must notify the HEOP Program Director when partially or fully withdrawing from the University.
- **Honors:** Students participating in the Honors Program must notify the Honors Program Director when partially or fully withdrawing from the University.

Alternatives to Withdrawal

Schedule adjustments

When contemplating a withdrawal due to scheduling conflicts, students should discuss their situation with their academic advisor, academic dean, or the Office of the Registrar to see if accommodations can be made.

Incomplete Grades

For some students, receiving an incomplete grade and finishing the coursework at a later time may be a better option than withdrawing from the University. Students should be advised to discuss this option with their instructor, academic advisor or academic dean.

Refund of Tuition in Cases of Withdrawal

When a student withdraws from courses, the University refunds tuition as outlined in the Withdrawal Policy (please see the Tuition and Fee Schedule).

Repeating Courses

Students may repeat any course with the

permission of their advisers. To repeat a course more than once, they must have permission of the appropriate Dean. Credit will be earned only once, and the second grade-whether higher or lower-will be computed in the student's average. After the second time a student takes a course, all grades except the first will be computed in the student's average.

Residence Requirement

To qualify for an undergraduate degree at LIU Brooklyn, a student must complete in senior residence a minimum of 32 credits, including 15 credits of advanced work in his or her major. In the School of Business, Public Administration and Information Sciences, a student must complete 12 credits of advanced work in his or her major.

Students enrolled in LIU Brooklyn programs at branch campuses or off-campus sites must register for and complete residency requirements (usually six credits) at LIU Brooklyn.

Policy for Taking Courses at Another Institution

Matriculated students at LIU Brooklyn may only take courses at another institution and have credits transferred to LIU Brooklyn under the following conditions:

- Students must file an Application to Take Courses at Another Institution with their respective Dean's office. Students must have the relevant department verify the LIU Brooklyn equivalency and credits. The Dean may then grant permission. Note: the dean, not the department grants permission.
- The other institution must be a four-year accredited institution (two-year community colleges are unacceptable).
- It must not be within the New York City metropolitan area (within a 50-mile radius of LIU Brooklyn) except as noted below.
- Students may be permitted to take specialized courses not offered on campus, e.g., Japanese, or Medieval Stained Glass Windows.
- Only credits for courses with grades of C or better may be transferred back to LIU Brooklyn.

INTEGRATED STUDENT FINANCIAL SERVICES

Through a mix of personal and online services, the Office of Integrated Student Financial Services has developed a system that supports our students in managing all aspects of financing their education. The goals and objectives of the Office is to help students obtain maximum eligible financial aid awards, provide comprehensive counseling sessions, optimize payment arrangements, disseminate financial aid and billing information clearly and understandably, support the University's mission of access and excellence, and increase and assist in student retention efforts.

Using the University's convenient My LIU portal at <https://my.liu.edu>, you can view your financial aid status and account activity, pay your bill online, make online appointments with counselors, and view "to do" items and "holds" that help you complete required tasks to ensure your continued enrollment at LIU Brooklyn. In addition to our online student portal, our experienced financial aid counselors will work closely with you and your family to ensure you receive world-class service throughout your college experience.

UNDERGRADUATE TUITION AND FEES (2013-2014 RATES)

Students are billed for tuition and fees at the time of registration. Room and board charges are reflected at the time of room assignment. **Students must make satisfactory payment arrangements prior to the start of each term or before moving into residence halls to remain in good financial standing.**

General Tuition and Fees

Tuition, per credit, per semester	\$1010.00
Pharmacy, Pharm.D. Program Years 1-2:	
Tuition per credit, per semester (less than 12 credits)	1010.00
Tuition, flat rate, per semester	16,185.00
Pharmacy, Pharm.D. Program Years 3-5:	
Tuition per credit, per semester (less than 12 credits)	1,196.00
Tuition, flat rate, per semester	19,137.00
Pharmacy, Pharm.D. program Year 6:	
Tuition per academic year	40,350.00
Audit fee (undergraduate), per credit	505.00
Tuition Deposit fee (nonrefundable)	200.00 - 500.00
Application fee (nonrefundable)	50.00
University fee, per semester:	
Students carrying 12 or more credits	850.00
Students carrying 12 credits per term	425.00
Life Experience fee, per credit:	250.00
Pharmacy Professional fee, per term	45.00
Course fees, per semester:	

ACC 111W, 112W	125.00
ART 217	150.00
DSM 01, 09	758.00
ENG 13, 13X, 14, 14X	758.00
MUS 15I, 15P, 15T, 15V, 16I, 16P, 16T, 16V, 115I, 115P, 115T, 115V, 116I, 116P, 116V	250.00
NUR 304H, 304M	400.00
PSY 840, 841, 842, 843	100.00

Residence Life

RESIDENCE HALLS

Deposit (submitted with housing application)	\$ 300.00
Fall and Spring Accommodations, per semester:	
Standard Conolly:	
Double	3,682.00
Triple	2,775.00
Suite Conolly:	
Double	4,386.00
Triple	4,008.00
Quad	4,182.00
Apartment Conolly:	
Double	5,365.00
Triple	4,886.00
Quad	5,518.00
Suite Hoyt:	
Double	5,447.00
Triple	5,161.00
Quad	5,335.00
Quintuple	5,732.00
Apartment Hoyt:	
Double	6,895.00
Triple	6,895.00
Fulton Apartment:	
Studio	9,400.00
1 Bedroom	10,274.00
2 Bedroom	9,476.00-10,403.00
3-6 Bedroom	8,961.00 - 9,373.00
Intersession (per week)	268.00
Summer Accommodations, per session:	
Suite Conolly:	
Double	1,755.00
Triple	1,685.00
Quad	1,612.00
Apartment Conolly:	
Double	2,010.00
Triple	1,867.00
Quad	1,785.00
Suite Hoyt:	
Double	2,377.00
Triple	1,795.00

Quad	2,142.00
Quintuple	2,458.00
Apartment Hoyt:	
Double	2,765.00
Triple	2,510.00

MEAL PLANS, per term

Fall and Spring, per term:

Residential Meal Plan 1 (unlimited Meal plus 300.00 Flex Dining Dollars)	2,350.00
Residential Dining Dollars	300.00

Resident students not living in apartment accommodations are required to participate in a meal plan. Declining dollars can be used at point of sale locations across the campus.

Other Fees

Transcript of record (on-line, in person, or via mail), per request	\$7.00
Replacement I.D. card	25.00
Late graduation application fee	50.00
Reinstatement of cancelled registration	100.00*
Delayed registration fee	200.00*
Late payment fees:	
First (assessed 45 days into the term)	50.00*
Second (assessed on the last day of the term)	100.00*
Deferred final examination fee per examination (maximum \$60.00)	20.00
General Comprehensive Examination fee	25.00
Returned check fee	25.00
University Payment Plan fee	35.00
Diploma Replacement fee	35.00

Repayment of returned checks and all future payments to the University from a student who has presented a bad check must be tendered via bank check, certified check, money order, AMEX, VISA, Discover or MasterCard.

*Students are expected to clear their bills before the start of classes. In the event that a student fails to do so, late payment fees will be assessed. Registered students who have not cleared their bill by the 45th day into the term will be obliged to pay a late payment fee of \$50.00. Bills not cleared by the last day of the term will be assessed an additional late fee of \$100.00. If a student's registration is canceled, the student will be required to pay a reinstatement fee of \$100.00 plus the late payment fees. If the reinstatement takes place one year or more after the semester has ended, current tuition rates will be charged. Any student who deliberately fails to register but attends classes with the intention of registering late in the term will be responsible for paying the delayed registration fee of \$200.00. If the registration takes place

one year or more after the semester has ended, current tuition rates will be charged.

Student Health Insurance

Health Insurance:

Rates for the Annual Plan	1,599.00
Rates for the Spring Semester (newly enrolled students), covers the policy period 1/1/14 - 5/15/14	1,030.00
Rates for the Summer Semester, covers the policy period 5/1/14- 8/14/14	452.00

Pharmacy malpractice insurance fee, per term (years 3-6) 12.00

Health insurance (Compulsory for domestic resident students, all international students, intercollegiate athletes, and students assigned field work in a health care curriculum). Charges are billed for an annual plan in the Fall semester, covering the policy period 8/15/13 - 8/14/14. Charges are not reduced if a student does not reside in the Residence Hall for the Spring semester, or is no longer in a health care curriculum, since coverage continues to be effective over the full policy period.

Withdrawal Policy

If you register for courses and decide not to attend, you must officially withdraw your registration prior to the end of the first week of classes to avoid liability. You can withdraw online using your My LIU account through the first week of the term. After the first week of classes, you must complete an **Application for Withdrawal Form** and receive official approval from the Office of the Registrar on your campus. **Non-attendance and/or non-payment do not constitute official withdrawal from the University.**

When a student withdraws, the University will refund tuition and fees as indicated in the following schedule.

LIU Institutional Refund Schedule

Time of Withdrawal	Fall/Spring terms
Cancellation prior to beginning of term or session	Complete refund except for deposit.
During 1st calendar week	100%
During 2nd calendar week	75%
During 3rd calendar week	50%
During 4th calendar week	25%
After 4th week	No refund

Time of Withdrawal	3-Week terms
Cancellation prior to beginning of session	Complete refund except for deposit.
Day 1 of Term	100%
Day 2 thru 8 of Term	60%
After Day 8 of the Term	No refund

Time of Withdrawal	4-, 5- or 6-Week terms
Cancellation prior to beginning of semester or session	Complete refund except for deposit.
Day 1 thru 2 of Term	100%
Day 3 thru 9 of Term	60%
Day 10 thru 16 of Term	25%
After day 16 of the Term	No refund
Time of Withdrawal	7- or 8-Week terms
Cancellation prior to beginning of session	Complete refund except for deposit.
Day 1 thru 2 of Term	100%
Day 3 thru 9 of Term	70%
Day 10 thru 16 of Term	30%
After day 16 of the Term	No refund
Time of Withdrawal	10- or 12- Week terms
Cancellation prior to beginning of session	Complete refund except for deposit.
Day 1 thru 2 of Term	100%
Day 3 thru 9 of Term	80%
Day 10 thru 16 of Term	60%
Day 17 thru 23 of Term	25%
After day 23 of the Term	No refund
Time of Withdrawal	Weekend College
Cancellation prior to beginning of term	Complete refund except for deposit.
Day 1 thru 2 of Term	100%
Day 3 thru 9 of Term	70%
Day 10 thru 16 of Term	30%
After Day 16 of the Term	No refund
Time of Withdrawal	Short-Term Institutes (3 weeks or less)
Cancellation prior to beginning of first class	Complete refund except for deposit.
Day 1 of Term	100%
Day 2 of Term	80%
After Day 2 of the Term	No refund
Time of Withdrawal	Continuing Studies
Cancellation prior to beginning of first class	Complete refund except for deposit.
Prior to start of second class	80%
After second class session	No refund

The University will make all feasible efforts to conduct suitable academic services in the event of an unanticipated interruption. If the University is unable to provide education services to the Campus students because of a natural catastrophe, employee strike, or other conditions beyond its control, tuition and fees will be refunded in accordance with a reasonable refund schedule to be determined at that time.

Financial Obligations

Students are liable for all charges incurred at the time of registration or room assignment. Your My LIU account makes it easier than ever to manage your financial obligations. To view your current account balance, simply log into your My LIU account online at <https://my.liu.edu> and click on the **Account Inquiry** link in the **Finances** section of your **Student Center** homepage. Students must make acceptable payment arrangements or officially withdraw prior to the start of classes to remain in good financial standing. Acceptable payment arrangements include:

- Payment in full;
- Approved financial aid covering all charges;
- Signed and approved University Payment Plan Agreement Form; or
- Participation in an approved third-party payment agreement.

A student who complies with any of the above shall be considered in good financial standing, so long as all terms and conditions are met throughout the term. All payment arrangements must be completely satisfied in accordance with your University authorized payment agreement or fees and/or penalties may be applied. If your account becomes seriously past due and no arrangements are made, the University will refer it to an external collection agency or law firm, where additional fees and penalties may be charged to your account. The University's policies and procedures governing Student Financial Services can be found online at: www.liu.edu/SFS

Payment Arrangements

LIU offers convenient options to pay your account balance due. We offer many different payment methods, including check, all credit and debit cards, ACH, money order, and wire transfer.

My LIU: You can use your My LIU account to securely pay your balance online at my.liu.edu using a check, credit or debit card by clicking on the **Make a Payment** link from your **Student Center** homepage or from within the **Account Inquiry** section. To log into the Payment Gateway, enter your My LIU user name and password. From here, you may also set up an authorized user account so that a relative, guardian, or employer can pay any outstanding balance on your behalf. If you need assistance with making a payment online, please visit the **Center for Student Information** website at <http://csi.liu.edu>.

Payment by Mail: If paying with a check or money order by mail, please date the payment appropriately and make it payable to **Long Island University**. Any payment not honored by the bank is subject to a \$25 returned item fee and may restrict your future payment options to certified check, money order, or credit card. You may also receive an additional charge from your financial institution. The University is not responsible for fees assessed by your bank.

Third Party Payments: The University will temporarily clear student account balances if presented with written authorization from a third party or sponsoring company that intends to make a payment on your behalf. Students must submit official written authorization and complete a Deferred Payment Plan Agreement Form, along with payment for any remaining balance due. Additional information on third party payments can be found online at www.liu.edu.

Payment Plans

The University offers two basic types of interest-free payment plans to assist students with managing the cost of their education each term:

- Monthly Plans are offered to students who make payment arrangements

before the start of the term. Monthly Plans provide the most affordable payment options to our students and immediately place you in good financial standing. The balance is spread across 4-6 equal monthly installments with at least two payments due prior to the start of the term.

- Term Plans are offered to students who need to make payment arrangements at or after the start of the term. Term Plans should only be used as a last resort because the number of installments is limited to 2-3 monthly payments. In addition, your total balance due must be covered by an appropriate combination of approved aid, applied aid, and/or an initial student payment.

The University must approve your signed Payment Plan Agreement Form and receive your first initial payment for your account to remain in good financial standing. There is a \$35.00 enrollment fee per term that is due with your first payment.

STUDENT FINANCIAL AID

Financial Aid is awarded on an annual basis in the form of scholarships, grants, loans and part-time employment. Assistance is offered to students admitted into eligible undergraduate degree programs at LIU Brooklyn.

Application Process

All candidates for LIU scholarships or grants, Federal grant and loan programs, work-study opportunities, and New York State Tuition Assistance Program (TAP) grants are required to complete the Free Application for Federal Student Aid (FAFSA) each year. The FAFSA should be completed online at www.fafsa.ed.gov. The federal school code for the LIU Brooklyn campus is **002751**. Residents of New York State must also complete the Tuition Assistance Program (TAP) application using the LIU school code of **0403**. Continuing students at LIU must reapply for financial assistance each year.

Applicants for financial aid are expected to apply for Federal Pell Grants, and those who are legal residents of New York State are expected to apply for TAP awards. Applicants for financial aid may expect to be notified of the decision reached by the Office of Integrated Student Financial Services shortly after their files have been completed. No action will be taken until the candidate has been accepted by the Office of Admissions.

Awards

LIU Scholarships and Awards

The LIU Brooklyn campus awards approximately \$50M in University scholarship assistance to students each year. These scholarships and grants, which do not require repayment, are based on academic success, athletic ability, community service, artistic talent, and financial need. The campus also offers honors and departmental scholarships for specific programs of study. A detailed listing of professional scholarships can be found online at www.liu.edu/brooklyn/scholarships.

In addition to University financial assistance, LIU Pharmacy provides additional aid in the form of scholarships funded through the generosity of alumni and friends. Awards are based on academic achievement and professional promise, as well as financial need. Interested students should submit a Pharmacy Scholarship Application prior to the start of each Fall semester for consideration. Additional information on these scholarships, including how to apply, can be found online at www.liu.edu/pharmacy/scholarships.

Federal and State Grants and Loan Programs

The Federal government awards financial assistance to students who demonstrate financial

need according to a variety of economic criteria as determined by the United States Department of Education. The criteria include an individual and/or parents' income and assets, family's household size, and the number of family members attending college. Benefits from all federal programs are subject to legislative changes. Recipients of federal programs must be U.S. citizens or permanent residents. Federal financial aid programs such as the Federal Pell and SEOG Grant Programs are limited to the first four years of undergraduate study. Federal Direct Loan program amounts also differ for the undergraduate years vs. the graduate years.

The New York State Higher Education Services Corporation (HESC) also offers a wide variety of grants, scholarships, student loans and parent loans for part-time and full-time college study. HESC also administers the Tuition Assistance Program (TAP), the nation's largest state grant program. Grants and scholarships are types of aid that do not need to be repaid. Although students apply for financial aid directly to HESC, the funds are taken into account when developing the LIU financial aid package. You must be a U.S. citizen and resident of the State of New York to be eligible for HESC awards. Students who reside outside of New York State may be eligible for grants, scholarships and loans from their home state. Contact the Federal Student Aid agency at 1-800-433-3243 or www.federalstudentaid.ed.gov for more information. A detailed listing of New York State awards can be found online at www.hesc.com.

A detailed listing of Federal and State programs, including Pell grants, SEOG awards, TAP, and Direct Loans, can be found online at www.liu.edu/Brooklyn/Financial-Services/Scholarships-Grants-and-Loans/Federal-and-State-Sponsored-Grant-Programs.

Veteran Benefits

The LIU Brooklyn campus has a proud and distinguished history of serving its nation's military veterans and active duty service members. Our supportive community of staff and faculty is dedicated to seeing veterans succeed in their education, career and life. To accomplish this mission, LIU Brooklyn provides the resources needed to pursue educational opportunities while balancing the demands of life both inside and outside the classroom.

With the Post-9/11 GI Bill, education-related benefits, including funds for tuition, housing, books and supplies, are better than ever for our veterans. In addition, financial aid, scholarships and New York State tuition awards and grants may also be available to help you with costs that are not covered by your veteran benefits. Additional information can be found online at www.liu.edu/Brooklyn/StudentLife/Veterans.

Private Loans

If you find that you need funding beyond the limits of the Federal Direct Student Loan Program,

you may wish to consider a Private Loan. These loans are not guaranteed by the Federal government and are considered private loans. We urge all students and parents to research any lender they are considering for this type of funding and to specifically ask a number of key questions, including:

- current interest rates
- co-signer requirements
- repayment options, both in school and out
- whether or not the loan may be sold to another provider

The University does not have a preferred lender for private loans; each student has the right to select the educational loan provider of his or her choice. However, there are a number of independent resources that can be used to evaluate and analyze alternative loan options.

If you have considered applying for a private loan, you may be required to complete the Free Application for Federal Student Aid at www.fafsa.ed.gov in order for the University to certify your loan eligibility. Alternative loans that are used to cover prior semesters may require additional information for approval, such as letters certifying indebtedness, attendance verification, official transcripts, etc. As such, when requesting funding for prior terms, be sure to reference the correct academic year on your application.

The basic process involved with securing private loans is the electronic filing of an application, institutional certification, and approval information. Generally speaking, electronic filing processing requires at least 72 hours before a lender will respond. The University will assist you in this process and will determine for you the maximum loan amount you will be allowed to borrow based on your estimated cost of attendance and pre-existing financial aid awards. The complete process normally takes 7-14 business days.

Terms and Conditions

Awards are not finalized until all requested supporting documentation has been properly submitted and reviewed. All awards are subject to funding levels and appropriations by Federal and State agencies. Many aid programs require that you be matriculated and attend the LIU Brooklyn campus on a full-time basis. LIU reserves the right to adjust or cancel offers of financial assistance if you make changes to your FAFSA, adjust your registration status, withdraw from one or more courses, or fail to maintain good academic standing for financial aid purposes. LIU also reserves the right to change the selection criteria, deadlines, and awarding process of academic awards.

Awards, grants, and scholarships listed are for professional study only and do not apply to LIU Global, undergraduate, and graduate studies. Such students should refer to the appropriate Bulletins for these programs of study.

Recipients of Federal and State financial aid must maintain full-time student status to receive the maximum benefits from these programs. Students who withdraw and/or drop their registration below full-time status must have their current and future financial aid eligibility re-determined. All awards from the LIU Brooklyn campus are accompanied by a letter of stipulation detailing the terms of the award. Students are governed by the stipulations accompanying their specific awards. Full-time status, for the purpose of scholarship and grant renewal, is defined as carrying and earning a minimum of 12 credits per semester.

Unless otherwise indicated, University assistance is for tuition charges only. Students are advised to inform LIU of any aid received from outside sources, and awards from LIU may be adjusted if such additional assistance is in excess of estimated need.

Standards for Satisfactory Academic Progress

Federal Financial Aid Programs

Federal regulations require students to make satisfactory academic progress (SAP) toward the completion of a degree or certificate program in order to receive Title IV financial aid, which includes the Federal Pell Grant, Federal SEOG, Federal Work Study, Federal Perkins Loan and the Federal Direct Loan Programs. Satisfactory academic progress is measured qualitatively and quantitatively by two components: a student's cumulative grade point average (G.P.A.) and the amount of credits they have earned relative to their year in school and enrollment status.

Satisfactory academic progress is measured annually, at the end of the Spring semester, after all grades have been submitted. Students failing to meet the criteria stated below are eligible to appeal this decision if extenuating circumstances played a factor in their academic performance. Examples of such circumstances could include an illness, accident, separation or divorce, or the death of a relative. An appeal must be made in writing to the University and include an explanation of the circumstance(s) that may have adversely affected the student's ability to meet the academic requirements, and the plan or changes that have occurred which will allow them to make SAP in the future. All appeals must be accompanied by supporting documentation, such as a letter from a doctor or attorney. If an appeal is granted, the student will either be placed on probationary status for one semester during which the student must meet SAP guidelines, or must successfully adhere to an individualized academic plan that was developed for them by their academic advisor as part of their appeal. Failure to meet these criteria will result in loss of eligibility for Title IV funds.

Students wishing to receive Title IV financial aid for Summer semesters may have these awards

evaluated and offered prior to a determination of SAP. All students receiving summer aid will have their SAP evaluated after all spring grades have been submitted. Students not making progress will have their summer aid cancelled, and the student will be liable for all tuition and fee charges incurred unless an appeal is filed and granted as outlined above.

The criterion below outlines the progress that is required for a full time professional student to be considered in good standing:

SAP Completion Requirements

Number of Credits Attempted	Number of Credits Earned
0-29	50%
30-208	67%
209 and above	80%

SAP G.P.A. Requirements

Total Credits Earned	Cumulative G.P.A. Required
0-29	1.8
30-60	1.9
60-138	2.0
139 and above	2.33

Notes:

- Progress standards for part-time students are prorated based upon the criteria above.
- Qualifying transfer credits are counted as both attempted and earned credits but have no effect on the G.P.A.
- Grades of W (Withdrawal), UW (Unofficial Withdrawal), ABS (Absent), INC (Incomplete), and IF (Incomplete Fail) are counted as credits attempted but not completed, and do not affect the G.P.A.
- Repeated classes will count only once towards credits completed. A student may receive aid for a repeated class that has been successfully completed once.
- Students may not receive Federal aid for classwork that exceeds 150% of their degree requirements.
- Any departmental requirements that exceed these standards must be adhered to for the purposes of evaluating SAP.

New York State TAP Awards

To receive financial aid awards from New York State, including Tuition Assistance Program (TAP) funding, students must meet the academic standing requirements established by the New York State Education Department. These requirements are different than those set forth by the Federal government, and apply only to New York State awards.

The basic measures for good academic standing for TAP Awards include the following:

- Pursuit of Program: A student must receive a passing or failing grade (A-F) in a certain

percentage of courses each term.

- Satisfactory Academic Progress: A student must accumulate a specified number of credits and achieve a specified cumulative grade point average (G.P.A.).

The requirements for meeting these standards increase as the student progresses, and are based upon the number of State awards that the student has already received. Students failing to meet the established criteria are eligible to request a one-time waiver of the academic and/or "C" average requirement(s) if extenuating circumstances played a factor in their academic performance. Examples of such circumstances could include an illness, accident, separation or divorce, or the death of a relative. An appeal must be made in writing to LIU and include an explanation of the circumstance(s) that may have adversely affected the student's ability to meet the academic requirements, and the plan or changes that have occurred which will allow them to make SAP in the future. All appeals must be accompanied by supporting documentation, such as a letter from a doctor or attorney. If a waiver is granted, the student will be eligible for the State award for the semester for which they were granted the waiver. The student must continue to meet the academic progress and pursuit of program requirements to receive further awards.

The charts below outline the progress that is required for a professional student to be considered in good standing:

Baccalaureate Semester Based Program Chart (2006 Standards)

Applies to students first receiving aid in 2007-08 through and including 2009-10 and remedial students first receiving aid in 2007-08 and thereafter.

Semester	Before Being Certified for Payment:	
	A student must have accrued at least this many credits	With at least this G.P.A.
1st	0	0
2nd	3	1.1
3rd	9	1.2
4th	21	1.3
5th	33	2.0
6th	45	2.0
7th	60	2.0
8th	75	2.0
9th	90	2.0
10th	105	2.0

Baccalaureate Semester Based Program Chart (2010 Standards)

Applies to non-remedial students first receiving aid in 2010-11 and thereafter.

Semester	Before Being Certified for Payment:	
	A student must have accrued at least this many credits	With at least this G.P.A.
1st	0	0
2nd	6	1.5
3rd	15	1.8
4th	27	1.8
5th	39	2.0
6th	51	2.0
7th	66	2.0
8th	81	2.0
9th	96	2.0
10th	111	2.0

Notes:

- All students must be registered for a minimum of 12 credits per semester.
- A student may not receive a NY State award for repeating a class that they have already successfully completed (i.e., the credits for a repeated class for which the student has already received a satisfactory grade will not count towards the full-time requirement).
- The standards that a student must meet are dependent upon when a student first received an award from NY State, as well as their remedial status.
- A student is placed on the chart above based upon their total TAP points received, including any award(s) received at a previous institution(s).
- To continue to receive TAP funding, a minimum number of credits must be completed each term, as well as on a cumulative basis.
- A student must maintain a minimum grade point average (G.P.A.) prior to being certified for a TAP payment. This average increases as the student progresses in payment points.
- All students must have a cumulative G.P.A. of 2.0 (a "C" average) or better after accumulating 24 or more payment points (e.g., 4 full time semesters).
- A student who is not making progress, and/or is not meeting the "C" average requirement may request a one-time waiver if extenuating circumstances affected their academic performance. A student may only receive this waiver once for NY state awards.

THE LIBRARY

Ingrid Wang, Associate Professor, Director;

Telephone: 718-488-1680

Fax: 718-780-4057

The LIU Brooklyn Library houses a rich collection of books, periodicals, microforms, audio and videotapes, CDs and DVDs, pamphlets, and other materials in support of the Campus' educational programs. Online databases, both bibliographic and full text, are available for searching multidisciplinary and specific subject areas. Remote access from off-campus is available; the databases and library catalog may be accessed through the University website at www.liu.edu/brooklyn/library.

The reference collection, reference desk, paralegal collection and Technical Services departments are situated on the third floor of the Salena Library Learning Center. An information commons, consisting of clusters of computers, provides access to the databases, library catalog, and the Internet, all within a few steps of the reference librarians. These computers, as well as all other computers in the library, are also equipped with productivity software such as word processing, spreadsheet, and presentation programs.

The Periodicals department, with a collection of both print and microforms titles, is located on the fourth floor, where digital microform reader/printers are available. The InterLibrary Loan, Special Collections, Rare Book Room, and Library Information Technology are also located on the fourth floor.

The circulation desk, reserve collection, and the main book stacks are located on the fifth floor. The Media Center, housing the multimedia collection, media equipment and a group viewing room, is also on the fifth floor, as is the Library's Cyber Lab. The Cyber Lab is equipped with computers that provide access to databases, library catalog, and Internet as well as up-to-date word processing, spreadsheet, presentation and database programs. In addition, the Library's "smart classrooms" are located on the fifth floor. Photocopying machines are available on all three floors of the Library.

Research materials not in the collection of the LIU libraries are provided from other libraries in Brooklyn as well as the larger metropolitan area. Interlibrary loan services are available to locate materials throughout New York State and nation-wide. The Library is a member of several consortia, which grant both reading and borrowing privileges to LIU students.

The Library is linked electronically to the libraries at other LIU campuses, and shares one catalog – LIUCAT. This resource provides information on all of the more than 2.6 million items held by the University. In addition to print materials, the Library has a large collection of electronic books, e-encyclopedias and full text journals, available 24/7 to all library users. The Library offers Information Literacy classes and curriculum-integrated instruction. Library faculty and staff are available to help faculty and students with reference questions and research strategies.

OFFICE OF STUDENT DEVELOPMENT AND RETENTION

Phone: 718-488-1042 Email: bkln-OSDR@liu.edu

The Office of Student Development and Retention is a unique collaboration of student support departments with a mission to assist LIU students in achieving their academic, professional and personal goals. Our dedication to students begins freshman year and continues through graduation. First Year Programs, Sophomore Year Programs, and Career Services & Senior Year Advising offer academic advising, career counseling, instruction, coaching and mentoring so that students can create a plan for success that is individually crafted to meet their specific needs. All Departments of the Office of Student Development and Retention are located in Pratt Room 510.

- First Year Programs: 718-488-3378
- Sophomore Year Programs: 718-488-1605
- Career Services and Senior Year Advising: 718-488-3311

First Year Programs

The mission of First Year Programs is to provide all new students with a supportive community while helping them build a foundation for academic success and personal development. Through specialized advising, exploration communities, credit bearing courses, and orientation programs, First Year Programs offers new students personal support and guidance in discovering academic opportunities, developing life skills, exploring leadership opportunities, and forming meaningful relationships. It is our goal to help all new students acclimate to university life and ensure that they become an integral part of LIU Brooklyn while excelling academically.

First Year Programs include the following components.

Freshman Advising

Freshman Advisors help students achieve a full understanding of university core requirements as well as provide accurate information on institutional policies, procedures, resources, and programs.

Orientation

All newly admitted freshman and transfer students are required to participate in our orientation cycle. The orientation cycle consist of three parts: Advising & Registration, Orientation and Convocation. Each part is designed to fully welcome you to the LIU Brooklyn community.

Plan for Academic Success

A special first-year initiative that offers its students personalized attention and one-on-one academic counseling.

Welcome Week

Kicking off Orientation Seminar I class, Welcome Week helps first-year students further explore the various activities, opportunities and assistance available to LIU students on the LIU Brooklyn campus.

Orientation Seminar I

All freshmen and transfer students with fewer than 30 credits register for this dynamic and interactive seminar which provides students with the information and skills needed to thrive academically, professionally and socially.

Learning Communities at LIU Brooklyn

The Learning Communities at LIU Brooklyn offer an engaging and fun opportunity for students to explore various core courses with specialized themes with a select group of first-year students. Students involved in the Learning Communities will work closely with their advisors and professors to cultivate a unique and fulfilling first year experience.

Peer Leader Program

Peer Leaders provide first-year students with the insights, advice and support necessary to achieve success in college.

Orientation Leader Program

Orientation Leaders have the primary responsibility of helping first-year students make a smooth transition to LIU by serving as a resource and role model. OL's serve as a guide for new students who are making the transition to the diverse academic, intellectual, and social culture of LIU Brooklyn.

Sophomore Year Programs

Sophomore Year Programs develops students scholastically, professionally, and fiscally; while encouraging student potential and active participation in campus life. They facilitate the transition of students from their first year to their second, supports them throughout their sophomore year, and enables them to progress into their junior year with confidence and focus.

Sophomore Year Programs includes pre-professional program advising, undeclared major counseling, probationary student programming, major exploration workshops; personality, skills, interests, and values assessments; major selection and job prospect correlations, resume reviews, interviewing techniques, the COOP 1: Career Readiness course, and financial literacy workshops. Sophomore Year Programs fosters student leadership potential, promotes student engagement in campus activities, clubs, and events; and provides opportunities for community service.

As an essential component of Sophomore Year Programs, the Scholarship Assistance Program provides information, support and guidance through the scholarship search and application process. Working with the Sophomore Year Programs staff, students discover additional opportunities to finance their education. Sophomore Year Programs staff develop an individualized plan of action for each student, while encouraging students to become engaged in their studies, with their professors and within their campus community.

Career Services and Senior Year Advising

Stephanie Steinberg, Assistant Dean

The Office of Career Services and Senior Year Advising provides a comprehensive array of services and programs to help LIU Brooklyn students navigate the career planning process. We help students to successfully and confidently formulate, prepare for and manage their professional careers and secure work opportunities while in school and after graduation, ensuring their effective transition to the workplace post-graduation.

You are encouraged to meet with your career counselor, who specializes in your major, each year, beginning Freshman year. Through one-on-one counseling, we will help you:

- Identify your skills and interests through the Strong Interest Inventory® and explore suitable career paths and industries
- Navigate our job bank/career management system, MyCareerKey
- Secure internships in your field of interest; connect you with classes such as Coop 1 and Coop 2 to satisfy internship credit if necessary
- Create resumes and other job-search tools that position you as a strong candidate in a competitive market
- Prepare for interviews and job fairs through mock interviews
- Conduct your degree audit, facilitating timely graduation

Through our Internship program, students have the opportunity to gain hands-on professional experience related to academic studies, participate in professional development programs and apply for department monetary awards.

The office also sponsors workshops on timely topics such as using social networking in job search. We sponsor recruitment events such as career fairs, employer spotlights and on-campus interviews, as well as opportunities to meet with and learn from seasoned professionals. We promote off-campus career events as well. Our Alumni Mentor program is another great resource for students as they explore different career options.

Two programs that offer students skill-building work experience include The America Reads/Counts Program, which is a federally funded work-study program where students tutor school age children, and the national JumpStart

program, which pairs college students with preschool children to build their language, literacy and social skills.

Students may schedule an appointment by calling 718-488-1042 or meet with a career counselor during walk-in hours in Pratt 510. Please visit us online at: www.liu.edu/brooklyn/careerservices.

LEARNING RESOURCES

Academic Reinforcement Center

Courtney Frederick, Director
718-488-1040

Location: Pratt, Suite 110
Hours: Monday – Thursday, 9 a.m. - 8 p.m.
Friday, 9 a.m. - 5 p.m.

Online Tutoring Available, various hours 7 days a week, through Blackboard.

The Academic Reinforcement Center (ARC), centrally located in the Pratt Building, Suite 110, is a learning center that offers quality one-on-one and small-group tutoring across the disciplines to undergraduates of LIU Brooklyn. We provide assistance in mathematics, business, languages, and the humanities, as well as the social, physical and health sciences. Tutoring sessions are designed to supplement in-class work and focus on providing opportunities for active learning, self-reflection, and collaborative study. Tutors, acting as educational mentors rather than instructors, focus not on teaching content and completing homework assignments, but on posing problems and putting course subjects into practice through critical thinking and re-examination. We want to help you become a better learner. We offer weekly one-on-one or small-group sessions, walk-in tutoring sessions, online tutoring, targeted group workshops, study skills support, mid-term & final exam review sessions, and assistance with forming study groups.

Mathematics Center

Dung Duong, Assistant Director
718-246-6317

HOURS: Monday – Thursday: 10 a.m. – 7 p.m.
Friday: 10 a.m. – 5 p.m.
Saturday: 10 a.m. – 3 p.m.

The Mathematics Center, located in room M – 1105, offers students the opportunity to develop basic mathematics skills required for mathematics problem solving, as well as logical and analytical thinking by offering the non-credit courses DSM01 and DSM-09. Tutors are available as well as opportunities to learn how to use software in personal computers. The Mathematics Center is a place where all students will be able to enhance their knowledge and understanding of mathematics. All students are able to visit the Mathematics Center to obtain free tutoring. The Mathematics Center provides help and tutoring for all students taking freshman level mathematics for academic credit. The Mathematics Center is not only a place for students with mathematics related problems on specific subjects, it is also a challenging work site for advanced students in all areas of studies where mathematics is involved. The Math Center always welcomes walk-in students. In addition, individual tutors are

available to assist with the use of software applicable to other areas of study – biology, chemistry, physics, pharmacy – offering useful tools for a better analysis and understanding of those disciplines. All students are eligible to participate, either voluntarily or upon instructor referral.

Modern Language Center

Stanley J. Zelinski, III, Associate Dean, Director
Beth D. Meetsma, Assistant Director
718-488-1323

The Modern Language Center offers both intensive and non-intensive English language programs for international students, immigrants and refugees who wish to improve their language skills. Classes are given mornings and evenings, Monday-Thursday, throughout the year; F-1 (student) visas and financial aid are available for qualified students. The Modern Language Center is located on the first floor of the Pratt Building, room 122.

Multimedia Language Laboratory

Peter Kravsky, Associate Director
718-780-4568

Location: LLC-021

The state-of-the-art Multimedia Language Laboratory enables students of foreign languages as well as English as a Second Language (ESL) to improve their language skills at their own pace, either individually or collaboratively, using a full range of interactive language learning software. The Language Laboratory provides a learning environment where

- students can test their comprehension on any items covered in class,
- students can check their understanding of grammar and spelling,
- students can read a variety of material and check their comprehension of vocabulary and content,
- students can practice pronunciation and listening comprehension through viewing and hearing material in the target language.

Testing Center

Andres Marulanda, Director
718-488-1392

Location: Pratt, Suite 110
Hours: Monday – Thursday, 9 a.m. - 6 p.m.
Friday, 9 a.m. - 5 p.m.

The Testing Center is committed to provide a nurturing, informative environment for students taking the LIU Brooklyn Placement Examination or other examinations deemed necessary by the University community. The placement examination is administered on campus or electronically through the Online Writing Assessment. Our Center supports student success by ensuring that entering students are placed in

appropriate English and Mathematics courses. Other examinations administered by the Center include retests and exemption exams such as the Math 10 and language exams, Ability-to-Benefit exams required for some students for financial aid and exams to fulfill the core curriculum Computer Literacy graduation requirement. Support and appropriate arrangements are available for out-of state students or applicants with qualifying disabilities.

The Testing Center works collaboratively with the campus community and supports academic departments by providing testing and proctoring services. The office administers the Teaching and Learning Assessment, the HESI A2 Nursing exam, diagnostic tests including the ASSET and Accuplacer exams, and other professional and certification examinations including the CST, CPT, and CSCS, among others.

Writing Center

Harriet Malinowitz, Director
Lynn Hassan, Associate Director

718-488-1095

Hours: Monday-Thursday: 9 a.m.-8 p.m.

Friday: 9 a.m.-5 p.m.

Saturday: 10 a.m.-4 p.m.

The Writing Center, located in Room H-218, offers one-on-one and small group tutoring to all LIU Brooklyn students. Its mission is to help students become better writers over time. Tutors work with students at all stages of the writing process: understanding an assignment, drafting an essay, learning more effective reading strategies, developing and supporting arguments, and learning how to proofread and edit papers. Students may register for ongoing weekly 50-minute sessions, one-time appointments, or distance tutoring. The Writing Center also serves as an on-campus resource and reference center for writing instruction and, through its Student Writing Group Project, works closely with the Writing Across the Curriculum (WAC) program, offering in-class writing workshops across the disciplines. Students registered at the Writing Center are welcome to use the dual-platform computer lab.

FACILITIES

Steinberg Wellness Center

This 112,000 square foot facility supports the Campus' 18 Division I Athletic teams, provides a state-of-the-art workout facility and swimming pool for the Campus Community, and offers a broad array of health and wellness services to our students, faculty, and administrators, as well as the members of the Brooklyn community at large.

Steinberg Wellness Center features a 2,500 seat arena, which hosts the Campus' Division I basketball and volleyball games, high school athletic events, and a variety of other special events. The fitness center includes state-of-the-art cardio and strength equipment, and a group exercise studio that includes free classes such as Pilates, yoga, hip hop dance, total body conditioning, Salsa, and abs-workout classes. The facility also includes a 25-yard, eight lane swimming pool and a rooftop track and tennis courts.

Steinberg Wellness Center encompasses the Health and Wellness Institute which provides activities and programs that promote good health and wellness behaviors that reduce health disparities and improve the quality of life for members of the Campus community and the community at large. The Health and Wellness Institute houses one of New York City's only state-of-the-art HydroWorx 2000 therapeutic pool, which includes an elevating floor to allow for easy access and varied water levels, an underwater treadmill with speeds up to 8.5 mph, underwater video camera and viewing monitors, body weight-support harness system, adjustable temperature control, and jets that propel water and can be used to resist movement and to challenge a person's balance.

The Harriet Rothkopf Heilbrunn Academic Nursing Center is also located in the cellar level of the Steinberg Wellness Center. The HRH Academic Nursing Center's mission is to reduce health disparities among high-risk populations by providing accessible and affordable, primary, secondary and tertiary prevention activities focusing on risk assessment, education, counseling, and referral for vulnerable, underserved populations in downtown Brooklyn including the students and employees of LIU Brooklyn. The Center provides free health screenings, programs to monitor existing health conditions, Mammogram and HIV testing and counseling and support programs.

Lupus Cooperative of New York

The Lupus Cooperative of New York (LCNY) has a local office at 9 Hanover Place. The LCNY is a program of the SLE Lupus Foundation and its goal is to improve care for people living with

lupus. The LCNY helps in getting people with signs and symptoms of lupus diagnosed, properly treated, and supported both emotionally and practically for daily living with this chronic disease. It offers multilingual information and education about lupus. The LCNY also provides monthly support groups, one-to-one short-term counseling, assistance with accessing public programs and services for people with lupus. In addition, the LCNY help clients with referrals to find doctors and other health professionals and participates in community outreach in order to increase lupus awareness.

Residence Life and Housing

Jordan C. Ross, Interim Director
718-780-6570
email: Jordan.Ross@liu.edu

The Office of Residence Life & Housing is committed to working with students in order to create an environment that supports and compliments the academic mission of the University through community development, student-centered programs, and campus engagement. Residents reside in one of our three residential halls. Richard L. Conolly Hall is a 16-story building of standard, suite, and apartment spaces for freshmen, sophomore, and junior class residents. All Conolly students residing in standard and suites rooms are required to take the compulsory Carte Blanche meal plan. Seniors live in the Hoyt Street Residence Hall. The Hoyt Street Residence Hall has suites and apartment spaces. Fall 2011, graduate students will reside in our new three floor all-apartment residence hall. All residence areas offer free wireless and cable, study lounges, recreation rooms, TV lounges, laundry rooms, 24 hours/day security officers, and dedicated professional and paraprofessional staff. All residential spaces come with an extra-long twin sized bed, desk, desk chair, dresser, micro-fridge, wardrobe unit/closet, AC, and personal digital safe.

Kumble Theater

The Kumble Theater for the Performing Arts at LIU Brooklyn is a dynamic, state-of-the-art performance venue serving one of the most diverse campuses and communities in the country. It is designed to nourish artistic exploration and development by students and other emerging artists while providing the entire community greater access to an exciting range of Broadway-quality, classical and cutting-edge professional performances.

Impeccably crafted for the dramatic and technical demands of dance, music and theatrical productions, this elegant, 320-seat theater provides finely tuned acoustics and top-tier lighting, projection and other electronic capabilities. With a stage featuring a "sprung" floor extending to the seating area, the theater fosters an intimacy

between performers and their audiences.

This extraordinary theater was made possible through the generosity of LIU Trustee Steven J. Kumble. It is part of an ambitious campus renovation that created an extensive performing arts complex also featuring a black box theater, dance studios and a glass-enclosed art gallery. Among other major supporters of the performing arts complex are the EAB/Citigroup Foundation, through LIU Board of Trustees Chair Edward Travagianti, trustees Bruce C. Ratner and Donald H. Elliott, the City of New York and the Independence Community Foundation.

Arnold & Marie Schwartz Gym

The Brooklyn Paramount Theater opened on November 23, 1928. At the time of its opening it was the second largest theater in New York with 4,500 seats. Once considered the most beautiful motion picture theater in the world, it was the first designed theater for movies with sound. Doubling as a concert hall, many famous musicians such as Ella Fitzgerald, Miles Davis, Duke Ellington, Chuck Berry and Buddy Holly all graced the theater with their musical presence.

In 1962, a transformation began to turn the historic Paramount Theater into the Arnold and Marie Schwartz Athletic Center. Though modified into an Athletic Center, all the original decorative detail on the walls and ceiling were preserved. In addition to the preservation of the structure, the world famous Wurlitzer organ is housed and still operational underneath the basketball court. The Arnold and Marie Schwartz Athletic Center became home to the LIU basketball and volleyball squads. Officially opening in 1963, it was the Blackbird's home until the opening of the Wellness, Recreation and Athletic center in 2006.

With the opening of the Wellness, Recreation and Athletic center in 2006, the Paramount Gym has become a multipurpose venue used by the university for events, shows, dinners, classes and intramural sports. Because of its unique history, majestic ceiling and hand carved wall fixture, the gym as become a site that outside businesses and the Brooklyn Community love to use for events.

SERVICES

Department of Information Technology

Mr. George Baroudi, Vice President for Information Technology

Dr. Kamel Lecheheb, Deputy CIO
718-488-1082
<http://it.liu.edu>

Information Technology supports all University systems, including Online Student Applications, PeopleSoft Student portals for Admissions, Integrated Student Financial Services, Registrar, Student Online and Faculty Grading Portals, Human Resources, Benefits and Payroll System, the Enrollment Dashboard System, the ID card System, Audio Visual Services, and the Residential Housing System (RMS). It also provides business process analysis of all administrative units. IT maintains 22,000 internet-capable devices and 850 analog/digital telephones and 750 Cisco IP phones at the LIU Brooklyn network. That includes fiber optic and copper infrastructure throughout the buildings, firewall and security access, and wireless internet access. It provides off-site facilities support to Hanover, Hoyt and Fulton Street residence halls, Health Center, the Steiner Studios at the Navy Yard (Screen Writers Program), Westchester and Rockland campuses. IT also maintains the campus' security camera systems, electronic door locks to all Dorms and most classrooms, cafeteria cash registers, the Kronos Timekeeper for the facilities staff, campus videoconferencing and campus plasma displays, electronic and web signage.

IT Website: <http://it.liu.edu>

IT Help Desk: <http://it.liu.edu/servicedesk>

Phone: 718-488-3300

Email inquiries sent to it@liu.edu or bkln-it@liu.edu are received by all IT staff to ensure quicker response time.

Walk-ins: Room LLC 227

My LIU

My LIU is the University's portal which provides students with convenient access to information about their records. By logging onto <https://my.liu.edu>, students may view the schedule of classes, register for courses, obtain their grades, and requests transcripts. They may also view financial aid awards, billing information, make online payments, accept and decline Federal Loans and Federal College Work Study, and make an appointment to see counselors. For more information, please visit or contact CSI.

Audio Visual Services

Robert Barr, Director
718-488-1348

Audio Visual Services provides the LIU Brooklyn campus with instructional and interactive technologies designed to engage students and enrich the learning experience. AVS also serves to support on-campus activities and special events, such as LIU's Open Houses and Discovery Day, by providing sound and multimedia equipment and tech support. AVS also offers duplication services for the transfer from analog to digital media (i.e., VHS to DVD, Cassette to CD/MP3, etc). Many classrooms and lecture halls are equipped with state-of-the-art technology such as Smart Boards, LCD Projectors and Public Address Systems. Other equipment is available by submitting a request form.

AVS offers the following equipment:

- 32"LCD TVs with DVD/VHS Combo Units
- Multimedia Projection Carts
- Smart Carts
- Overhead Projectors
- 35mm Slide Projectors
- Video Cameras (Mini DV, Hard Disk & FlipCam)
- Digital Still Cameras
- Tripods
- Standing Projection Screens
- CD/Cassette Players
- Digital Voice Recorders
- Microphones
- Smart Room Setups
- Loaner Laptops for use with Smart Boards

Training is available, by appointment, on the use of AV equipment for faculty and students. Please feel free to call, send inquiries to av@brooklyn.liu.edu or stop by and see us in Pratt 325.

Hours: Monday-Thursday, 8 a.m. - 9 p.m. and Friday, 8 a.m. - 5 p.m.

University Health & Medical Services

Ralphnie Edmond, Director
University Health & Medical Services
718-246-6455

VR Small, Director, Student Support Services
175 Willoughby Street (entrance on Fleet Place)
Brooklyn, NY 11201
Office: 718-246-6456
Fax: 718-246-6465

Welcome to University Health and Medical Services (UHMS) your primary resource for healthy living during your college tour. Regardless of your financial situation, we are available to assist you in addressing your health and medical needs. Our mission and motto is "Keeping you well, so you can excel!"

Our strategy of good health begin with our new partnership with The Brooklyn Hospital Center (TBHC), through which we are able to provides an extensive list of valuable services, conveniently located in University Towers, 175 Willoughby Street, Ground Floor (enter on Fleet Place), available from 9 am-5 pm, Monday – Friday. We welcome appointments and walk-ins and offer quick and easy referrals to specialists. In addition, funds are never collected on site and most of our cost-effective services are covered by your student insurance policy.

This one-stop model places preventive services and emergency care at your fingertips, with the quality of care you desire and deserve. We are continually upgrading and applying the best practices to maintain a friendly, safe, and professional environment ready to meet your health and medical needs. To this end, we recently negotiated a one-price clinical package for new and returning students, which cover all clinical requirements. Make your clinical preparation a smooth and simple process via UHMS.

We are proud of the cultural diversity of our students, which also reflects varying health practices. To this end, your safety is our primary concern, and to ensure the overall health of each student, NYS Public Health Laws, 2165 (MMR Requirements) and 2167 (Meningococcal Meningitis) are strictly enforced. We value your enrollment at LIU Brooklyn and are here to aid you in meeting these requirements. For information about the required policies and procedures, you have four easy options for assistance. At your leisure, 24/7 review our compliance webpage www.liu.edu/brooklyn/uhms/compliance; forward an email to bkln-uhms@liu.edu; speak with a representative at 718-246-6450 or visit our site for a one-on-one experience.

Our goal is to C.H.A.T (Compliance, Health Information, Access to Services and Talent Opportunities) with you daily about available health and wellness programs/services. Like us on Facebook, follow us on twitter and review our blogs around hot health topics. Make the most of all that UHMS has to offer by utilizing our online Resource & Survey Center for up-to-date health and wellness information or get involved with one of our community collaborations, attend an annual health observance or find out how to access free services. Everything we do is aimed at keeping you well so you can excel.

Interested in gaining experience in the health industry, join our extensive team of student workers assigned from work-study, student activities and those participating in our nonpaid student internship. Join the team at UHMS and develop strong viable industry skills in health and medical services while earning your degree.

Psychological Services Center

Seymour Pardo, Director
718-488-1266

At our Psychological Services Center, free and confidential personal counseling is offered to students by supervised doctoral candidates in Clinical Psychology. Students experiencing stress in relation to academic, social or family situations or students who simply feel they are not living up to their full potential for various reasons may benefit from speaking to someone at the Center. Whether stress is interfering with a student's ability to do his/her best at school or is affecting the student's family or social life, talking can help. Except in the rare case of danger to self or other, no one in or outside the university knows who comes to the Center.

The Psychological Services Center is located on the third floor of the Pharmacy Building, right around the corner from the library, in Room L-36 and is open on Mondays and Thursdays 9 a.m. to 4 p.m., Tuesdays 11 a.m. to 4 p.m., and Fridays 10 a.m. to 3 p.m. Students can call to make an appointment or just stop by.

Veteran Services

LIU Brooklyn has a proud and distinguished history of serving its nation's military veterans and active duty service members. Our supportive community of staff and faculty is dedicated to seeing you succeed in your education, your career and your life. To accomplish this mission, LIU Brooklyn provides the resources you need to pursue your education while balancing the demands of life both inside and outside the classroom.

Our Veterans Task Force is a team of professionals from the Offices of Student Development and Retention (OSDR), Admissions, Student Financials, Registrar, Student Support Services, and other key offices ready to help you learn more about benefits, admission requirements, transfer credits, financial aid, academic and career advising, health and wellness counseling, support services, tutoring and student activities. We are here to help you access these services and assist you every step of the way.

For additional information from the Veterans Task Force please call 718-488-1042 or email bkln-OSDR@liu.edu. In addition, our Veterans School Certifying Official, Dawn Martin can be reached at 718-488-1013 or 718-488-1587 or by email: Dawn.Martin@liu.edu.

Alumni Association

Office of Development and Alumni Relations
718-488-1016

The Office of Alumni Relations and Development is dedicated to advancing LIU's mission of Access and Excellence. Guided by the University's strategic priorities, the office nurtures lifelong relationships with alumni, parents, friends, and organizations that result in volunteer engagement and philanthropic support. All students of LIU Brooklyn become members of the Alumni Association upon graduation. There are no dues associated with membership.

Alumni Association benefits include the following:

- Assistance with job placement and career development through the office of Career Services, including access to distance counseling, job listings, interview and résumé workshops, and networking programs.
- Membership at the Wellness, Recreation and Athletic Center (WRAC) for a nominal fee.
- Access to campus facilities, including the library and computer labs with alumni ID card.
- Invitations to LIU Brooklyn special events.
- Subscription to the official LIU Brooklyn Alumni e-newsletter, the E-Bridge.
- Graduate Admissions Preparedness Program (GAPP) Alumni who have held their degree two years or longer can enroll in undergraduate courses tuition free on a space-available basis and with departmental approval. There is a \$200 registration fee per semester and a lifetime maximum of 12 credits.

The Alumni Association encourages all LIU Brooklyn alumni to support the Annual Fund, which provides assistance to LIU students in need through vital financial aid programs.

To obtain an alumni identification card, update your contact information, or to learn more about benefits and volunteer opportunities, please contact the Office of Development and Alumni Relations at 718-488-1016 or email alumni@brooklyn.liu.edu. The office is located in the Zeckendorf Health Sciences building, room 114.

STUDENT LIFE

Cultural Programs and Exhibitions

With three galleries, LIU Brooklyn presents monthly exhibitions of paintings, sculpture, photographs, prints, and other art forms by emerging and established artists. This thriving and diverse exhibition program, sponsored by the Visual Arts department, reflects LIU Brooklyn's strong commitment to making an array of visual art accessible to both students and the community. Gallery spaces include the Salena Gallery, the Nathan Resnick Showcase Gallery and the Humanities Building Gallery. Located in the lobby of the Kumble Theater, the glass-enclosed, elliptically shaped Humanities Gallery showcases unique presentations of projects and installation, many of which could not be displayed anywhere else.

International Students' Services

Steve A. Chin, Director
 Francesca Freeman-Lujan, Assistant Director
 Phone: 718-488-1216
 Fax: 718-780-4182
 E-mail: steve.chin@liu.edu
 francesca.freeman@liu.edu

The Office of International Students provides special services to students from abroad and responds to their unique needs and problems. It gives information and sees to it that the resources available on campus are being used. It also guides and helps students with immigration and personal matters. All international students are required to contact the Office of International Students as soon as possible after registration. Special orientation programs are given during the Fall and Spring semesters. The office is a source of reference for international students on F-1, M-1 and J-1 visas.

Office of Institutional Advancement & Student Affairs

Kim Williams Clark, Esq.
 Dean of Institutional Advancement & Student Affairs (IASA)
 Phone: 718-488-1514; 718-488-1602; 718-488-1007
 Fax: 718-488-1421
 James Cribbs, Grant Writer
 718-488-1413

Our mission is to create a world-class student centered environment where individuals of all socio-economic backgrounds, diverse ethnicities and gender groups can thrive and develop socially, academically and professionally in their communities and abroad. To this end, the office

collaborates with University Center officials as well as LIU Brooklyn faculty and administrators to attract funding and resources to the campus, help enhance its public image, and facilitate opportunities for developing new programs, services and partnerships for the students it serves.

IASA also oversees all aspects of student affairs activities and direct services to students. It develops partnerships and initiatives that support the education of students and advance the university role as a community resource. It is available to assist faculty and staff with program and grant development, including program/funding source matching, technology based funding searches and capacity building. The main office is located in room M-412.

After School Program - FUN (Family UNiversity)

Guin Ellsworth, FUN After School Director
 718-246-6488
 Charlotte Marchant, School of Education
 718-246-6496

The FUN (Family UNiversity) After School Program has been designed to serve financially eligible LIU Brooklyn students and their children. The FUN Program takes place at the Learning Center for Educators & Families (LCEF), a vital site for inquiry and learning and part of LIU's School of Education. With support from LIU Brooklyn and the School of Education, we are able to provide a safe space for children to engage in community-building, explore their creativity through arts and literacy based activities, receive help with their schoolwork and eat a healthy dinner - leaving parents free to pursue their education.

Student Life and Leadership Development

Karlene Thompson, Director
 M-311, 718-488-1216

LIU Brooklyn, under the guidance of the director of Student Life and Leadership Development, Karlene Jackson Thompson, facilitates the development of students, and hones their personal and organizational leadership skills by providing opportunities for participation in co-curricular, cultural, social, civic, community and wellness programs. The core values of Student Life are Leadership, Integrity, Service, Community, Diversity, Learning, and School Spirit, and we carry out our mission primarily through our oversight of clubs and organizations, leadership training programs, evening programs, civic and community programs and a grant program.

Student Organizations

We guide and assist 30 academic student organizations, 22 social organizations 19 cultural organizations, 6 religious organizations, 11 honor

societies, and 11 Greek organizations with the planning, organizing and implementing of each group's goals and events. In addition, we oversee the student media coalition which is comprised of: WLIU Radio, a state-of-the-art radio station, WLIU DJ Mobile Unit, Seawanhaka Newspaper, Sound Yearbook, and LIU Television.

Leadership Training

Student Life provides yearly leadership training for all students involved in student organizations at our summer Leadership Retreat with our sister campus, LIU Post, as well as workshops for secretaries and treasurers. In addition, we have a Student Leadership Academy which is primarily designed to train students to be leaders on campus. Both trainings are augmented by other stand alone trainings, workshops or webinars on specific issues like goal-setting, time management, diversity, friendship and self-esteem, and alcohol awareness, for example. In addition the Avena Lounge, which we oversee, provides Business Management training each semester to employees of the lounge.

Avena Lounge

The Avena Lounge is a student area complete with opportunities for building Business Management and event planning skills. The lounge has a game room, kitchen for special events, and a wine and beer bar which operates in the evenings from Mondays through Thursdays. Employment opportunities in the lounge also affords students the ability to hone their leadership skills while receiving payment.

Evening Recreation Program

Our dynamic evening recreation program is multi-faceted ranging from basketball, tennis and African/Caribbean Dance to board games, table tennis and X-Box game tournaments. The program also sponsors trips to Rangers and Devils Hockey, Knicks and Nets Basketball, Mets and Yankees Baseball, Jets and Giants Football and bowling.

Civic and Community Program

Student Life co-hosts at least two workshops per year on the American Electoral process and the importance of being registered to vote and being informed about political issues in general. The office registers approximately 400 students per year in our various voter registration drives. In addition, we accommodate students who go to Albany to lobby for student financial aid and other issues pertinent to them.

Additionally, the office sponsors a One Good Deed program which involves a myriad of community service projects that include fundraising for various benefits such as Haitian earthquake relief etc., an alternative Spring Break trip, several blood drives throughout the year, clothing and book drives, holiday celebrations for children in the community and several others.

Grants and Funding

The Office administers the Campus Activity Program Grant, a \$2500.00 award given to students who are members of the Campus

Activities Program and who engage in leadership training, specific co-curricular activities and on-campus job assignments. The Office also offers graduate assistantships to Graduate students interested in student leadership training, event planning, graphic design, business management and Accounting, Media, and Evening Program Management. Also, students who are the executive members of SGA, Seawanhaka, Sound, WLIU Radio and LIU-TV are awarded a percentage of tuition remission which is administered through Student Life.

Entering freshmen and all students in good academic standing are eligible to take part in the extra curricular activities program. Activities as well as academics provide a balanced education and are therefore encouraged. Programs offered through the Office of Student Activities are funded by the proceeds of the Student Activity fee. The distribution of the Student Activity Fee promotes a progressive and student-centered program.

Applications for the Student Leadership Academy, the Campus Activities Program Grant, and the Student Life Graduate Assistantship are available online at the Student Life page of www.liu.edu, as well as in the Student Life office in M-311.

Student Government Association

All enrolled students are members of the Student Government Association (SGA). The executive officers of the SGA, along with the elected representatives from each class, constitute the Student Council. Some of the Council's many duties include allocating of funds to all campus clubs; approving the formation of new organizations; and sponsoring extracurricular programs of intellectual, cultural and social appeal for the student body. In addition to its administrative functions, the Council acts as a liaison between the student body and the faculty and administration. Participation Eligibility: All students, including entering freshmen, in good academic standing and not on probation (academic or disciplinary) are eligible to take part in the extracurricular activities program. Intelligently selected activities that round out a liberally based education are encouraged.

SPECIAL PROGRAMS

University Honors Program

James Clarke, Ph.D., Co-Director;
Cris Gleicher, Co-Director;
718-780-4023; Fax: 718-780-4061
Email: bkln-honors-staff@liu.edu

The University Honors Program is a nationally recognized liberal arts program for undergraduate students in all disciplines at LIU Brooklyn. It is designed to assist students to become critical and independent thinkers. That goal is accomplished through an enriched core curriculum in small, seminar-style liberal arts classes that stress student participation and independent learning. The Honors Program also gives students freedom to design their own majors (see Contract Major below). Within the University, the Honors Program develops an active community of learners, providing opportunities for intellectual support, social interaction, and leadership development.

The University Honors Program is active in national organizations representing Honors students and undergraduate research. University Honors students are encouraged to shape their own education in a variety of ways. They may do so by taking a broad range of courses outside their areas of concentration, by attending national and regional conferences involving undergraduate research, and by participating in national and international Honors Semesters sponsored by the National Collegiate Honors Council.

Application to the Program is separate from that of the university. Interested students should apply directly to the Program. Applications can be obtained online (www.liu.edu/brooklyn/honors) or by contacting the Program advisers.

University Honors Requirements

Freshmen typically take a sequence of literature, history, and philosophy courses organized around a central theme. Completion of this sequence satisfies all WAC requirements outside the major. Honors also offers courses that enable students to complete their social science, fine arts, speech and foreign language requirements in an Honors environment. At the upper-level, Honors offers advanced liberal arts electives representing a range of themes taught by faculty from all departments at the university, including the sciences, humanities, the arts, journalism, and the social sciences. The advanced electives utilize field experience, independent research, and the extraordinary resources of New York City to provide students with a unique learning experience. Topics vary each semester—current and recent offerings can be viewed on the Honors website.

In order to graduate with Honors, students must be in good standing with the Program and must complete the Honors Freshman sequence, other

Honors equivalents for core courses, and at least three Honors Advanced Electives. Transfer students who have already satisfied their core liberal arts requirements may graduate with Honors by completing four Honors Advanced Electives. Students must also achieve a cumulative grade point average of 3.0 or higher by the time of graduation.

Program Model

Honors requires students to take the humanities and social science core courses in their major for which there is an Honors equivalent offered by the program. Beyond the core requirements, Honors students must take three Honors Advanced Electives (9 credits) or, for students transferring into Honors who have already completed the non-Honors core, four Honors Advanced Electives (12 credits). All Honors requirements are built into the requirements of any given major; Honors does not require that students take additional credits to graduate.

Contract Major

If a major is not offered by the University, an Honors student may design his/her own major in consultation with his/her Honors adviser and the appropriate faculty. Students interested in a contract major must be in good standing with the Program and will need the permission of the Honors Director and the approval of the appropriate faculty and the relevant Dean. Applications will not be accepted until students have completed at least 32 credits. Interested students should contact their Honors adviser immediately. Contract majors in the past have included degrees in Bio-psychology, International Relations, and Public Relations.

Honors Independent Study

University Honors students in good standing may register for independent study. Prior agreement from a faculty mentor and approval of the Honors Director and the Dean of Richard L. Conolly College are required. Independent study may satisfy up to six credits of Honors Advanced Elective requirements.

Distinction in Honors

Any final project for an Honors Advanced Elective may be expanded, under the guidance of a faculty mentor, into a substantial paper. Review of the paper by the faculty mentor and presentation at a year-end Honors symposium are required to achieve Distinction in Honors at graduation. Interested students should contact their Honors adviser.

Bridge Programs

James Clarke and Cris Gleicher, Co-Directors
718-780-4023

Housed within the University Honors Program, the Summer Bridge Project offers qualified high school juniors an opportunity to experience college while still attending high school. High school juniors with averages of 79 or higher (C+ average) are eligible to apply. Students accepted to the Summer Bridge Project participate in an

interdisciplinary summer program designed to help prepare them for college. Successful completion of the summer project allows students to participate in the Senior Bridge Program, which permits high school seniors to take up to two introductory-level college courses on a tuition-waived basis. Laboratory fees and book costs are not covered by the program. For more information on the Summer Bridge Project and an application, contact the program directors.

Outreach Programs

Liberty Partnerships Program (LPP) History

The Liberty Partnership Program (LPP) was established in 1988 under Section 612, Subdivision 6 of the Education Law to address the significant dropout rate among New York's youth. The legislation stated, "The failure of many young New Yorkers to complete their secondary education limits their opportunity for a life of fulfillment, presents them from advancing into postsecondary education and hinders the state's efforts to provide a well-trained workforce for business and industry in New York." LPP at Long Island University Brooklyn (LIU Brooklyn) is one of 40 programs funded by the New York State Education Department.

LPP at LIU Brooklyn

LPP at LIU Brooklyn is a college readiness program for New York City high school students. LPP coordinates an after-school, Saturday and summer program. Programming is comprised of SAT Prep, tutoring, mentoring, discussion groups, and field trips. In addition, LPP has established dynamic partnerships with the Bedford Stuyvesant YMCA, the American Association of Blacks in Energy, the Summer Energy Academy and several departments on the campus of LIU Brooklyn, including the Arnold & Marie Schwartz College of Pharmacy and Health Sciences.

Programming

The after-school and Saturday program will begin in late September and conclude in early June. The summer program will begin in early July and conclude in late August. Programming for after-school is scheduled Monday-Thursday, from 3pm to 6pm. Programming for Saturday sessions is scheduled from 10am to 2pm. Programming for summer sessions is scheduled Tuesday-Thursday, from 10am to 3pm.

Contact Us

LIU Brooklyn
1 University Plaza Room M422
Brooklyn, NY 11201
718-488-3399
Email: roland.robinson@liu.edu

S.T.E.P. (Science Technology Entry Program)

Oswaldo Cabrera, Assistant Dean;
718-488-1397

Now in its 26th year the Science Technology Entry Program (STEP), a program funded by the New York State Department of Education, is designed to increase the number of historically underrepresented and economically disadvantaged students prepare to enter college and to improve their participation rate in mathematics, science, technology, health related fields and licensed professions. The LIU Brooklyn STEP Program has formed partnerships with local high schools throughout Brooklyn; the program currently serves 250 students a year. Students in grades from 7–12 are eligible to participate.

Goals of the STEP Program

1. The first goal is to motivate and to prepare minority young men and women
2. The second goal is to introduce students to science, mathematics and technology in a context that demonstrates their impact and relevance to environmental and social issues as well as to literature.
3. The third goal of the program is to assist students in achieving academic and career aspirations while addressing the needs of a diverse population.

STEP Offers

- **Student tutors:** We tutor students in the areas of PSAT and SAT preparation, math, science and computer science.
- **Counseling:** We have counselors who provide academic and supportive services in order to help students prepare for college.
- **Academic enrichment activities:** We provide 20 weeks of enrichment in PSAT and SAT preparation, math science and computer science. During the summer, we offer an intensive enrichment program.
- **College tours:** We offer college tours to universities and colleges throughout the Northeast region; including upstate New York, Virginia, Washington, D.C. and other Metropolitan areas.

Jumpstart Program

Scott Jeffers, Director;
718-780-4355
E-mail: Scott.Jeffers@liu.edu

The Jumpstart Program is a part-time community service program for full-time students on work-study. This federally funded Americorps Program helps students develop teaching, leadership and professional skills. The mission is to engage young people to work towards the day every child in America enters school prepared to succeed. Jumpstart students are paired with a preschool child and work one-on-one in a local Head Start or day-care center to build a foundation in beginning reading, writing and socialization skills. They also work on a team with other college students to lead afterschool enrichment programs, and receive both pre-service and ongoing training in early childhood education to equip them to work with children, peers, teachers and families.

Smart Scholars Early College High School (ECHS) Program

Project Director: Tyron Vereen
718-488-1955
Principal Investigator: Gladys Palma de Schrynemakers
718-488-3405
e-mail: gschryne@liu.edu

The LIU/Boys & Girls High School College Academy provides students with a unique opportunity to become part of a learning community. Participating students, while still in high school, can seamlessly enter a college environment that stresses learning, achievement, and persistence. Through in-school mentoring sessions and weekend and summer college-readiness programs, students will be able to address their academic and collective learning needs more effectively and thereby graduate high school with a Regents Diploma and at least 20 transferable college credits. Students who enroll in the LIU/Boys & Girls College Academy must not only be prepared to work diligently in a rigorous learning environment, but also persist and succeed over the lifetime of the program. The parents/family members of the students must be equal partners, creating a supportive home environment that assists their children in participating fully in the Academy's many services. Parents and family members must also be equally committed to be fully engaged in the related program of parental activities as outlined by the Academy.

Arthur O. Eve Higher Education Opportunity Program (HEOP)

Okarita Stevens, Diana Voelker,
Co-directors;
718-488-1043

Higher Education Opportunity Program (HEOP) grants are available for entering freshmen and a limited number of transfer students from other EOP, HEOP, and SEEK programs. The Higher Education Opportunity Program is a New York State funded five-year program of study specifically designed for students who are educationally and economically "disadvantaged." Supportive services, including tutorials, academic, personal and career counseling, and a program of developmental courses (for those identified as needing such a program) are available for HEOP students. The program's office is located in Room 410 of the Pratt Building.

HEOP grants are renewable for succeeding years depending on continued announcements of awards from the New York State Education Department to LIU. In addition, the student must maintain a satisfactory academic average, remain in a full-time regular degree-seeking classification, and demonstrate continued progress toward a degree.

In order to be eligible for benefits under HEOP,

a student must

1. Be both economically and educationally "disadvantaged" according to the guidelines of HEOP;
2. Be a graduate of a high school approved and accredited by the New York State Education Department or have a New York State Equivalency Diploma or an Armed Forces Equivalency Diploma
3. Have potential for the successful completion of a postsecondary program;
4. Be a resident of New York State for 12 months before the date of application; and
5. Apply to the Tuition Assistance Program and the Pell Grant Program.

Students enrolled at LIU Brooklyn in the Higher Education Opportunity Program are admitted under fully matriculated status.

For further information, write Director, Higher Education Opportunity Program, Room P-410, LIU Brooklyn, 1 University Plaza, Brooklyn, NY 11201-5372.

Student Support Services

Diana Voelker, Director
Dr. Joanne Hyppolite, Associate Director
718-488-1044

Student Support Services is a federally funded TRIO program which aims to encourage and assist students who are traditionally under-represented (first generation, low income) in postsecondary education, as well as provide qualified students with disabilities with appropriate academic accommodations and support needed to ensure equal access, in the preparation for, entry to, and completion of a post secondary degree.

The Office of Student Support Services provides opportunities for academic development with the aim of increasing the retention and graduation rates of its students. This is done by:

- Pairing all registered students with an education specialist who will guide and work with them for the duration of their academic career
- Ensuring that all students receive academic tutoring and instruction in areas such as reading, writing, math and science
- Routinely monitoring the academic progress of its students
- Identifying current and potential problem areas, devise and implement interventions and make appropriate referrals
- Acting as a liaison for students with disabilities
- Improving financial and economic literacy

In order to receive accommodations under the Americans with Disabilities Act a current or incoming student must:

- have a physical or mental impairment which substantially limits any major life activity
 - have a record of such an impairment
 - be regarded as having such an impairment
- Students who wish to receive accommodations must self identify to the Office of Student Support Services.

For additional information please contact our office at the number above or visit our website www.liu.edu/Brooklyn/StudentLife/SSS.

CSTEP

Dr. Gladys Palma de Schrynemakers, Program Director
Metcalfe Hall Room 301
718-488-3405
gschryne@liu.edu

The Collegiate Science and Technology Entry program (CSTEP) at LIU Brooklyn has two major goals that the campus believes will strengthen and support the educational progress, research potential, and career development of program participants. Accomplishing the first goal to recruit and retain under-represented minority and economically disadvantaged men and women into post-secondary education will present program participants with a rigorous science education that will prepare them for entry into careers in the licensed professions. When achieved, the second goal of the CSTEP effort will assist students in achieving their academic and career aspirations, thus building the numbers of minorities in the licensed professions.

The LIU Brooklyn CSTEP effort includes a pre-freshman experience, a series of intensive campus based courses and seminars, technology enhanced preparatory classes for the GRE, MCAT and LAST, career preparedness events, and internship and research opportunities. Students in the program will receive academic reinforcement in small group settings, utilizing pedagogies that make use of and accommodate various learning styles. The program's academic coordinator will also offer students' academic and career guidance in individual and group settings. Moreover, students will participate in science and research seminars led by professionals who can serve as role models. In more formal settings, students will be taught the basic elements of scientific research inquiry and the modes of scientific writing while they undertake guided research experiences.

HONOR SOCIETIES

Alpha Lambda Delta

The LIU Brooklyn chapter of Alpha Lambda Delta was installed September 1995 as the only New York City chapter of this National Freshman Honor Society. It is open to students of all majors with 24 to 30 core credits and a minimum grade point average of 3.5. Grants to outstanding members in the sophomore and graduating years are available. Chapter leaders attend national training conferences. All inductees are lifetime members.

Alpha Chi

The New York Sigma chapter of Alpha Chi, a member of the Association of College Honor Societies, is a national college honor scholarship society that accepts juniors from all majors with a minimum grade point average of 3.75 and graduating seniors from all majors with a minimum grade point average of 3.65. Members are eligible for scholarships applicable to graduate and professional study, for participation in national conferences and for other awards. The total number elected may not exceed 10 percent of any graduating class. All inductees are lifetime members. (Former members of Optimates are honorary members of Alpha Chi.)

Departmental Honor Societies

Biology

Alpha Epsilon Delta

The premedical and pre-dental honor society founded in 1928 as the Lancet Society became on May 4, 1957, the New York Delta Chapter of Alpha Epsilon Delta, a national premedical honor society. Its purpose is to encourage high standards of scholarship in premedical and allied studies, to stimulate an appreciation of the fields of education in the study of medicine, and to bind together similarly interested students. Requirements for membership include classification as a junior or a senior and a 3.0 grade point average overall and in science.

Phi Sigma Society

The Biology honor society, organized in 1928 as Anaphy, was the first science society at the University. On April 27, 1957, Anaphy became Beta Gamma Chapter of Phi Sigma Society, an international Biology honor society. Its purpose is to promote interest in research in the biological sciences. Undergraduate candidates for membership must have a 3.00 grade point average in Biology for four semesters or a 4.00 grade point average in Biology for two semesters, in addition to a 3.00 overall grade point average. Graduate students in Biology are eligible for membership.

Business

Sigma Beta Delta

In 1999, the LIU chapter of Sigma Beta Delta,

the International honor society in business, management, and administration was established. Membership is the highest national recognition a business student can receive at a college or university with a chapter. Sigma Beta Delta encourages and recognizes scholarship and achievement among students of the School of Business, Public Administration and Information Sciences. To be eligible for membership, students must rank in the upper 20 percent of their junior, senior, or master's class, must attain a minimum 3.65 cumulative grade point average, and must be invited to membership by the faculty officers of the chapter.

Chemistry

Student Affiliate of the American Chemical Society

In 1956 the American Chemical Society granted a charter authorizing the establishment of a student affiliate group of the American Chemical Society at LIU Brooklyn. The purpose of this national society is to encourage high standards of scholarship in Chemistry and allied studies, to stimulate interest in the chemical profession, and to promote association with students of similar interests in neighboring institutions. Requirements for senior membership: 16 credits of Chemistry with a 3.00 grade point average.

Economics

Omicron Delta Epsilon

The Sigma Chapter of Omicron Delta Epsilon (international honors society in Economics) was installed in Spring 1971. Its purpose is to recognize and encourage high standards of scholarship in Economics and allied sciences and stimulate interest in the Economics profession. Election to membership is recognized as the highest academic honor conferred on students of Economics in American universities on both the undergraduate and graduate levels of study. Superior scholarship, particularly in Economics, integrity of character and promise of professional development are requisite factors for election.

English

Sigma Tau Delta

In 1957 the Omicron Zeta Chapter of Sigma Tau Delta, an international national honor society for students of English, was organized at LIU Brooklyn. The purpose of the chapter is to encourage advanced study in literature and writing and to honor outstanding students in the field by election to membership. To become a full member, a student must be an English major who has completed six advanced credits in English at LIU Brooklyn with a 3.00 grade point average in English and an overall grade point average of 2.75 or must be an English major who has completed the required core English courses at LIU Brooklyn with a 3.50 grade point average in English and a 3.00 overall grade point average. Associate membership is open to the following students: (1) non-English majors who have completed six

advanced English credits at LIU Brooklyn with a 3.00 grade point average in English and a 2.75 overall grade point average and (2) students who have completed six credits of basic English at LIU Brooklyn with a 4.00 grade point average and an overall grade point average of 2.75.

History

Phi Alpha Theta

A History honor society was organized in the Fall of 1950. Its purpose was to give History majors an opportunity to learn the techniques of independent research and to acquire skill in oral presentation. In the Spring of 1956 that honor society was admitted as a sister chapter, Epsilon Omega, to Phi Alpha Theta, the interuniversity national honor society for History students. Requirements for membership: 12 credits of History with a 3.00 grade point average and a 3.00 grade point average in two thirds of the remainder of the member's courses.

Journalism

Kappa Tau Alpha

Kappa Tau Alpha is the national honor society founded in 1910 to encourage and recognize scholarship in Journalism. The campus chapter welcomes as members those students who have achieved high academic standing in their major subjects and university-wide studies. No more than 10 percent of the junior and senior Journalism classes may be admitted.

Society of Professional Journalists

Sigma Delta Chi

A chapter of the Society of Professional Journalists, Sigma Delta Chi was established at LIU Brooklyn in 1962. National in scope, SPJ is dedicated to advancing the purposes and ethics of Journalism, as well as to helping members express their aspirations and achieve their career objectives. The current unit works closely with The Deadline Club, an organization of professional media journalists in the New York area. Journalism students are eligible for admission to the society provided they achieve satisfactory grades in their major and sign a pledge indicating intention to practice Journalism as a profession.

Nursing

Lambda Iota Upsilon

In 1999 the Lambda Iota Upsilon Nursing Honor Society was founded at LIU Brooklyn. The purpose of the Lambda Iota Upsilon Honor Society is to recognize nursing excellence, superior achievement, leadership, high professional standards and commitment to the profession of nursing. Membership is open to undergraduate nursing students, graduate nursing students and members of the nursing community who meet the standards and requirements for

membership.

Political Science

Pi Sigma Alpha

The Nu Chapter of the National Political Science Honor Society was chartered to recognize and encourage outstanding candidates who have studied political science. Candidates for membership must be in the upper third of their class and have completed at least three advanced courses in political science with a grade point average of approximately 3.20 in all political science courses taken.

Psychology

Psi Chi

Psi Chi is the national honor society in Psychology. Nine credits in Psychology, or six credits and current registration for three additional credits, are required for membership. Candidates must be in the upper third of their class in Psychology and in the upper half of their class overall.

Social Work

Phi Alpha

The social work honor society, Phi Alpha, fosters a bond among social work students, faculty, and practitioners by promoting excellence in scholarship and service. The local chapter, Iota Chi, accepts applicants who are declared social work majors, have completed a minimum of nine hours of required social work courses, have achieved an overall G.P.A. of 3.0, and have achieved a 3.5 G.P.A. in social work courses.

Speech

Speech-Language-Hearing Society

In 1970 the Epsilon Phi Chapter of Sigma Alpha Eta, the Speech Pathology and Audiology honor society, was established at LIU Brooklyn. It is a local chapter of the National Student Speech-Language-Hearing Association. The purpose of Sigma Alpha Eta is to create and stimulate an interest among students in Speech-Language Pathology and Audiology. Membership is open to all students majoring in Teacher of the Speech and Hearing Handicapped and Teacher of the Bilingual Speech and Hearing Handicapped.

AWARDS

Departmental Awards

Every department makes annual awards to students who have done outstanding academic work or have made significant contributions to campus life (or both).

Special Awards

American Society of Women Accountants' Award

This award is presented to an out-standing woman graduate majoring in Accounting.

Arnold Interracial-Interfaith Award in Memory of Richard Arnold '57, M.D.

This award is made annually to a senior who has done the most to improve interracial and interfaith relations.

Arnold Premedical Science Award in Memory of Richard Arnold '57, M.D.

This memorial award is presented annually to the graduating premedical student with the highest scholarship average.

The Constance Bacile Memorial Award

This award, given annually to a student displaying academic excellence and integrity, was established in memory of Constance Bacile, '31, an active member of the Alumni Association throughout her adult life. She served as campus Director of Student Activities and Foreign Students and as Coordinator of Special Events.

Becker CPA Review Course Award

An award of \$100 is presented to the outstanding senior selected by the Accounting, Taxation and Law Department.

Stanley S. Bergen Jr. Award

This award is presented to the member of each Physician Assistant graduating class with the highest evaluation in clinical work as judged by clinical preceptors.

The Rudy Bruner Award

This award is presented to the member of each Physician Assistant graduating class who best exemplifies outstanding qualities in academic work and clinical activities and who most clearly demonstrates the qualities of a professional physician assistant.

The Sylvia Buch Memorial Service Award

This award is presented in memory of Sylvia Buch, for many years a devoted secretary in the Office of Student Activities, to a graduating senior who has been a member of the Student Government Association and who has rendered

outstanding service to the student body of LIU Brooklyn.

John Burton '35 Molecular Biology Award

This annual award is presented to an outstanding student of Molecular Biology. The prize is intended as an incentive for undergraduates to achieve their potential.

John Burton '35 Science Award

This annual award is presented to an outstanding science student. The prize is intended as an incentive for under-graduates to achieve their potential.

Maren Lockwood Carden Award in Sociology

Given annually in the name of Dr. Maren Lockwood Carden, Professor Emeritus, who taught Sociology in the Department of Sociology-Anthropology for over 20 years, this cash prize is awarded to the graduating Sociology major with highest grade-point average.

The Ira A. Cohen Memorial Award

This award was established in memory of Ira A. Cohen, '65, who served LIU Brooklyn with dedication and enthusiasm, holding positions ranging from Student Government officer to Alumni Association president. It is given annually to one or more students who exhibit qualities of student leadership.

Paula M. Cooper Memorial Award

This award is a University Honors Program Award in memory of Paula M. Cooper, valedictorian in 1984. It is granted to the graduating senior whose personal values and social action illustrate a deep commitment to enlightened citizenship. Nominees are judged for their concern, leadership, application to their lives of that concern, and integration of learning and life.

Cooperative Education Student of the Year Award

This award is presented for outstanding performance and dedication to the principles and ideals of the Cooperative Education Program.

The Mildred L. B. de Barrit International Student Award

This award was established by Leonard Ching, former director of the International Students' program at LIU Brooklyn, in memory of Mildred L. B. de Barrit, former Dean of Women. It is given annually to an international student with an outstanding academic record who has actively participated in campus life.

Mildred L. B. de Barrit Premedical Science Award in Memory of Isaac Apperman, M.D.

This award is conferred annually upon the member of the graduating class recommended by the Pre-Professional Evaluating Committee on the basis of academic achievement and character.

Economics-Mathematics Honor Award

This special Honor Award is given to students who have specialized in Economics-Mathematics.

The Edward Edelman and Susanne Popper-Edelman English Essay Prize

In fond remembrance of Professors Edward Edelman and Susanne Popper-Edelman for their many years of dedication to the English Department and to the teaching of LIU students, the faculty of the English Department gives four annual prizes for outstanding essays written by undergraduates in (1) English composition, (2) core literature courses, (3) advanced English courses and (4) the senior seminar.

Margaret Fuchs Community Health Award

This award is given by the faculty of the School of Nursing to the Senior Nursing student who has demonstrated excellence in Community/Public Health nursing.

Sue Sabia Gillick Award

This award is presented to a member of the School of Nursing graduating class with the highest academic record as judged by faculty.

Gleim CPA Review Award

The Gleim CPA Review Award is given to students majoring in accounting who show great promise in successfully passing the CPA exam and being an asset to the CPA profession.

The Alvin Gruder Memorial Award

The award is made to the senior who has performed outstanding service in the Biology Department and who best exemplifies the principles and ideals which guided the life of Alvin Gruder, '41.

The Michael Hittman & Meryl Singer Award

This award, established in 2000, is presented annually by the B.S.W. Program to a graduating senior who has achieved academic excellence and outstanding service to the community.

The Jacob L. Holtzmann Award

This award, established in 1958, is presented annually by the LIU Law Society to a graduating pre-law senior, admitted to a law school, who has achieved academic distinction at and who has rendered outstanding service to LIU Brooklyn.

The William M. Hudson Memorial Award

This award is presented by the Department of Economics to a senior majoring in Economics whose scholarship and character merit recognition. The award honors the memory of the longtime Chair of the Department, who served also as Dean and Acting President.

The Esther Hyneman Graduate Awards in Poetry and Fiction

The graduate creative writing faculty of the

English Department gives two annual awards, one for fiction and one for poetry, to graduate students in the creative writing program. The awards are named for Professor Emerita Esther Hyneman, in recognition of her creative energy and her many years of dedicated service to the English department.

Kaplan CPA Review Course Award

The Kaplan CPA Review Course Award is given to a selected student at the top of his or her graduate studies who is sitting for the CPA exam. This student will receive a complete CPA Review Course for all four sections of the CPA exam.

Amy and Theodore E. Kruglak Award for Seawanhaka Editor

This award is presented to the editor of Seawanhaka for meritorious service.

Kruglak Fellowship in International News Reporting

This award, endowed in the memory of Theodore E. Kruglak, provides a senior Journalism major with funds to conduct advanced research overseas.

The Waldo John Lombardi Award

This award was established in 2002 by Professor Lombardi upon his retirement from the University, after 43 years of dedicated service in the Economics Department. It honors the memory of his former teachers and colleagues, Professors Herman Klonsky and Bernard Newton. The award is to be given to a deserving student in good standing in the Departments of Economics, History, Philosophy or Psychology at LIU Brooklyn.

The Garrett Mattingly Award

Established in 1963, this award is given to a member of the graduating class whose academic attainment in History or English best emulates the high standard of scholarship set by Professor Garrett Mattingly, Elizabethan scholar and Pulitzer Prize-winning historian, who was for many years a member of the faculty.

New York State Society for Respiratory Therapy (Southeastern Chapter) Award

This award is presented to a graduating student who has achieved outstanding academic standing in Respiratory Therapy.

New York State Society of Certified Public Accountants

This award is presented to the graduating students in the Department of Accounting, Taxation and Law who have demonstrated superior academic excellence.

The Louis and Ann Parascandola Graduate English Award

In honor of his parents, Professor Louis Parascandola gives an annual award to an

outstanding graduate student in any of the English Department's three M.A. tracks: literature, creative writing and the teaching of writing.

The Melvin A. Pasternack Alumni Award

An annual award is presented in memory of Melvin A. Pasternack B.A., '54, M.S., '55, to an outstanding graduating major in theatre in the Communication Studies, Performance Studies and Theatre Department who has demonstrated qualities of leadership and creativity.

Pauline Pennant Memorial Award

The award was established in memory of Pauline Pennant, an outstanding student who graduated from the B.S., M.S./A.P.N. and post-master's F.N.P. certification programs in the School of Nursing. The award is given to the graduating M.S./N.P. student with the highest academic average.

The Phi Sigma Award

A certificate is given to the senior who shows the greatest promise of research ability in Biology.

The Marion Pincar Award

The Marion Pincar Award is named in honor of a former bursar of LIU who served LIU Brooklyn from 1974 to 1992 and who was a friend and mentor to all who knew her. The award is given annually to two deserving students in the School of Business, Public Administration and Information Sciences.

Physical Education Award

This award is given annually to a graduating senior majoring in Physical Education for outstanding achievement, scholarship and moral integrity.

George Polk Student Award

This award, established in 1957, is presented to the senior who, by way of personal integrity, dedication to the highest journalistic standards, and exceptional achievement in formal studies and extra-curricular activities, most effectively encourages university-wide respect for Journalism as a discipline and career.

The John Schultz Award for Outstanding Service

A monetary award from the Media Arts Department is presented by the Alumni Office in the memory of John Schultz, '93, whose creativity, loyalty and professionalism continue to be a great example to students who give consistent and unstinting service to their fellow Media Arts students.

The School of Business Advisory Board Award

The School of Business Advisory Board Award was established in 2007. The recipient is chosen based on his or her academic excellence, community service and commitment to the School of Business.

The Irene Sell Award for Interest in Nursing Issues

This award is given to a graduating senior in the School of Nursing who has demonstrated a special interest in professional and health care issues.

The Semper Vigilante Alumnae Award

This award is given annually to a woman of the graduating class with a good scholastic record who, in a wide range of student activities, has shown good character, initiative and qualities of leadership.

The Leon Sinder Prize in Anthropology

Given annually in the name of the founder of the department, this cash prize is awarded to the graduating Anthropology major with the highest grade-point average.

The Robert D. Spector Award for Academic Excellence

This award is presented by the Media Arts Department in the name of Dr. Robert D. Spector B.A., '48, founding member of the Media Arts Department, noted scholar and teacher, and longtime Coordinator of the Division of Communications, Visual and Performing Arts. It is given to the graduating Media Arts major who has consistently performed well both academically and creatively during his or her career at LIU Brooklyn.

Edna K. and Jacob S. Spiro Law Award

This award, established in 1966, is presented annually to an outstanding prelaw major going on to law school, who has demonstrated academic excellence and contributed to the enrichment of university life.

The Wall Street Journal Award

This award, consisting of a bronze medal embedded in a block of Lucite™, is presented annually to a graduating senior majoring in Business who has shown the greatest scholastic development.

Max Wolff Memorial Award for Humaneness, a Gentle Spirit and a Sense of Outrage

Trained and experienced in the law, classical logic, Greek, sociology and education, Professor Max Wolff embodied the wisdom of the ages. He lent strength and dignity to LIU and brought understanding, courage and scholarship to the Department of Teaching, Learning and Leadership (TLL). This award, established in 1973, is presented annually by the TLL faculty to the senior majoring in TLL who best exemplifies those principles for which Professor Wolff fought and those qualities that defined his life.

Rose Ann Woll '64 Memorial Award

This award is presented annually in the name of Rose Ann Woll, whose love and dedication inspired others. The award is granted to the

graduating Education senior whose scholastic record and university service best exemplifies Ms. Woll's ideals.

The Outstanding Senior Mentor Award

Awarded to volunteers in the Student Mentor Program for a minimum of four semesters of service, for showing outstanding leadership, initiative and creativity.

Alfred DiMaio Award for Outstanding Achievement in Political Science

This award, re-named for former faculty and department chair, Alfred DiMaio in 2007, is presented annually to outstanding students in Political Science.

Kappa Tau Alpha

National Honor Society in Journalism and Mass Communication

Top Scholar Award

Kappa Tau Alpha, National Honor Society in Journalism and Mass Communication

This award is presented to the graduating journalism student with the highest grade-point-average.

Lefferts Brown Award for Excellence in the Field of Digital Audio

This award, from the Media Arts Department, is for excellence in audio production.

Jerry Dantzie Award for Excellence in Photography

The Jerry Dantzie Award for Excellence in Photography will be presented to the graduating senior in the Visual Arts Department who has demonstrated the highest level of achievement technically and creatively in the art of photography as seen through the life and work of the former faculty member and distinguished American photographer and photojournalist in whose memory it has been established.

Melvin A. Pasternack '54 Alumni Award

This award is presented annually in memory of Melvin A. Pasternack B.A. '54, M.S. '55, to an outstanding graduating senior in the Department of Communication Studies, Performance Studies and Theatre who has demonstrated qualities of leadership and creativity in the area of Theatre.

CPAexcel CPA Review Course Award

This award is a full scholarship to the CPAexcel CPA Review Course.

The School of Business Distinguished Financial Student Award

This award is presented annually to our most distinguished undergraduate finance student who has shown the greatest scholastic development. The recipient is chosen based on his or her academic achievement, attitude, individual growth and potential. The student will receive a one-year

subscription to the Wall Street Journal.

Sovereign Santander Universities Award

This award was created in 2010 by Sovereign Santander Universities to recognize academic excellence, civic engagement, and leadership in social responsibility among business students.

The Leo Schloss Excellence in Accounting Awards

This award was created in the 1960's to honor Professor Leo Schloss. Professor Schloss started the Accounting Department at LIU in 1944 and also served as associate dean of the School of Business. This award recognizes students who attain excellence in their chosen field of Accounting and/or Taxation in addition to contributing to other professional activities.

Josephine Blumer Outstanding Student Award

Josephine Blumer was the beloved secretary of the Division of Athletic Training, Health and Exercise Science (Formally Sports Sciences) from 1998 until she passed away suddenly in April 2009. This award recognizes a student who excels in their academic and professional pursuits. It is given to a student who demonstrates excellence, caring, and selfless dedication to helping others, these attributes are embodied in the award's namesake.

Esther Siegel Leadership Award

Established by the former Dean of the School of Nursing, this award recognizes a graduating senior for outstanding leadership abilities.

Valerie Michelson Award for Community Service

Established as an alumni award, this award recognizes a graduating senior who provides the most altruistic service to the community.

The Laita Jean-Louis Memorial Award for Perseverance

Established as an alumni award, this award recognizes a graduating senior(s) who persevered through personal hardship and challenges to achieve academic success and graduate from the nursing program.

Eileen Augente Award for Excellence in Clinical Teaching

Service Awards

Service awards are presented annually to students with good scholastic records who have distinguished themselves in student activities.

Athletic Awards

The Department of Athletics presents the following awards annually to student-athletes who possess the qualities and characteristics identified below.

Student-Athletes of the Year

The most prestigious award presented at each year's awards ceremonies, is given to honor the male and female individuals who have made a significant contribution to their sport and the athletics program of LIU Brooklyn.

Leonard Ching Outstanding International Student-Athlete Award

This award is presented to the international student who is a member of a campus collegiate athletic team and whose good academic standing, noteworthy athletic achievement, and positive image in University and community activities reflect positively upon the student's country of origin.

Michelle Antoinette Hamdan Memorial Award

This award is presented as a tribute to an athlete who has exhibited extraordinary strength of character in the face of adversity and is meant to acknowledge the athlete with "the most heart." The award has been established in memory of Michelle Antoinette Hamdan, infant daughter of Said Hamdan, former head athletics trainer at LIU Brooklyn, and his wife, Denise.

Scholar-Athlete of the Year Award

This award is presented to the male and female athletes who have completed athletic eligibility during the current year and have the highest overall grade point average (through the Fall semester). The award is emblematic of the true student-athlete — the person who has successfully balanced athletic and academic responsibilities.

William "Dolly" King Memorial Award

This award is presented annually to one male and one female student athlete in the LIU Brooklyn family who have participated in athletics and who typify the ideas that the late "Dolly" King personified: sportsmanship, enthusiasm, teamwork and leadership, along with academic achievement.

RICHARD L. CONOLLY COLLEGE OF LIBERAL ARTS AND SCIENCES

Richard L. Conolly College of Liberal Arts and Sciences is the hub of undergraduate education at LIU Brooklyn, offering diverse degree programs in the humanities; the sciences; the social sciences; and the communications, visual and performing arts. It provides the general educational foundation for all academic and professional programs at the Campus through its core curriculum. Conolly College also offers an array of dual degrees and comprehensive graduate programs, including the B.S/M.S. in Communication Sciences and Disorders/Speech-Language Pathology and the Ph.D. in Clinical Psychology. Our diverse curriculum allows you to sample a range of academic disciplines, from biology and chemistry to dance and media, from creative writing and philosophy to psychology and history.

Our outstanding faculty members are not only experts in their fields, but also supportive mentors who will help you to become comfortable with the college culture as you hone your critical thinking and communication skills, and strive to reach your full potential.

At the College of Liberal Arts and Sciences, we believe in providing our students with the academic preparation necessary for lifelong learning and in equipping them with the skills, knowledge, and insights to be productive citizens, thus enabling them to participate fully in the complicated world in which we live. It is our task to ensure that all graduates are successful in entering the workforce, thereby elevating their prospects for greater financial independence.

For information, please contact the Dean's Office at 718-488-1003, fax 718-780-4166, or visit the website at www.liu.edu/brooklyn/clas.

David Cohen

Dean

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Administrative Secretary

michell.stanley@liu.edu

Fields of Study

Biochemistry
Biology
Chemistry
Communication Sciences and Disorders
Dance
Economics
English
Fine Arts
Foreign Languages and Literature*
History
Humanities
Journalism
Mathematics
Media Arts
Music (Applied Music, Music Theory, Jazz Studies)*
Philosophy*
Physics**
Political Science
Psychology
Social Science
Sociology/Anthropology
Speech
Theatre**

*Not offered as a major in the evening session.

**No major offered.

The fields of study are grouped as follows:

I. Division of Humanities

- Communication Sciences and Disorders
- English
- Foreign Languages and Literature (French, Italian and Spanish)
- Humanities
- Philosophy
- Minors in Gender Studies and Africana Studies

II. Division of Science

- Biochemistry
- Biology (Medical Technology, Cytotechnology, Nuclear Medicine Technology, and Molecular Biology)
- Chemistry
- Mathematics
- Physics

III. Division of Social Science

- Economics
- History
- Political Science
- Psychology
- Social Science
- Sociology/Anthropology
- Minors in Latin American and Caribbean Studies and Asian Studies

IV. Division of Communications, Visual and Performing Arts

- Journalism and Communication Studies (Speech)
- Performing Arts – Dance, Music and Theatre
- Media Arts
- Visual Arts

Associate Degree

To qualify for an associate degree students must complete at least 64 credits in the liberal arts and sciences with a minimum 2.0 grade-point average.

Students who intend to continue on to a bachelor's degree must reapply for admission. Students interested in an associate degree should seek counseling. For further information, contact the Associate Dean, Richard L. Conolly College.

Pre-Law Advisement

Students considering law school and law as a career should consult as early as possible with the pre-law adviser for help in drawing up their academic programs. Students should also seek advice regarding when to take the law school admission test (LSAT) and when to submit applications to law schools. A brochure on Pre-Law: Undergraduate Preparation at LIU Brooklyn is available. Contact Dr. Stacey Horstmann-Gatti, History Department, Room 8th Floor Humanities Bldg.; 718-488-1057.

Premedical and Preprofessional Evaluating Committee

The Premedical and Preprofessional Evaluating Committee assists students planning to apply to schools of medicine, dentistry, chiropractic, podiatry, osteopathy, optometry and veterinary medicine. Advisers are available in the Science Division to work with students regarding preparing for entrance into these professional schools. Students interested in entering these health professions and who desire a "composite" letter of recommendation from the committee should register with the chair of the committee, preferably in their freshman year. Contact Dr. Edward Donahue, Chemistry Department, Room M-804; 718-488-1664.

Humanities (Division I)

The Humanities Division offers undergraduate degrees in English, foreign languages and literature, and philosophy; and graduate degree programs in English. Each provides a humanistic foundation for almost all professional fields. The Division also offers undergraduate and graduate programs in communication sciences and disorders, which serves to advance this expanding discipline within a culturally and linguistically diverse society. An interdisciplinary major also is available in the humanities, and students can minor in English, Spanish, French, philosophy, gender studies and Africana studies.

Students must fulfill the requirements of the core curriculum, and satisfy the requirements of their major. Of the 128 credits required for graduation, at least 48 must be earned in courses numbered above 100.

Department of Communication Sciences and Disorders

718-488-4122

Professor: Moses (Chairperson)

Professor Emerita: Geller

Associate Professors: Champion, Koenig, Shi, G. Youmans, S. Youmans

Associate Professor Emerita: Walters

Assistant Professor: Tyrone

Clinical Administrators: Dwyer (Clinical Director), Rosas (Assistant Clinical Director)

Adjunct Faculty: 10

The Department of Communication Sciences and Disorders offers a pre-professional undergraduate program in Communication Sciences and Disorders, and a graduate program in Speech-Language Pathology. The Department is committed to advancing the study of human communication sciences and disorders within a culturally and linguistically diverse society.

Intellectual growth is promoted through the recognition and expression of multiple theoretical, cultural, and individual perspectives. The Department of Communication Sciences and Disorders fosters respect for diversity and a commitment to serve individuals with communication problems.

B.S. in Communication Sciences and Disorders

The Department offers a pre-professional program leading to a Bachelor of Science Degree in Communication Sciences and Disorders (CSD). Upon graduation, students will be prepared to begin their graduate studies in Speech-Language Pathology.

Students who wish to major in CSD must make an appointment to see the undergraduate program director for an initial meeting. Students accepted into the department will be assigned a departmental advisor. Thereafter, the student should schedule a meeting with his or her advisor at least once a term. Students must bring an unofficial transcript of their grades to all advisement meetings. The advisor will check grades and prerequisite courses as the student is assigned into specific classes. Advisors will also assist students in developing objectives, exploring career possibilities, and devising a personalized plan of study that will best prepare them for graduate study.

Entry into the major:

All students must meet the following requirements to matriculate as a major in Communication Sciences and Disorders:

1. Acceptance to LIU Brooklyn by the Office of Admissions.
 2. A personal interview with the undergraduate program director.
- Students must bring an unofficial transcript of

their grades to this interview.

- Entry into the program is contingent upon recommendation by program director.
3. A minimum cumulative grade point average (G.P.A.) of 2.75 G.P.A.

Academic Standing

The program in Communication Sciences and Disorders is a pre-professional program in Speech-Language Pathology. This is a very competitive profession. There are many students competing for admission into graduate school, and graduate programs in the greater New York area accept a limited number of students each year. A graduate degree in Speech-Language Pathology is necessary in order to qualify for professional certification and licensure: the Certificate of Clinical Competence from the American Speech-Language Hearing Association and the New York State License in Speech-Language Pathology. In order to ensure your success, we have established the following academic standards within the Department of Communication Sciences and Disorders at LIU Brooklyn:

1. Students must attend all class meetings and be in class on time. Consistent absences or lateness will affect students' final grades.
2. The following sequence is prerequisite to advanced coursework:
 - SPE 100: Voice and Diction
 - SLP 100: Culture, Communication and Language I
 - SLP 104: Articulatory Phonetics
 - SLP 113: Anatomy & Physiological Bases of Speech and Language I
 - SLP 125: Culture, Communication and Language II
 - SLP 133: Speech Science I: Acoustic Phonetics
 - SLP 213: Anatomy & Physiological Bases of Speech and Language II
 - SLP 231: Language Acquisition Across the Lifespan I: The Early Years
 - SLP 233: Speech Science II: Research Methods and Acoustic Applications
3. Students must achieve a B- or higher in these courses to continue in the major. Students may repeat a course no more than once. Students must complete foundation and intermediate courses before taking advanced courses. Students are required to honor all course pre-requisites and receive acceptable grades to continue in the program. Instructors will not allow students to remain in a class for which prerequisite coursework has not been taken.
4. It is the responsibility of students to follow the sequence of courses outlined in the undergraduate bulletin.
5. To continue in the major and take advanced 300 and 400 level courses, students must maintain a minimum **overall G.P.A. of 3.0** and achieve and maintain a minimum **G.P.A. of 3.0 across all SLP courses**. Students may receive no more than one grade of C+ or lower in the major (i.e., required courses in Speech-Language Pathology or Psychology). Students who receive a grade of C+

in any course will be strongly encouraged to retake that course. If a student receives 2 or more grades of C+, the Academic Standing Committee will review his or her academic record and determine whether he or she will be permitted to continue in the major.

6. All students are assigned a faculty advisor. Students doing C+ or below work in any course in their major at midterm must see their advisor at once (well before the end of the term).
7. Students are expected to maintain high standards of ethical conduct and integrity. Any student who violates these standards will be asked to leave the major.
8. Students who are having difficulty managing the requirements of the program will be directed to appropriate counseling and academic support services by their departmental advisors, and recommendations will be recorded in the student's file. Students are expected to follow up on all faculty recommendations. Students can also contact the Academic Advisement Center themselves: 718-488-1042.
9. Students who do not maintain required academic standing as outlined above will be referred to the Departmental Committee on Academic Standing. This committee may recommend dismissal from the CSD major. Grievance procedures are those followed by the University.
10. Students should be aware that while they may graduate with a minimum overall G.P.A. of 3.0 in major and minimum SLP G.P.A. of 3.0, most graduate programs in SLP have higher G.P.A. admissions requirements. Therefore, students should strive to earn higher grades than those stipulated above.

Clinical Observation (SLP 410 and 411)

All majors must complete Clinical Observation as part of SLP 410 and 411. As part of these courses, students spend time observing professional speech-language pathologists and audiologists, and obtain a minimum of 12.5 observation hours in each course. Students are expected to uphold all dress codes, attendance requirements, and standards of professional conduct set both by their observation sites and by the program in Communication Sciences and Disorders at LIU Brooklyn.

National Student Speech Language Hearing Association (NSSLHA)

NSSLHA is the pre-professional national organization for master's candidates and undergraduate students interested in the study of normal and disordered human communication behavior. The Department of Communication Sciences and Disorders at LIU Brooklyn has established a Speech-Language-Hearing Society as a local chapter of the NSSLHA. All speech majors are encouraged to apply for membership.

The Speech-Language-Hearing Society will serve as a forum for discussion of issues both in the Speech Pathology program at LIU and in the field itself. It will also serve as a network between

students, faculty and practitioners.

Any student desiring membership into the Speech-Language-Hearing Society should register with the Recording Secretary before a general meeting. NSSLHA application forms can also be obtained from the Recording Secretary or in the department office.

B.S., Communication Sciences & Disorders

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

Following five (5) courses are required:

PSY 107 Developmental Psychology I 3.00

PSY 108 Developmental Psychology II 3.00

PSY 110 Abnormal Psychology 3.00

SPE 100 Voice and Diction 3.00

TAL 251 Students with Special Needs 3.00

One (1) of the following is required:

MTH 100 Introductory Statistics 3.00

PSY 150 Statistics in Psychology 3.00

Major Requirements

Following thirteen (13) courses must be taken:

SLP 100 Culture Communication and Language I 3.00

SLP 104 Phonetics 4.00

SLP 113 Anatomical and Physiological Bases for Speech and Language I 3.00

SLP 125 Culture Communication and Language II 3.00

SLP 133 Speech Science I 3.00

SLP 213 Anatomical and Physiological Bases for Speech and Language I 3.00

SLP 231 Language Acquisition Across the Lifespan I: The Early Years 3.00

SLP 233 Speech Science II 3.00

SLP 321 Audiology I - Hearing Science 3.00

SLP 331 Language Acquisition Across the Lifespan II: School Age Adolescence, and the Later Years 3.00

SLP 410 Introduction to Communication Disorders I 4.00

SLP 411 Introduction to Communication Disorders II 4.00

SLP 421 Audiology II - Aural Rehabilitation 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 42 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Minimum Major G.P.A.: 3.00

Minimum Cumulative G.P.A.: 2.75

B.S./M.S. in Communication Sciences and Disorders/Speech Language Pathology

Only entering freshmen may apply to the B.S./M.S. program. Students admitted to this program will have the opportunity to make a smooth transition from undergraduate pre-professional studies to graduate professional studies. Students who remain in good academic standing are guaranteed an uninterrupted continuation into their graduate studies ultimately earning a B.S. in Communication Sciences and Disorders and an M.S. in Speech-Language Pathology. Although students begin taking graduate courses in the senior year, students requiring proficiency and skills courses may have a lengthened course of study.

Admission to the B.S./M.S. program

Entering freshmen (Fall admission only)

Students who have demonstrated exceptional academic performance in high school may be admitted into the B.S./M.S. program. Admission to

the B.S./M.S. program does not guarantee automatic progression into the M.S. portion of the degree (600 level or higher courses). Students must meet specific competency standards at the end of their freshman and sophomore years in order to continue in the program. Only students who have a minimum cumulative 3.75 GPA overall in required SLP courses by the end of the Spring semester of their sophomore year will be allowed to continue in the B.S./M.S. program.

Admission Criteria

Admission to the B.S./M.S. program is competitive and requires:

- A minimum high school G.P.A. of 3.2.
- Completion of a high school program in liberal arts and sciences to include 4 units of English, 3 of Math and 2 of Science (Biology and Physics).
- Satisfactory interview
- Demonstration of English writing proficiency

Admissions Procedures

- Applicants will be required to submit:
 - A completed application
 - Three academic letters of recommendation
 - A personal statement
- The CSD Admissions Committee will review applications. Those applicants meeting the above criteria may be invited to a personal interview and must demonstrate English writing proficiency.

Academic Standing

- In order to continue in the B.S./M.S. program, students must achieve a minimum grade of B+ in the following foundation courses:
 - SPE 100: Voice and Diction
 - SLP 100: Culture, Communication and Language I
 - SLP 104: Phonetics
 - SLP 113: Anatomy & Physiological Bases of Speech and Language I
 - SLP 125: Culture, Communication and Language II
 - SLP 133: Speech Science I
- All students must maintain a 3.5 average with no grades lower than "B" in math, science, psychology and advanced SLP courses.
- Students who receive a grade lower than a "B" in any course must retake that course.
- Students may not retake more than one SLP course. If a student receives more than 1 grade below "B", the Academic Standing Committee will review his or her academic record and determine whether he or she will be permitted to continue in the B.S./M.S. program.
- Students leaving the B.S./M.S. program may continue in the B.S. degree program in CSD as long as they meet the requirements for that program.

B.S. / M.S., Communications Sciences & Disorders

Graduation Requirements

Students must satisfy the Placement, Proficiency,

Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

Following five (5) courses are required:

PSY 107 Developmental Psychology I 3.00

PSY 108 Developmental Psychology II 3.00

PSY 110 Abnormal Psychology 3.00

SPE 100 Voice and Diction 3.00

TAL 251 Students with Special Needs 3.00

One (1) of the following is required:

MTH 100 Introductory Statistics 3.00

PSY 150 Statistics in Psychology 3.00

Major Requirements

The B.S./M.S. Degree consists of two equal parts; the B.S. pre-requisites are listed in the first section below (SLP 100-600) and the M.S. foundation, and higher level requirements are listed second (SLP 600-644). The B.S./M.S. Degree gives students flexibility in choosing advanced electives.

UNDERGRADUATE: Following thirteen (13) courses required:

SLP 100 Culture Communication and Language I 3.00

SLP 104 Phonetics 4.00

SLP 113 Anatomical and Physiological Bases for Speech and Language I 3.00

SLP 125 Culture Communication and Language II 3.00

SLP 133 Speech Science I 3.00

SLP	213	Anatomical and Physiological Bases for Speech and Language I	3.00
SLP	231	Language Acquisition Across the Lifespan I: The Early Years	3.00
SLP	233	Speech Science II	3.00
SLP	321	Audiology I - Hearing Science	3.00
SLP	331	Language Acquisition Across the Lifespan II: School Age Adolescence, and the Later Years	3.00
SLP	410	Introduction to Communication Disorders I	4.00
SLP	411	Introduction to Communication Disorders II	4.00
SLP	421	Audiology II - Aural Rehabilitation	3.00

GRADUATE: Required Foundation courses:

SLP	601	Introduction to Research in Speech-Language Pathology	3.00
SLP	602	Advanced Language Acquisition	3.00
SLP	603	Bilingual/Multicultural Foundations I: Communication and Language Learning in Bilingual/Multicultural	3.00
SLP	606	Advanced Neuroanatomy for Speech-Language Pathology	3.00
SLP	608	Seminar in Speech-Language Pathology	1.00
SLP	620	Comparative Phonology and Phonological Disorders	3.00

Higher Level Courses (minimum 39 credits):

SLP	604	Bilingual/Multicultural Foundations II: Assessment and Intervention: Methods & Materials	3.00
SLP	605	Diagnostic Process	3.00
SLP	607	Clinical Audiology	3.00
SLP	609	Speech Science and Instrumentation	3.00
SLP	621	Fluency Disorders	3.00
SLP	622	Voice Disorders	3.00
SLP	626	Dysphagia	3.00

SLP	627	Motor Speech	3.00
SLP	630	Topics In Communication Disorders	3.00
SLP	640	Language Disorders in Children	3.00
SLP	641	Aphasia and Adult Neurogenic Disorders	3.00
SLP	642	Speech-Language-Hearing Services for Language-Learning Disabilities	3.00
SLP	644	Speech-Language-Hearing Services in Multicultural/Multilingual School Settings	3.00
SLP	720	Independent Study- Research on Disorders of Speech	1.00

Practicum sequence - minimum 9 credits

required:

SLP	610A	Clinical Practicum: Intro to Treatment of Speech-Language and Hearing Disorders	2.00
SLP	610B	Clinical Practicum: Intro to Treatment of Speech-Language and Hearing Disorders	2.00
SLP	610C	Clinical Practicum: Intro to Treatment of Speech-Language and Hearing Disorders	1.00
SLP	611A	Intermediate Clinical Practicum in the Treatment of Speech-Language and Hearing Disorders	1.00
SLP	611B	Intermediate Practicum in the Treatment of Speech-Language and Hearing Disorders/Monolingual.	1.00
SLP	611C	Intermediate Practicum in a School Setting/Bilingual	1.00
SLP	612A	Advanced Clinical Practicum: Assessment and Treatment Speech-Language and Hearing Disorders	1.00
SLP	613A	Extended Advanced Clinical Practicum	1.00
SLP	614A	Diagnostic Practicum: Children	1.00
SLP	614B	Diagnostic Practicum: Adults	1.00

SLP	614C	Extended Diagnostic: Practicum	1.00
SLP	615A	Audiology Practicum	1.00
SLP	616	Clinical Observation	1.00

Credit and G.P.A. Requirements

Minimum Total Credits: 182 credits

Minimum Total Liberal Arts and Sciences Credits:
64 credits

Minimum Total Undergraduate Major Credits: 42
credits

Minimum Total Graduate Major Credits: 64
credits

Minimum Credits Above 100 Level Courses: 48
credits

Ancillary Requirement: see above

Minimum Major G.P.A.: 3.75

Minimum Cumulative G.P.A.: 3.5

Communication Sciences and Disorders Courses

SLP 100 Culture Communication and Language I

This is the first part of a two-semester course sequence designed for students of Communication Sciences and Disorders. Its broad aims are to introduce students to the structured nature of human linguistic communication and how language varies depending on communication mode (speech, writing, sign). This course will focus specifically on analyzing linguistic structure across phonological, morphological, syntactic, and discourse levels. These analysis techniques will be used to compare and contrast structural factors across languages.

Pre-requisite of SPE 3 is required.

Credits: 3

All Sessions

SLP 104 Phonetics

This course is comprised of lecture and laboratory components. It provides students with a strong foundation in the processes of speech articulation and comprehensive training in the transcription of speech using the International Phonetic Alphabet (IPA). Students study basic anatomical and physiological bases of speech production and relationship between phonetics to areas of linguistic science (especially socio-linguistics, dialectology, and phonology). Attention is given to dialectal variations in American English and to dialects of speakers of English as a Second Language. Students engage in extensive transcription of Standard English, dialectal forms, child speech, and disordered speech. Independent guided transcription exercises required.

Pre-requisites of SPE 3 and SPE 100 are required.

Credits: 4

Every Fall and Spring

SLP 113 Anatomical and Physiological Bases for Speech and Language I

This is the first part of a two-semester course sequence offering in-depth analysis of the anatomical and physiological bases for speech and language functions. Anatomy and physiology provide the framework for understanding complex human communication processes. This course includes an introduction to communication systems. Specific emphasis is placed on the respiratory, phonatory, resonatory, articulatory, and auditory systems.

Pre-requisite of SPE 3 is required.

Credits: 3

Every Fall and Spring

SLP 125 Culture Communication and Language II

This is the second part of a two-semester course sequence designed for students of Communication Sciences and Disorders. Its broad aims are to explore, in detail, the nature of human linguistic communication, and the extent to which linguistic

behavior varies across speakers and communities.

This course covers attitudes about language and the ways in which language expresses and is influenced by different linguistic communities and cultures.

Students will consider cases of language variation and change and will compare and contrast structural factors across dialects.

Pre-requisites of SLP 100 and SLP 104 are required.

Credits: 3

Every Spring

SLP 126 American Sign Language I

The purpose of this course is to provide basic instruction in American Sign Language (ASL) within a cultural context. Students will learn receptive and expressive vocabulary, grammar and finger spelling via a functional approach. An overview of the history, values, and social norms of the Deaf community will be provided. Linguistic structure of ASL will be introduced and cultural behaviors will be explored.

Credits: 3

Annually

SLP 127 American Sign Language II

ASL II is a continuation of ASL I with more advanced ASL instruction within a cultural context. This course will continue to develop students' receptive and expressive language skills via a functional, conversational approach. More advanced linguistic and grammatical features will be introduced, e.g., vocabulary, finger-spelling, use of space, directionality, classifiers, body shifting, and listing. Deaf culture will be further explored, including beliefs, behaviors, and activities in which Deaf individuals engage, i.e., social, literate and artistic activities. Prerequisites: ASL I or instructor permission.

Credits: 3

Every Fall and Spring

SLP 133 Speech Science I

This is the first part of a two-semester course sequence in Speech Science for students of Communication Sciences and Disorders. Speech Science I covers basic physical principles of acoustics and sound transmission, the relationships between speech articulation and acoustics, and the acoustical properties of individual speech sounds, prosody, and voice quality. Speech Science forms the link between articulatory phonetics and speech perception, it has wide application in speech technology.

Pre-requisites of SLP 104 and SLP 113 are required.

Credits: 3

Every Fall and Spring

SLP 213 Anatomical and Physiological Bases for Speech and Language I

This course is the second in a two-semester sequence designed to provide a foundation in anatomy and physiology related to speech and linguistic processes. This second semester focuses on the anatomy and physiology of the nervous system, with special emphasis on the structures and

functions required for normal speech production, swallowing, speech perception, linguistic processing, and communicative behavior.

Pre-requisite of SLP 113 is required.

Credits: 3

All Sessions

SLP 231 Language Acquisition Across the Lifespan I: The Early Years

This is the first part of a two-semester course sequence addressing language acquisition across the life span. This course examines language development in children of diverse cultural backgrounds, from birth through early childhood. Universals and variations across specific cultures (e.g., African-American, Latino, Asian) are examined. The developing pragmatic, syntactic, semantic and phonological components of language are explored in the context of cognitive, perceptual, affective and social development. Language acquisition as a precursor to the development of literacy is stressed. Bilingual first language acquisition will be introduced.

Pre-requisites of SLP 100, SLP 104 and SLP 125 are required.

Credits: 3

Every Fall and Spring

SLP 233 Speech Science II

This is the second of a two-semester course sequence in Speech Science for students of Communication Sciences and Disorders. It is meant to provide an appreciation of the complexity of speech production and perception via extensive experience in analyzing acoustic signals. Recent and classical studies in the fields of phonetics, sociolinguistics, and speech pathology are examined to demonstrate how acoustic measures can provide insight into the characteristics of normal, developing, and disordered speech across languages. Experimental design and procedures are discussed throughout the semester, and students will design and carry out individual research projects as part of the course.

Pre-requisite of SLP 133 is required.

Credits: 3

Every Fall and Spring

SLP 331 Language Acquisition Across the Lifespan II: School Age Adolescence, and the Later Years

This is the second part of a two-semester course sequence addressing language acquisition across the lifespan. This course examines the language development of children of diverse backgrounds from early school-age through adolescence. Universals and variations across specific cultures (e.g., African-American, Hispanic, Asian) are examined. The developing pragmatic, syntactic, semantic and phonological components of language are explored in the context of cognitive, perceptual, affective and social development. The relationship between language, learning and literacy will be stressed.

The pre-requisite of SLP 231 is required.

Credits: 3

Every Spring

SLP 410 Introduction to Communication

Disorders I

This is the first part of a two-semester course sequence in Communication Disorders across lifespan. This course will present an overview of typical processes related to communication and swallowing as a foundation for the study of the major categories of communication and swallowing disabilities. The etiology and symptomatology of communication disorders are examined with particular attention to disorders of language, articulation/phonology, and fluency. Assessment and treatment goals and procedures will be explored. Students will become familiar with the current research through reading the various professional journals. Twenty-five hours of clinical observation are required.

The pre-requisite of SLP 331 is required.

Credits: 4

Every Fall and Spring

SLP 411 Introduction to Communication

Disorders II

This is the second part of a two-semester course sequence in Communication Disorders across the life span. This course examines the etiology and symptomatology of communication and swallowing disorders with a special emphasis on organic and neurogenic problems. Culturally and linguistically appropriate assessment and treatment goals and procedures are explored. Students become familiar with the current research through reading the various professional journals. Twenty-five hours of clinical observation are required.

The pre-requisite of SLP 410 is required.

Credits: 4

Every Spring

SLP 421 Audiology II - Aural Rehabilitation

This course provides an understanding of the psychosocial impact of hearing loss, with an emphasis on impaired speech perception. It also discusses the principles and ongoing development of various approaches to management of hearing loss, including amplification and other sensory prostheses, manual communications, and rehabilitative therapies.

The pre-requisite of SLP 321 is required.

Credits: 3

Every Fall, Spring and Summer

English Department

University Professor Hagedorn
 Professors Allen, Bennett, Dilworth, Haynes, Malinowitz, Matz, Mutnick, Parascandola, Pattison, Schweizer, Warsh
 Professors Emeriti Bernard, Braid, Henning, Hullot-Kentor, Hyneman, Kleinberg, Silverstein, Templeton, Zilversmit
 Associate Professors Gilles, High, Horrigan, Killoran, McCrary, McGarrity, Peele, Stephens, Swaminathan (Chair),
 Associate Professor Emerita, Li
 Assistant Professor Bokor
 Instructors Antinori, Sohn
 Adjunct Professor Berminger (Undergraduate Advisor), Boutwell (Graduate Advisor)
 Adjunct Associate Professor Hassan
 Adjunct Faculty: 20

The English Department offers a wide range of courses to meet the needs of a diverse student body. Beginning in the Writing Program, our courses provide training in textual analysis, interpretive skills and writing proficiency, skills that are crucial to success in college and beyond — as well as to the exercise of democracy and global citizenship. Our sophomore literature courses survey both Western traditions and the non-Western literatures of Africa, Asia and Latin America. In required core classes and degree programs, our emphasis is always on writing as a creative and rhetorical act and on the analysis of texts in historical, critical, and cultural contexts.

In addition to the English Department Writing Program and the surveys of literature in English required in the Humanities core curriculum, the Department undergraduate and graduate programs provide a selection of courses in American, British and world literature, as well as courses in gender studies, creative writing, rhetoric and ethnic studies. The Department also offers nontraditional courses (numbered above 200) that vary from semester to semester.

Candidates for the B.A. in English concentrate in literature, creative writing, or writing and rhetoric. The undergraduate program features coursework in cultural criticism, literary analysis, the essay, rhetoric and professional writing. The rigorous study of literary and cultural texts — from the canon and from traditions historically excluded from academic study — is at the center of our work.

B.A. in English

B.A., English

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits
Social Sciences	
History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	6 credits
Science and Mathematics	
Mathematics	3 - 4 credits
Sciences (BIO, CHM, PHY)	10 credits
Communication, Visual & Performing Arts	
Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	3 credits

English Distribution Requirement

To satisfy this requirement, the student must complete two courses numbered 100 or above in one of the following subjects: Speech Language Pathology, Foreign Languages, Philosophy, Humanities, Economics, History, Political Science, Psychology, Sociology, Anthropology, Social Work. Note: This requirement may also be satisfied by completing a second major or a minor in any subject (whether on the above list or not).

Major Requirements

Literature Concentration Requirements

Must complete the following six courses:

ENG 128	Early British Literatures	3.00
ENG 129	Later British Literatures	3.00
ENG 158	Early Literatures of the United States	3.00
ENG 159	Literatures of the United States since 1865	3.00
ENG 169	Non-Western or Post-Colonial Literature	3.00
ENG 190	Senior Seminar in Literature	3.00

The student must complete an additional four English courses numbered above 100. One must be in creative writing (164, 165, 166, 167, or 168). One must be in writing and rhetoric (126, 163, 168, 171, 172, 173, 174, or 175). The remaining two may be from any concentration. These courses should be chosen in consultation with the English Department's Undergraduate Advisor.

Writing and Rhetoric Concentration Requirements

Must complete the following three courses:

ENG 171	Introduction to Classical Rhetoric	3.00
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ENG 172	Introduction to Contemporary Rhetorical Theory	3.00
ENG 192	Senior Seminar in Writing and Rhetoric	3.00

Must complete three courses from the following.

ENG 163, ENG 168, 173, ENG 174, and ENG 175 may be taken twice for credit by English majors concentrating in Writing & Rhetoric. ENG 126 and JOU 119 are the same course; English majors should register for ENG 126.

ENG 126	News Writing	3.00
ENG 163	Explorations in Non-Fiction Writing	3.00
ENG 168	Creative Non-Fiction Workshop	3.00
ENG 173	Writing in the Community	3.00
ENG 174	Teaching Writing	3.00
ENG 175	Writing for the Professions	3.00
JOU 119	News Writing	3.00
JOU 150	Workshop in the Essay	3.00

Must complete one creative writing course from 164, 165, 166, 167, or 168.

No one course can satisfy two different requirements.

Must complete two courses from the following.

ENG 128	Early British Literatures	3.00
ENG 129	Later British Literatures	3.00
ENG 158	Early Literatures of the United States	3.00
ENG 159	Literatures of the United States since 1865	3.00
ENG 169	Non-Western or Post-Colonial Literature	3.00

The student must complete one additional literature course. Any course from the following may be used to satisfy this requirement.

ENG 119	Masterpieces of World Literature	3.00
ENG 128	Early British Literatures	3.00
ENG 129	Later British Literatures	3.00
ENG 137	Shakespeare	3.00
ENG 140	Major Authors	3.00
ENG 150	Studies in Ethnic Literature	3.00
ENG 158	Early Literatures of the United States	3.00
ENG 159	Literatures of the United States since 1865	3.00

ENG 169 Non-Western or Post-Colonial Literature 3.00

ENG 170 Literary Periods and Movements 3.00

ENG 180 Genre Studies 3.00

Any ENG course above 200 may also be used in the above section. Of the above, only 140, 150, 170, and 180 may be taken twice for credit.

Creative Writing Concentration

Requirements

Must complete the following two courses.

ENG 164 Explorations in Creative Writing 3.00

ENG 191 Senior Seminar in Creative Writing 3.00

Must complete four courses from the following.

Note: Each of these courses may be taken twice for credit by English majors concentrating in Creative Writing.

ENG 165 Poetry Workshop 3.00

ENG 166 Fiction Workshop 3.00

ENG 167 Playwriting Workshop 3.00

ENG 168 Creative Non-Fiction Workshop 3.00

The student must complete one course in writing and rhetoric from 126, 163, 168, 171, 172, 173, 174, or 175.

Must complete three literature courses as follows:

Literature Requirement 1

The student must complete at least one course from the following.

ENG 129 Later British Literatures 3.00

ENG 159 Literatures of the United States since 1865 3.00

Literature Requirement 2

The student's remaining credits in literature may be satisfied by any of the following courses. Note: The total number of credits required from the following will depend on how the student satisfied Literature Requirement 1 above.

ENG 119 Masterpieces of World Literature 3.00

ENG 128 Early British Literatures 3.00

ENG 129 Later British Literatures 3.00

ENG 137 Shakespeare 3.00

ENG 140 Major Authors 3.00

ENG 150 Studies in Ethnic Literature 3.00

ENG 158 Early Literatures of the United States 3.00

ENG 159 Literatures of the United States since 1865 3.00

ENG 169 Non-Western or Post-Colonial Literature 3.00

ENG 170 Literary Periods and Movements 3.00

ENG 180 Genre Studies 3.00

Any ENG course above 200 may also be used in the Literature Requirement 2 section above. Of the above, only 140, 150, 170, and 180 may be taken twice for credit.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in English

Students may minor in English by completing any four ENG courses numbered above 100 for a total of 12 credits.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

English Department Courses

ENG 13 English Composition

English 13 concentrates on improving the student's ability to read carefully and critically and to write basic narrative and expository prose that adheres to the conventions of standard edited English.

Students read and write about a variety of essays, stories and poems, as well as one longer text. Students learn what it means to read and write in an academic context. Editing skills - including the language of basic grammar, syntax, usage, and punctuation - are introduced. This course has an additional fee. Six classroom hours per week. Letter grades and U. Prerequisite: Placement.

Credits: 3

Every Semester

ENG 13X English Composition for Nonnative Speakers

English 13X is a course parallel to English 13 for nonnative speakers who need additional work in English as a Second Language. Like English 13, English 13X meets six hours per week. Letter grades and U. This course has an additional fee. Prerequisite: Placement.

Credits: 3

Every Semester

ENG 14 English Composition

In English 14, students develop their reading, writing and formal rhetorical skills. Not only do students learn to read and write about a variety of texts, they also learn to compose rhetorically sophisticated essays that take into account purpose, context, and audience. Students learn strategies for creating effective written arguments. This course has an additional fee. Six classroom hours per week. Letter grades and U.

To register for ENG 14 one of the following requirements must be satisfied:ENG 13 or placement exam;or score of 450 or higher in the Verbal/Reading SAT exam;or score of 450 or higher in Writing SAT exam;or score of 23 or higher on the ACT Assessment.

Credits: 3

Every Semester

ENG 14X English Composition for Nonnative Speakers

English 14X is a course parallel to English 14 for nonnative speakers who need additional work in English as a Second Language. Like English 14, English 14X meets six hours per week. Letter grades and U. This course has an additional fee.

The pre-requisite of ENG 13X or the placement exam is required.

Credits: 3

Every Semester

ENG 16 English Composition

English 16 seeks to initiate a dialogue among students that leads them to write with more than their own "personal" position in mind: the readings

and classroom discussions give the sense that they are entering an ongoing conversation of consequence. To this end, students in English 16 are required to integrate the thoughts and words of other writers into their own essays. Both in relation to their own experience and to a text or set of texts, student writers in English 16 learn how to articulate and develop a sophisticated argument within a specific rhetorical situation. Three classroom hours per week. Part of Core requirement.

To register for ENG 16 one of the following requirements must be satisfied:ENG 14 or placement exam;or score of 550 or higher in the Verbal/Reading SAT exam;or score 550 higher in Writing SAT exam;or score of 25 or higher on the ACT Assessment.

Credits: 3

Every Semester

ENG 16X English Composition for Nonnative Speakers

English 16X is a course parallel to English 16 for nonnative speakers who needs additional work in English as a Second Language. Three hours per week. Letter grades and U. This course has an additional fee.

The pre-requisite of ENG 14X or the placement exam is required.

Credits: 3

Every Semester

ENG 61 European Literatures I

An examination of significant works of literature from Ancient Greece and Rome and Medieval and Renaissance Italy, France, Germany and England. Intensive readings from epics, sacred books, poems, plays and tales - arranged chronologically or thematically. All texts read in English.

Pre-requisite of ENG 16 is required.

Credits: 3

Every Semester

ENG 62 European Literatures II

An examination of significant works of European literature, from the 18th Century to the present. Intensive readings from a wide representation of texts - novels, poems, plays and essays - arranged chronologically or thematically. All texts read in English.

Pre-requisite of ENG 16 is required.

Credits: 3

Every Semester

ENG 63 American Literatures

A survey of the literatures and traditions of the United States from Colonial times to the present, with attention paid to the larger context of literary traditions across all the Americas - North America, the Caribbean, Latin America. Arranged chronologically or thematically. All texts read in English.

Pre-requisite of ENG 16 is required.

Credits: 3

Every Semester

ENG 64 Non-Western Literatures

Drawing primarily from the literatures of Africa and Asia, each section focuses on at least two geographical areas, such as Western Africa, China, India, Japan, Southeast Asia or the Pacific Islands. Broad sweeps of time may be covered or specific periods of high cultural achievements such as the Tang Dynasty, Medieval Japan or West Africa before the European invasion may be highlighted. Topics for individual sections will appear in the Schedule of Classes. All texts read in English.

Pre-requisite of ENG 16 is required.

Credits: 3

Every Semester

ENG 102 History of Literary Theory

Readings survey the history of literary theory from Plato to the present. A wide variety of critical approaches are discussed, including Classicism, Neo-Classicism, Romanticism, Marxism, New Criticism, Structuralism, Psychoanalytic Criticism, Feminism, Queer Theory, Post-Structuralism, Ethnic Studies, New Historicism, and Cultural Studies. Subjects differ from semester to semester. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 104 Introduction to Creative Writing

An introductory creative writing workshop. Students begin to learn and experiment with the art of writing in various genres, such as poetry, fiction and play-writing. Although readings are included, emphasis is on class discussion of student manuscripts and individual conferences with the instructor.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 119 Masterpieces of World Literature

Intensive reading and study of selected masterpieces of world literature. Texts and course focus will change from semester to semester. Possible texts include The Iliad, The Dream of the Red Chamber, The Divine Comedy, and Sundiata. Authors studied range from Sophocles and Dante to Moliere, Goethe, and Morrison.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 126 News Writing

Introduction to writing news stories, which are studied for their organization, form, style and effectiveness as expression and communication. Students will learn to apply Associated Press style and write leads. In newsroom laboratory sessions,

students apply professional standards to frequent assignments. (English majors should register for this course as ENG 126 rather than JOU 119).

Pre-requisite of ENG 16 is required.

Credits: 3

Cross-Listings: ENG 126, JOU 119

Every Semester

ENG 128 Early British Literatures

An exploration of significant texts and topics in British literature from its beginnings to 1800. The course focuses on a period of at least two hundred years and includes texts by Chaucer and Shakespeare. Themes vary from semester to semester and may include topics such as the Monstrous and the Fantastic, Sexuality and Gender in Premodern Literature, or Heroic Identities before 1800.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Fall

ENG 129 Later British Literatures

An exploration of significant texts and topics in British literature between 1800 and the present. Themes vary from semester to semester and may include topics such as the Age of Revolution, Writing Empire, or (Re)Writing Religion in Modern British Literature.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Spring

ENG 137 Shakespeare

The greatness of Shakespeare explored through the intensive study of selected plays and poems.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 140 Major Authors

A concentrated study of one or two authors or a writer and a major school - American or British. Subjects might include Chaucer, Jonson, Donne, Wordsworth, Coleridge, Austen, Woolf and the Bloomsbury Circle, Faulkner, Hemingway, Wright and the Chicago School, or Morrison. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 150 Studies in Ethnic Literature

An intensive examination of particular ethnic traditions in literature. Subjects differ from semester to semester and may include African-

American literature, Asian-American literature, Jewish literature, Russian literature, or Latino/a literature. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 158 Early Literatures of the United States

An introduction to texts and themes in pre-Civil War American literature. Themes vary from semester to semester. Areas of exploration may include: Examining the Frontier, Slavery and Freedom, American Myths and U.S. Realities.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Fall

ENG 159 Literatures of the United States since 1865

In this course, texts and themes are drawn from American literature from the Civil War to the present. Themes vary from semester to semester and may include: Country and City, Representing the Nation, Literature of a Multicultural United States.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Spring

ENG 160 Gender and Language

An examination of the relationship of gender and sexuality to studies of reading, writing, language use, and language acquisition. Subjects differ from semester to semester. Topics may include language and gender, gender and reading, contemporary masculinities, images of women in literature, lesbian and gay voices, queer theory, and writing about lesbian and gay issues. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 163 Explorations in Nonfiction Writing

A nonfiction workshop in which students explore topics that include the essay, experimental nonfiction, zine writing, and digital storytelling. Emphasis on discussion of student manuscripts and individual conferences with instructor. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 164 Explorations in Creative Writing

A creative writing workshop in which students explore topics in writing including spoken word poetry, experimental fiction, poet's theater, short story writing, and dramatic storytelling. Emphasis on discussion of student manuscripts and presentations and individual conferences with instructor. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 165 Poetry Workshop

An intensive workshop devoted to writing poetry. Students will also read selected poetry from published writers. Class time will be spent critiquing each other's writing and discussing traditional and experimental forms and approaches. May be taken twice for credit only by English majors concentrating in Creative Writing.

The pre-requisites required are two courses from the following: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Fall

ENG 166 Fiction Workshop

An intensive workshop devoted to writing fiction. Students will also read selected fiction by published writers. Class time will be spent critiquing each other's writing and discussing traditional and experimental forms and approaches. May be taken twice for credit only by English majors concentrating in Creative Writing.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Spring

ENG 167 Playwriting Workshop

An intensive workshop devoted to writing plays. Students will also read selected plays from published playwrights. Class time will be spent critiquing each other's writing and discussing traditional and experimental forms and approaches. May be taken twice for credit by English majors concentrating in Creative Writing.

The pre-requisites required are two courses from the following: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 168 Creative Non-Fiction Workshop

An intensive workshop devoted to writing literary essays. Students will also be required to read selected essays by published authors. Class time will be spent critiquing each other's writing and discussing experimental forms and approaches. May be taken twice for credit by English majors concentrating in Creative Writing or English

majors concentrating in Writing & Rhetoric.

The pre-requisites required are two courses from the following: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 169 Non-Western or Post-Colonial Literature

This course focuses on works, in English and in translation, emerging from non-Western cultures, including the cultures of Asia, Africa and South America. Courses in this category span a geographical region and a period of time adequate to address the historical context of the literature.

Themes vary from semester to semester and may include topics such as: Voices of the African Diaspora, Buddhism in Asian Literatures, or Postcolonial Literature and the Atlantic World.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 170 Literary Periods and Movements

A concentrated study of a particular period or movement in literary history. The focus may be on a specific national literature (American or British) or on the theoretical underpinnings of a movement. Topics vary from semester to semester and may include Colonial Encounters, Romanticism, the Victorians, Realism and Naturalism, Modernism, or Post-Modernism. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 171 Introduction to Classical Rhetoric

Readings survey key figures and texts of the rhetorical traditions (Ancient through Enlightenment). Course work emphasizes mastery of the material central to the development of the field of rhetoric.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Fall

ENG 172 Introduction to Contemporary Rhetorical Theory

Readings survey key figures and texts in contemporary rhetorical theory (Nineteenth-century to the present). Course work emphasizes mastery of key rhetorical and theoretical concepts and focuses on how these theories have been influenced by earlier developments and how they have influenced current trends.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Every Spring

ENG 173 Writing in the Community

A writing workshop in which students study the rhetoric and writing of community-based and other advocacy organizations. Topics vary from semester to semester and may include rhetorical analysis of community-based texts and strategies for the production of a range of writing, such as oral histories, grant proposals and pamphlets. May be taken twice for credit by English majors concentrating in Writing and Rhetoric.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 174 Teaching Writing

A seminar in which students survey the history, theories and practices of teaching writing at the high school and college levels. Topics vary from semester to semester and may include the history of writing instruction, composition theories and pedagogies, literacy theories and research, one-to-one conferencing, developing and designing curricula and assignments, and responding to student writing. May be taken twice for credit by English majors concentrating in Writing and Rhetoric.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 175 Writing for the Professions

A writing workshop in which students study rhetorical strategies for professional and technical writing. Topics vary from semester to semester and may include writing grant proposals, reports, news releases, editorials, brochures, technical manuals, Web sites and a range of public documents. May be taken twice by English majors concentrating in Writing and Rhetoric.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

ENG 180 Genre Studies

A study of a particular genre, offering examples from a wide range of literary history. Topics vary from semester to semester and may include autobiography, the graphic novel, or the making of modern poetry. May be taken twice for credit.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 184 Modern Drama

A study of selected nineteenth- and twentieth-century playwrights, focusing on their investigation of contemporary issues and problems.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 187 The Bible as Literature

The study of the Bible (in the King James version) as a work of literature, both for its expressiveness in language and images and its relation to literary forms, including lyric poetry, drama or debate, and narrative. Those features of the Bible that are universal or archetypal in terms of its symbols or imaginative content are discussed, as is the world view implied in the Bible, which is compared with the world views of other civilizations.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

On Occasion

ENG 190 Senior Seminar in Literature

In this capstone course, English majors concentrating in Literature pursue independent research projects in the history of literary studies or critical analysis. Each student develops a substantial research paper and presents it to the seminar. Additional prerequisite: Permission of Department Chair.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair is also required.

Credits: 3

Every Spring

ENG 191 Senior Seminar in Creative Writing

In this capstone course, English majors concentrating in Creative Writing pursue independent writing projects, resulting in a portfolio of poems, fiction, plays or essays. Additional prerequisite: Permission of Department Chair.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair is also required.

Credits: 3

Every Spring

ENG 192 Senior Seminar in Writing and Rhetoric

In this capstone course, English majors concentrating in Writing and Rhetoric apply the rhetorical knowledge and skills they have mastered in their other courses. Each student produces a substantial research paper analyzing a field-related issue or problem through the lens of his or her academic work in writing and rhetoric. May include

a relevant internship. Additional prerequisite: Permission of Department Chair.

Of the following pre-requisites only two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair is also required.

Credits: 3

Every Spring

ENG 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. To be eligible, students must have upper-junior or senior status, a cumulative GPA of 3.00, a GPA of 3.25 in their major subject, the permission of the Chair of the Department, and the permission of the Dean. A total of six credits of Honors Study is the maximum allowed. The student may take only three credits of Honors Study in a single semester.

Of the following pre-requisites only two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair and the Dean is also required.

Credits: 3

On Demand

ENG 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. To be eligible, students must have upper-junior or senior status, a cumulative GPA of 3.00, a GPA of 3.25 in their major subject, the permission of the Chair of the Department, and the permission of the Dean. A total of six credits of Honors Study is the maximum allowed. The student may take only three credits of Honors Study in a single semester.

Of the following pre-requisites only two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair and the Dean is also required.

Credits: 3

On Demand

ENG 197 Independent Study

Independent studies in areas of specialized interest are available. The student may take only three credits of Independent Study in a single semester. Additional pre-requisite: Permission of Department Chair and permission of the Dean.

Of the following pre-requisites only two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair and the Dean is also required.

Credits: 3

On Demand

ENG 198 Independent Study

Independent studies in areas of specialized interest are available. The student may take only three credits of Independent Study in a single semester. Additional pre-requisite: Permission of Department

Chair and permission of the Dean.

Of the following pre-requisites only two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22. Permission from the Departmental Chair and the Dean is also required.

Credits: 3

On Demand

ENG 203 Starting From Paumanok

This one-credit course is coordinated to take advantage of the annual lecture on American literature and culture, "Starting from Paumanok." Named after Walt Whitman's great poem, which invokes the Native American name for Long Island, the Paumanok lecture acknowledges Long Island University's geographic and cultural connection with one of Brooklyn's foremost literary figures. Since this annual event was inaugurated by the English Department in 1983, it has featured such scholars and writers as Ed Bullins, Ann Douglas, Vivian Gornick, Alfred Kazin, Ha Jin, Elizabeth Hardwick, Irving Howe, Nellie McKay, Walter Mosley, Lynn Nottage, Edward Said, Colson Whitehead, and Alison Bechdel. Students taking the course will read works by the visiting lecturer, attend the lecture, and complete a short writing assignment.

Credits: 1

Cross-Listings: ENG 203, HUM 203

Annually

ENG 207 Existence in Black: Black Existentialism in American Literature and Philosophy

Black existentialism is a modern American intellectual tradition that is perhaps best summed up in a single question posed by philosopher Lewis Gordon: What is to be done in a world of nearly a universal sense of superiority to, if not universal hatred of, black folk? Born from the soil of the actual historical experience of blacks, black existentialism stands at the intersection of three distinct philosophical and literary forces: first, the European tradition of existentialism that culminates in the works of Jean Paul Sartre and Simone de Beauvoir; secondly, the work of Afro-Caribbean psychiatrist Frantz Fanon, who first documented the historical constitution of black defiance to black devaluation as a madness or social deviance; finally and importantly black American social thought as represented in the poems, plays, essays and narratives of Frederick Douglass, Alain Locke, W. E. B. DuBois, James Baldwin, Richard Wright, Ralph Ellison, James Weldon Johnson, Ann Petry, Gwendolyn Brooks, Malcolm X and other prominent black writers. A new generation of black American authors has recently stepped forth to synthesize these forces explicitly into a coherent and exciting philosophy of human existence, addressed to thoughtful people everywhere. In this course a professor of literature and a professor of philosophy will collaborate in guiding students on an adventure of reflection, a study of the existential dilemmas that have always confronted black thinkers and writers simply in

virtue of their being black. The object is to gain rich insight into a major concern of both modern literature and modern philosophy: the walls that isolate and separate men and women from one another and alienate them even from themselves. *The pre-requisites of ENG 16 and PHI 61 or PHI 62 or HHP 21 or HHP 22 are required; or permission of the Instructor.*

Credits: 3

Cross-Listings: ENG 207, HUM 180, PHI 180

On Occasion

Department of Foreign Languages and Literature

Professor: Lichtman

Professors Emeriti: Bloch, Brener

Associate Professor: Racz (Chair)

Assistant Professor: Maccotta

Adjunct Faculty: 7

Proficiency in a foreign language or languages places at a student's disposal far more than a coveted job skill that will greatly enhance his/her value in the workplace. In our increasingly multilingual world, the ability to communicate with people from other cultures and from many walks of life infinitely enriches individual experience and holds out the promise of bridging differences that now needlessly divide us. The ability to understand, speak, read and write an acquired language broadens horizons, raises cultural awareness, fosters intellectual inquiry and heightens our capacity to act effectively, ethically and compatibly in everyday global affairs.

The Department of Foreign Languages and Literature offers two-semester sequences of introductory language study in Spanish and French. Students are provided with the tools they need to develop the requisite communicational skills in speaking, listening comprehension, reading and writing while acquiring a sound working knowledge of grammar. Diverse written and aural/oral textbook and workbook assignments are chosen specifically to meet these goals. Students are additionally exposed to the culture and history of the various countries in which the languages are spoken. Onsite language-laboratory facilities and an online component complement and reinforce weekly classroom sessions, helping students perfect their pronunciation and increase their proficiency. Intermediate and upper-level courses run with sufficient enrollment.

Six credits in a foreign language are required of most entering Richard L. Conolly College students as part of the core curriculum. This requirement is satisfied by completing six credits in French, Italian or Spanish 11, 12 or the equivalent. The six credits must be in one language. Students may not take French, Italian or Spanish 12 without successful completion of French, Italian or Spanish 11 or the permission of the chair. Students with knowledge of a foreign language may be exempted. Students so exempted need not take a foreign language as part of the core requirement, but receive no credit. Exemption examinations are given by the Testing Center. For complete information concerning placement/exemption, contact the Department.

B.A. in Modern Languages

Students who wish to earn the **B.A. in Modern Languages** may do so with a concentration in Spanish or in French. A minimum of 24 credit hours in Foreign Languages and Literature courses numbered over 100 is required for the major. Students also may minor in French or Spanish by completing four courses at the 100 level or above in one language.

Majors and minors are encouraged to develop specific career objectives while pursuing undergraduate studies. Departmental advisors will assist students in exploring career possibilities and devising a personalized plan of study that will best prepare them for their career goals.

Students who graduate with a B.A. in Modern Languages (Spanish concentration) may pursue a wide variety of careers with full knowledge of the advantages bilingualism confers. Those who opt to enter the workforce instead of pursuing an advanced degree in languages and literature will find that their proficiency in a second language provides them with a clear edge over their monolingual competitors for jobs in all fields, including education, business, law, medicine, government, law enforcement, performance and the arts. Functional bilingualism is an asset esteemed by all employers, and the ability to speak, read and write competently in Spanish will prove to be an ever-greater asset to job seekers in the 21st century.

B.A., Modern Languages

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

Concentration in Spanish or in French Requirements.

- A minimum of 24 credit hours in Foreign Languages and Literature courses numbered over 100 is required for the major.
- The prerequisite for all advanced courses in French and Spanish is Language 31 or 32, or 50 or 51, or permission of the Department.
- Students may also minor in French, or Spanish by completing four courses at the 100 level or above in one language.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 24 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Modern Languages

A minor in French or Spanish consists of 12 credits at or above the 100 level, chosen in consultation with the department chair.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

French Courses

FRE 11 Introductory French I

Introductory speaking, reading and understanding French with emphasis on contemporary culture.

Credits: 3

Every Fall and Spring

FRE 12 Introductory French II

Introductory speaking, reading and understanding French with emphasis on contemporary culture.

Pre-requisite of FRE 11 is required.

Credits: 3

Every Fall and Spring

FRE 31 Intermediate French

Continued emphasis on speaking, reading, writing and understanding French through modern readings.

Pre-requisite of FRE 12 is required.

Credits: 3

On Demand

FRE 32 Intermediate French

Continued emphasis on speaking, reading, writing and understanding French through modern readings. Prerequisite: French 12 or permission of the Department.

Credits: 3

On Demand

FRE 101 Introduction to French Literature

This course serves as a transition from reading for content on the intermediate level to the critical reading ability required for more advanced courses in French Literature. Introduction to problems of genre, style and aesthetics. Conducted in French.

Credits: 3

On Demand

FRE 102 Introduction to French Literature

This course serves as a transition from reading for content on the intermediate level to the critical reading ability required for more advanced courses in French Literature. Introduction to problems of genre, style and aesthetics. Conducted in French.

Credits: 3

On Demand

FRE 105 History of Contemporary French Civilization

A study of contemporary French civilization with emphasis on patterns of French life and culture viewed against a changing social and intellectual background.

Credits: 3

On Demand

FRE 195 Honors Study

Independent work for superior students in French. Offered under the guidance of a Faculty Member. Permission of the Department and Dean required.

Credits: 3

On Demand

FRE 196 Honors Study

Independent work for superior students in French. Offered under the guidance of a Faculty Member.

Permission of the Department and Dean required.

Credits: 3

On Demand

FRE 197 Independent Study

Independent work for students in French. Offered under the guidance of a Faculty Member.

Permission of the Department and Dean required.

Credits: 3

On Demand

FRE 198 Independent Study

Independent work for students in French. Offered under the guidance of a Faculty Member.

Permission of the Department and Dean required.

Credits: 3

On Demand

Italian Courses

ITL 11 Introductory Italian I

Introductory speaking, reading and understanding Italian with emphasis on contemporary culture.

Credits: 3

Every Fall

ITL 12 Introductory Italian II

Introductory speaking, reading and understanding Italian with emphasis on contemporary culture.

Pre-requisite of ITL 11 is required.

Credits: 3

Every Spring

ITL 31 Intermediate Italian I

Continued emphasis on speaking, reading and understanding Italian through modern readings.

Pre-requisite of ITL 12 is required.

Credits: 3

On Demand

ITL 197 Independent Study

Independent work for students of Italian offered under the guidance of a Faculty Member.

Department permission required.

Credits: 3

On Demand

ITL 198 Independent Study

Independent work for students in Italian offered under the guidance of a Faculty Member.

Department permission required.

Credits: 3

On Demand

Spanish Courses

SPA 11 Introductory Spanish I

Introductory speaking, reading, writing and understanding Spanish.

Credits: 3

Every Fall, Spring and Summer

SPA 12 Introductory Spanish II

Introductory speaking, reading, writing and understanding Spanish. Pre-requisite: SPA 11, HLS 21 or its equivalent.

The pre-requisite of SPA 11 or HLS 21 is required.

Credits: 3

Every Fall, Spring and Summer

SPA 31 Intermediate Spanish

Continued emphasis on speaking, reading, writing and understanding Spanish. Prerequisite: Spanish 12.

Pre-requisite of SPA 12 is required.

Credits: 3

Every Fall

SPA 32 Intermediate Spanish

Continued emphasis on speaking, reading, writing and understanding Spanish. Prerequisite: Spanish 12 or permission of the Department.

Credits: 3

Every Spring

SPA 100 Spanish Conversation

Intensive practice in the spoken language based on contemporary Spanish and Latin American texts and current publications. Placement exam required or permission of the Department.

Credits: 3

On Demand

SPA 101 Readings in Spanish Literature

An introduction to literary movements and genres from the Medieval period to the present.

Conducted in Spanish.

Credits: 3

On Demand

SPA 103 Advanced Conversation and Composition

Intensive oral and written work to develop ease and style in writing and speaking Spanish.

Credits: 3

On Demand

SPA 105 The Hispanic World

A study of the ethnic, social, political and artistic development of the Spanish-speaking world.

Conducted in Spanish.

Credits: 3

On Demand

SPA 119 Modern Spanish Literature Since 1890

Readings, discussions and interpretations of contemporary selections from Spanish drama, poetry, short stories and novels, with emphasis on the generation of 1898 and twentieth-century texts. Conducted in Spanish.

Credits: 3

On Demand

SPA 133 Readings in Spanish-American Literature

Readings of representative works by Spanish-American authors from the Colonial period to the

present. Conducted in Spanish.

Credits: 3

On Demand

SPA 138 The Contemporary Latin American Novel

Reading and discussion of the contemporary novel. Conducted in Spanish.

Credits: 3

On Demand

SPA 139 Outstanding Women Writers of the Spanish-Speaking World

An examination of the works of women writers of the last 50 years in Spain and Spanish America. Poetry, short stories, novels and critical essays of representative writers. Conducted in Spanish.

Credits: 3

On Demand

SPA 140 Literature of Social Protest and Revolution

An examination of the works of writers of social conscience and revolution in Spanish America, beginning with 1910 and the Mexican Revolution and continuing to the present. Conducted in Spanish.

Credits: 3

On Demand

SPA 195 Honors Study

Independent work for students in Spanish under the guidance of a Faculty Member. Permission of the Chair of the Department and the Dean required.

Credits: 3

On Demand

SPA 196 Honors Study

Independent work under the guidance of a Faculty Member. Permission of the Chair of the Department and the Dean required.

Credits: 3

On Demand

SPA 197 Independent Study

Independent work for students in Spanish offered under the guidance of a Faculty member. Department permission required.

Credits: 3

On Demand

SPA 198 Independent Study

Independent work for students in Spanish offered under the guidance of a Faculty Member. Department permission required.

Credits: 3

On Demand

SPA 200 Spanish Translation I

Intensive practice of Spanish-English and English-Spanish translation, using a wide variety of prose texts. Study of the basic theoretical groundwork necessary for translation in general as well as

Spanish-English and English-Spanish translation in particular. Prerequisite: Permission of the Department.

Credits: 3

On Demand

SPA 201 Spanish Translation II

Intensive practice of Spanish-English and English-Spanish translation, using complex prose passages from a variety of discourses. Advanced theoretical readings complement translation assignments. In addition, an original, independent translation project of some length is required. Prerequisite: Permission of the Department.

Credits: 3

On Demand

Humanities

The Humanities Division offers an A.A. in Humanities and an interdisciplinary major leading to a B.A. in Humanities. This flexible B.A. program is intended to serve students who already are established in careers or whose professional goals and personal interests require an interdisciplinary course of study. Students are permitted into the program only with the approval of the coordinator of the Division and, subsequently, must be closely counseled by a faculty member in English, Philosophy or Gender Studies in order to develop a coherent and well-integrated program.

A.A. in Humanities

A.A., Humanities

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

Electives

To be determined by proficiency requirements.

Credit and G.P.A. Requirements

Minimum Total Credits: 64 credits

Minimum Cumulative G.P.A.: 2.0

B.A. in Humanities

B.A., Humanities

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this

Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

Prior to taking 100 level courses as listed below, students must complete English Literature, Foreign Language and Philosophy core requirements.

In consultation with Humanities Division advisor, students must take twelve (12) to fifteen (15) credits from one of the following areas:

- Africana Studies Concentration - Africana Studies courses 100-level or higher
- English Concentration - English courses 100-level or higher
- Foreign Language Concentration - Foreign Language courses 100-level or higher in one language
- Gender Studies Concentration - Gender Studies courses 100-level or higher
- Philosophy Concentration - Philosophy courses 100-level or higher

In consultation with Humanities Division advisor, students must take twelve (12) to fifteen (15) additional credits from the following. These credits must be taken in Humanities Division departments that are outside of the students' concentration area. Credits taken in the area of Art, Music, Dance or Theatre are acceptable.

- Africana Studies courses 100-level or higher
- English courses 100-level or higher
- Foreign Language courses 100-level or higher in one language
- Gender Studies courses 100-level or higher
- Philosophy courses 100-level or higher
- Art courses 100-level or higher
- Dance courses 100-level or higher
- Music courses 100-level or higher
- Theater courses 100-level or higher

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 24-30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Humanities Courses

HUM 101 Women in Culture and Society

Taught with either a US or global focus, this interdisciplinary course explores how social, cultural, and psychological forces shape women's lives. Issues and topics such as women's health, reproductive rights, family, work equity, education, and gender violence will be investigated as students are introduced to the basic concept of feminist history, thought, and practice. Consistent attention will be paid to the differences among women based on race, national identity, class, ethnicity, sexuality, able-bodiedness, and age. Readings are supplemented by films and guest speakers. Fulfills requirements for the Gender Studies minor.

Pre-requisites of ENG 16 and COS 50 are required.

Credits: 3

Every Fall

HUM 102 Theories of Feminism

An attempt to define what feminism is by exploring different analyses of the roots of women's subordination and the strategies that have been proposed for redressing it. Readings from Enlightenment/liberal, Marxist/socialist, existentialist, radical, women-of-color, and postmodern feminists, among others. Fulfills requirements for Gender Studies minor.

Prerequisites: ENG 16 and the Core Seminar.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: HUM 102, PHI 102

Every Spring

HUM 103 Cross-Cultural Perspectives on Gender and Sexuality

An introduction to issues involved in the social and historical construction of gender and sexuality using cross-cultural and interdisciplinary approaches. Topics include the uses and limits of biology in explaining sex/gender differences, varieties of sexual experience, supernumerary genders, hetero-/bi-/homo-sexualities, gender politics and social change, and the intersection of gender, race and class. Fulfills requirement for the Gender Studies minor.

Pre-requisites of ENG 16 and COS 50 are required.

Credits: 3

Every Spring

HUM 104 Gender and Knowledge

What does it mean to know something? Do women arrive at conclusions and solve problems in different ways than men? What makes someone the gender that he or she is? What is the relationship between emotion and reason? Are women more emotional and men more logical? Are men better than women in mathematics and science? Is there such a thing as "feminine intuition"? What is the best way to acquire knowledge? This course will examine, and attempt to provide

answers to these and other questions regarding gender and different types of knowledge. This course examines theories about the relationship of women to knowledge and rationality and examines feminist critiques of traditional views of knowledge. *The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.*

Credits: 3

Cross-Listings: HUM 104, PHI 208

Every Spring

HUM 105 Introduction to Africana Studies

This course introduces the history and culture of African peoples from across the African Diaspora. In this course we will focus mostly on the United States since you are currently studying here; however, we also give a great deal of attention to Africa, the Caribbean, and South America. The course is roughly divided into three units. During the first half of the semester, we will explore historical concerns that have shaped who we are today. Topics include Slavery, Colonialism and the Civil Rights Movement. After setting that foundation, we will then determine how African cultural and intellectual expression has been developed out of various formations and how it continues to thrive in our contemporary setting. Finally, we delve into social dynamics and forces that touch our everyday lives from religion to education, health issues, and gender construction. By the time you complete this semester's work, you should have a greater appreciation for the manner in which black people across the Diaspora have not only been fashioned by modernity but have, in turn, had a great hand in determining humanity's future. In the words of Lani Guinier, black people are often like the "canary in the mine," mapping the dangers and free space for all that lie just ahead. Assignments include a field trip, interview, leading class discussion, midterm and final exam, informal assignments, and community outreach. Required texts are *A Turbulent Voyage*, third ed., Floyd Hayes, ed.; *Africana Studies*, third ed., Mario Azevedo, ed.; *The Wretched of the Earth*, Frantz Fanon; and handouts.

Credits: 3

Every Fall and Spring

HUM 117 Psychology of Women

An examination of the relevance of gender to the experiences of the individual and the overall functioning of society. Theories that come from all major areas of psychology - physiological, comparative, cognitive, developmental, personality - provide insight into the position of women in culture. The primary objective is to use historical, theoretical and comparative information to understand current gender relations.

The pre-requisites of ENG 16 and COS 50 are required.

Credits: 3

Cross-Listings: HUM 117, PSY 117

On Occasion

HUM 126 Gender, Culture and Society

Examines the gendered dynamics of social and cultural relations. Explores how gender is imagined, constructed and lived across a broad spectrum of historical periods, institutions and cultural locations. Special attention is paid to the ways in which "gender" as practice, performance and representation has differed for women and men according to race, class and other divisions. *The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.*

Credits: 3

Cross-Listings: ANT 126, HUM 126, SOC 126 Annually

HUM 177 Women of Color in Cinema

This course will focus on Black women in film from the mid 1930's to the mid 1970's. We will begin with those domestics made famous by Louise Beaver's "Imitation of Life," Hattie McDaniel and Butterfly McQueen's "Gone With the Wind," and Ethel Waters' "Pinky." Though limited by form and content, these "blackresses" brought an enormous amount of talent and dignity to these otherwise stereotypical roles. Yes, they took care of "massa" and "missus" and their "chillen," yet somehow they, like their actual forebears, managed to not only survive, but also to thrive in these roles. We will examine how with the advent of Blaxploitation films of the 1970's, black female roles shifted from mammy to the beautiful and sexy melanin abundant damsel-in-distress waiting to be saved and bedded by the likes of such phallic sounding heroes as Shaft, Super Fly, and Black Gun. In form and function, these roles were little different than their white B movie counterparts, yet unlike the B movie actresses, there was not even the illusion of better roles. Finally, we will discuss how these blaxploitation "babes" evolved to ass-kicking "sistahs" who not only took the Man to task, but also a whole of lot of lame brothers as well. Some of the female pioneers we'll cover are Pam Greer "Foxy Brown," and "Coffee"; Tamara Dobson, and "Cleopatra Jones."

Credits: 3

On Occasion

HUM 180 Existence in Black: Black Existentialism in American Literature and Philosophy

Black existentialism is a modern American intellectual tradition that is perhaps best summed up in a single question posed by philosopher Lewis Gordon: What is to be done in a world of nearly a universal sense of superiority to, if not universal hatred of, black folk? Born from the soil of the actual historical experience of blacks, black existentialism stands at the intersection of three distinct philosophical and literary forces: first, the European tradition of existentialism that culminates in the works of Jean Paul Sartre and Simone de Beauvoir; secondly, the work of Afro-Caribbean psychiatrist Frantz Fanon, who first

documented the historical constitution of black defiance to black devaluation as a madness or social deviance; finally and importantly black American social thought as represented in the poems, plays, essays and narratives of Frederick Douglass, Alain Locke, W. E. B. DuBois, James Baldwin, Richard Wright, Ralph Ellison, James Weldon Johnson, Ann Petry, Gwendolyn Brooks, Malcolm X and other prominent black writers. A new generation of black American authors has recently stepped forth to synthesize these forces explicitly into a coherent and exciting philosophy of human existence, addressed to thoughtful people everywhere. In this course a professor of literature and a professor of philosophy will collaborate in guiding students on an adventure of reflection, a study of the existential dilemmas that have always confronted black thinkers and writers simply in virtue of their being black. The object is to gain rich insight into a major concern of both modern literature and modern philosophy: the walls that isolate and separate men and women from one another and alienate them even from themselves. *The pre-requisites of ENG 16 and PHI 61 or PHI 62 or HHP 21 or HHP 22 are required; or permission of the Instructor.*

Credits: 3

Cross-Listings: ENG 207, HUM 180, PHI 180
On Occasion

HUM 183 Male in America: Black, White, Straight, Gay

Men have ruled empires and dug ditches and landed on the moon. They kill each other and write novels and sometimes speak to God. Sometimes they love each other. They father children. Without the help of a single woman, they fathered our country. But just who are they? This course will explore the American male experience from multiple vantage points in text, film, visual art, and music with an aim at understanding the social, political and aesthetic forces of that half of the population that has for better or worse, shaped our culture. Potential topics include constructions of male identity, the biology of masculinity, and particular expression of race, ethnicity and sexuality.

Credits: 3

Cross-Listings: HUM 183, MA 284
On Occasion

HUM 197 Independent Study

Independent Study is designed to give students the opportunity to do independent work under the supervision of a faculty member. To be eligible for independent study, students must propose a topic in the humanities to a member of the Humanities faculty, and get the approval of the faculty member, Division Coordinator, and Dean. The student and faculty member will negotiate the readings and main project to be completed during the independent study. Usually, but not always, this project takes the form of a long research paper submitted at the end of the semester. Three

credits.

Credits: 1 to 3

On Demand

HUM 198 Independent Study

Independent Study is designed to give students the opportunity to do independent work under the supervision of a faculty member. To be eligible for independent study, students must propose a topic in the humanities to a member of the Humanities faculty, and get the approval of the faculty member, Division Coordinator, and Dean. The student and faculty member will negotiate the readings and main project to be completed during the independent study. Usually, but not always, this project takes the form of a long research paper submitted at the end of the semester.

Credits: 3

On Demand

HUM 203 Starting From Paumanok

This one-credit course is coordinated to take advantage of the annual lecture on American literature and culture, "Starting from Paumanok." Named after Walt Whitman's great poem, which invokes the Native American name for Long Island, the Paumanok lecture acknowledges Long Island University's geographic and cultural connection with one of Brooklyn's foremost literary figures. Since this annual event was inaugurated by the English Department in 1983, it has featured such scholars and writers as Ed Bullins, Ann Douglas, Vivian Gornick, Alfred Kazin, Ha Jin, Elizabeth Hardwick, Irving Howe, Nellie McKay, Walter Mosley, Lynn Nottage, Edward Said, Colson Whitehead, and Alison Bechdel. Students taking the course will read works by the visiting lecturer, attend the lecture, and complete a short writing assignment.

Credits: 1

Cross-Listings: ENG 203, HUM 203
Annually

HUM 210 Women In The Arts

A study of women's contribution to the arts, as well as the ways in which women are portrayed in works of art. Topics include: the history of women artists, feminist art theories, studies of "feminine arts" such as needlework and ceramics, and the activism of women artists, among others.

Pre-requisites of ENG 16 and COS 50 are required.

Credits: 3

On Occasion

Department of Philosophy

Professor: Filonowicz (Co-chair)

Professors: Emeriti: Arp, Bandman, West

Associate Professors: Cuonzo (Co-Chair), Wong

Adjunct Faculty: 11

Philosophy is an ongoing pursuit of intellectual refinement, challenge and discovery, rooted in our natural human curiosity and our wish to exercise good judgment in all that we believe and do.

The philosophy program familiarizes students with the basic concepts at work in every area of intellectual inquiry and provides skills in constructing and evaluating arguments—whatever their subject matter may be. As a critical approach to all academic disciplines, philosophy helps us avoid overspecialization while enabling us to see the discoveries of every other field in a coherent perspective. Philosophy asks “big” questions, concerning the nature of reality, whether God exists, how the mind works, or what makes something beautiful. It expands our intellects and enlarges our feelings in exciting and rewarding ways. A program leading to a Bachelor of Arts degree with a major or minor in philosophy provides not only a thorough grounding in the humanities and liberal arts, but also training in the close reasoning and orderly presentation of ideas required by such professions as law, diplomacy, teaching, public administration, economics, business and the health professions.

The **128-credit B.A. in Philosophy** enables students to acquire skills that make them very attractive to potential employers and professional schools. By majoring or minoring in philosophy, students learn to reason effectively, view problems from multiple perspectives, and argue persuasively in their speech and writing. Although many philosophy majors and minors go on to study in graduate school, law school, medical school or other professional programs after graduation, a good number enter the workforce directly as well. The undergraduate education that philosophy students receive will serve them well in any field. Philosophy majors and minors are urged to develop career objectives while pursuing their undergraduate studies, and double majors are strongly encouraged. Departmental advisors will help students to explore career possibilities and devise personalized plans of study that will best prepare them to achieve their career goals.

As a major or minor in philosophy, you will connect with a small but bright, dedicated group of fellow students and accomplished professors and be invited to philosophy lectures, films and events. And when it is time for you make decisions about your post-graduate future, our dedicated faculty will guide and support you.

Particular strengths of the department include Applied Ethics, the History of Ideas, Social and Political Philosophy, Continental Philosophy, Philosophy of Feminism, and Philosophy of Law, Religion, Art, Language, and Science. Our

department offers Health Care Ethics every semester, as well as innovative electives such as Philosophy of Sex and Love, Black Existentialism, Ethics and Animals, and Philosophy through Film. Many of our courses are cross-listed with other majors and minors, such as Gender Studies, Africana Studies, Asian Studies and Humanities. Our faculty teach every semester in the University Honors Program, and we welcome Honors students to become philosophy majors or minors.

B.A. in Philosophy

B.A., Philosophy

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Philosophy Distribution Requirement

To satisfy this requirement, the student must complete two courses numbered 100 or above in one of the following subject areas:

- Speech Language Pathology
- French
- Spanish
- Italian
- English
- Humanities
- Economics
- History
- Political Science
- Psychology
- Sociology
- Anthropology
- Social Work
- Science
- Art
- Dance

- Journalism
- Media Arts
- Music
- Theatre

Major Requirements

Philosophy majors must complete 24 credits in advanced Philosophy courses numbered 100 or above, including at least 3 credits in Philosophy Honors Study (PHI 195/196)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 24 credits

Minimum Credits Above 100 Level Courses: 48 credits

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Philosophy

To minor in Philosophy, you must complete 12 credits of elective philosophy courses (four elective courses)

Philosophy Courses

PHI 61 Philosophical Explorations I

These courses constitute a yearlong integrated core sequence which investigates logic, ethics, theory of knowledge, and philosophy of art, religion, and science and their importance for understanding and coping with the challenges of modern life. Objectives include the following: to become familiar with the basic concepts and methods of elementary logic and philosophical inquiry while developing intellectual skills useful in every area of life; to become acquainted with the leading traditions of ethical thought and the central problems of contemporary moral philosophy; to share, examine, sharpen and refine our own ethical sensibilities and values; and to gain a sense of the general history of ideas. PHI 61 emphasizes the development of critical reading, writing and discussion skills by means of exercises in informal logic and close study of classic philosophical and religious texts of the ancient world and Middle Ages. PHI 62 continues, with emphasis on understanding the distinctive features of Renaissance, early modern and contemporary scientific, religious and philosophical thought, and the value of humanistic learning.

Credits: 3

Every Fall, Spring and Summer

PHI 62 Philosophical Explorations II

These courses constitute a yearlong integrated core sequence which investigates logic, ethics, theory of knowledge, and philosophy of art, religion, and science and their importance for understanding and coping with the challenges of modern life. Objectives include the following: to become familiar with the basic concepts and methods of elementary logic and philosophical inquiry while developing intellectual skills useful in every area of life; to become acquainted with the leading traditions of ethical thought and the central problems of contemporary moral philosophy; to share, examine, sharpen and refine our own ethical sensibilities and values; and to gain a sense of the general history of ideas. PHI 61 emphasizes the development of critical reading, writing and discussion skills by means of exercises in informal logic and close study of classic philosophical and religious texts of the ancient world and Middle Ages. PHI 62 continues, with emphasis on understanding the distinctive features of Renaissance, early modern and contemporary scientific, religious and philosophical thought, and the value of humanistic learning.

Credits: 3

Every Fall, Spring and Summer

PHI 102 Theories of Feminism

An attempt to define what feminism is by exploring different analyses of the roots of women's subordination and the strategies that have been proposed for redressing it. Readings from

Enlightenment/liberal, Marxist/socialist, existentialist, radical, women-of-color, and postmodern feminists, among others. Fulfills requirements for Gender Studies minor. Prerequisites: ENG 16 and the Core Seminar. *The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.*

Credits: 3

Cross-Listings: HUM 102, PHI 102

Every Spring

PHI 103 Formal Logic

Formal symbolic logic studies the most basic principles of logical reasoning. This course introduces students to the uses of translating natural language arguments into a formal language for logical analysis. Students will learn to use truth tables, truth trees, and give logical proofs to assess the validity of arguments in both sentential and predicate logic.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 104 Moral Philosophy

This course is an introduction to the central issues and theories of moral philosophy, which examines the moral philosophies of Plato, Aristotle, Hobbes, Hume, and Mill, among others. Central questions to be examined include: What, if anything, is the justification of morality? Are there general moral principles that should guide our actions? What is the role of reason, sentiment and experience in moral decision making?

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 105 Health Care Ethics

This seminar explores ethical dimensions of the health care professions, including nursing, medicine, pharmacy, occupational therapy, physical therapy, and others. Students learn to identify problems in the health care system, to analyze these problems from multiple perspectives, and to propose ways of resolving the ethical conflicts encountered. This course emphasizes active learning, small group discussions, peer review and in-class writing.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Every Fall and Spring

PHI 108 Modern Philosophy

A study of the philosophical ideas and methods of modern philosophers in the context of the emergence of science and the resulting challenge to religion. Readings selected from such sources as Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume and Kant.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 110 Belief, Knowledge, and Reality

A study of the nature and limits of human knowledge. Special emphasis is given to the conditions for knowledge: truth, belief, and justification, as well as the relationship of theories of knowledge to metaphysical theories. Topics include: skepticism, relativism, rationalism, empiricism, the debate between internalism and externalism, Gettier problems, theories of justification and truth. Readings selected from Plato, Descartes, Hume, Kant, Quine, Goodman, Putnam, Davidson, Goldman among others. *The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.*

Credits: 3

On Occasion

PHI 113 Free Will and Determinism

A review and evaluation of different positions in the free will versus determinism controversy in the history of philosophy, including logical determinism, religious determinism, hard determinism, compatibilism, indeterminism, agent-causal and self-forming action theories of free will and existentialist theories of freedom, with special attention to their consequences for moral responsibility.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 119 Language, Speech and Thought

A consideration of three topics that have held much philosophical attention in the twentieth century: the nature of language, the actions human beings perform through speech, and the relation of language to thought. An introduction is made to the philosophy of language relevant to the work of psychologists, linguists, educators and others. Topics include types of speech acts, meaning, truth, language acquisition, and the relation of philosophy to the cognitive sciences. Readings selected from such authors as J. L. Austin, John Searle, Ludwig Wittgenstein, Jacques Derrida, Willard Quine, Donald Davidson and Noam Chomsky.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: PHI 119, SPE 119

On Occasion

PHI 126 Philosophy of Science

What is the nature of scientific investigation and scientific discovery? In this course we shall explore the origins of modern scientific method and experimental technique, as well as several issues in contemporary philosophy of science: How is scientific knowledge validated? Are scientific theories literally true descriptions of reality, or are they only instrumentally valid, correct only insofar

as they allow us to predict the results of experiments and control events in the natural world? What is the nature of scientific revolutions? Students will become familiar with key works in science and the philosophy of science, and be encouraged to reflect on science's role in contemporary society and its relation to problems of human values.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 163 Philosophy of Art

A study of how different philosophical traditions have answered such perennial questions as: What is beauty? What is art? How is art to be judged? Can judgments of artistic merit be shown to be true or false? How do works of art themselves achieve philosophical importance by conveying distinctive visions of reality?

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 169 Philosophy of Religion

A course with these objectives: to consider the nature of religious belief and the concepts of truth and meaning in religion; to examine reasons for and against some crucial religious beliefs, such as the existence of God, immortality and freedom of the will; to understand key elements in the major world religions, such as ritual, symbol, myth, conversion, revelation and faith; and to encourage the student to become more thoughtful and articulate about his or her views regarding the meaning of religion for human life. Classical and contemporary works in philosophy and religion are considered.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 171 Philosophy of Law

An examination of the structures and functions of legal systems. Topics include the nature and limits of law, the distinction between positive and natural law, liberty, responsibility, rights, interests, justice, the social contract, property, sovereignty, and crime and punishment. Readings selected from traditional and contemporary sources, with special attention to the history of American civil rights legislation and judicial interpretation.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 172 Philosophy of Mind

A consideration of such central philosophical questions as: What is the relation of the mind to the body? What constitutes personal identity over

time? What is the exact role of beliefs, intentions and desires in human actions? Philosophical theories on the nature of mind, such as dualism, behaviorism, eliminative materialism, and others will be examined.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 174 Continental Philosophy

An exploration of the following: nineteenth-century Existentialism's rejection of the Enlightenment faith in rationality; the Nietzschean critique of Western metaphysics and religion; twentieth-century existentialism's preoccupation with nothingness, contingency, human freedom and death; structuralist interest in "text" and philosophical anthropology; and critiques of allegedly oppressive "discourses" central to Western thought.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 175 Asian Philosophy

An overview of the central spiritual traditions of Asia, including Hinduism, the Theravada, Mahayana, Vajrayana, and Zen schools of Buddhism, Confucianism and Taoism, focusing on their theories of ultimate reality, the self, death, and ethical, social and political obligation.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 176 American Philosophy

A study of American contributions to Western philosophical inquiry. A brief survey of British Idealism and its Oxford and Cambridge critics (Moore, Russell and Ayer) serves as preparation for exploring the development of American Pragmatism in selected works of William James, Charles Sanders Peirce, George Herbert Meade, John Dewey and others. Contemporary American analytical philosophy is also considered in relation to Pragmatism, colonial Puritanism, and the racial, ethnic and political diversity of America's intellectual heritage.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 179 Social and Political Philosophy

A study of the moral aspects of political and social theory and a careful discussion of such classic philosophical topics as freedom, coercion, authority, rights, responsibility and justice. Readings selected from Plato, Aristotle, Hobbes, Locke, Hume, Rousseau, Marx, Dewey, Arendt, Rawls and others. Contemporary economic, social and political problems are considered.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 180 Existence in Black: Black Existentialism in American Literature and Philosophy

Black existentialism is a modern American intellectual tradition that is perhaps best summed up in a single question posed by philosopher Lewis Gordon: What is to be done in a world of nearly a universal sense of superiority to, if not universal hatred of, black folk? Born from the soil of the actual historical experience of blacks, black existentialism stands at the intersection of three distinct philosophical and literary forces: first, the European tradition of existentialism that culminates in the works of Jean Paul Sartre and Simone de Beauvoir; secondly, the work of Afro-Caribbean psychiatrist Frantz Fanon, who first documented the historical constitution of black defiance to black devaluation as a madness or social deviance; finally and importantly black American social thought as represented in the poems, plays, essays and narratives of Frederick Douglass, Alain Locke, W. E. B. DuBois, James Baldwin, Richard Wright, Ralph Ellison, James Weldon Johnson, Ann Petry, Gwendolyn Brooks, Malcolm X and other prominent black writers. A new generation of black American authors has recently stepped forth to synthesize these forces explicitly into a coherent and exciting philosophy of human existence, addressed to thoughtful people everywhere. In this course a professor of literature and a professor of philosophy will collaborate in guiding students on an adventure of reflection, a study of the existential dilemmas that have always confronted black thinkers and writers simply in virtue of their being black. The object is to gain rich insight into a major concern of both modern literature and modern philosophy: the walls that isolate and separate men and women from one another and alienate them even from themselves. *The pre-requisites of ENG 16 and PHI 61 or PHI 62 or HHP 21 or HHP 22 are required; or permission of the Instructor.*

Credits: 3

Cross-Listings: ENG 207, HUM 180, PHI 180

On Occasion

PHI 190 Special Seminar

An intensive study of one or two great philosophers or of a single complex issue in contemporary philosophy. Authors and problems selected vary from year to year. May be repeated in subsequent semesters if subject matter is different.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in

their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Three credits satisfy the WAC requirement for Philosophy majors. A total of six credits of Honors Study is allowed.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Demand

PHI 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Three credits satisfy the WAC requirement for Philosophy majors. A total of six credits of Honors Study is allowed.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Demand

PHI 197 Independent Study

Independent Study offers students of philosophy an opportunity to do concentrated work on issues that interest them, according to a design of study worked out in collaboration with a member of the faculty. Meeting times and writing requirements are mutually agreed upon prior to the beginning of the semester. To be eligible, students must have a cumulative quality-point ratio of 3.00 and a quality-point ratio of 3.00 in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Independent Study is allowed.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Demand

PHI 198 Independent Study

Independent Study offers students of philosophy an opportunity to do concentrated work on issues that interest them, according to a design of study worked out in collaboration with a member of the faculty. Meeting times and writing requirements are mutually agreed upon prior to the beginning of the semester. To be eligible, students must have a cumulative quality-point ratio of 3.00 and a quality-point ratio of 3.00 in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Independent Study is allowed.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Demand

PHI 208 Gender and Knowledge

What does it mean to know something? Do women arrive at conclusions and solve problems in different ways than men? What makes someone the gender that he or she is? What is the relationship between emotion and reason? Are women more emotional and men more logical? Are men better than women in mathematics and science? Is there such a thing as "feminine intuition"? What is the best way to acquire knowledge?

This course will examine, and attempt to provide answers to these and other questions regarding gender and different types of knowledge. This course examines theories about the relationship of women to knowledge and rationality and examines feminist critiques of traditional views of knowledge.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: HUM 104, PHI 208

Every Spring

PHI 210 The Meaning of Life

In this course we will explore an ancient and fascinating issue: What is the meaning, or purpose, of our lives? (Philosophers will of course want to question whether this question is itself meaningful, or can be made to be so.) A survey of what major historical and contemporary philosophers, literary figures and religious thinkers have offered on the subject will provide students with the necessary intellectual background to think critically and systematically for themselves about the nature of the human situation and what possibilities it offers for leading rich, purposeful lives. Must men and women have religious faith in order to live meaningfully, or can they live purposefully and without absurdity without believing in God? What is the relation of meaningfulness and happiness? Is it necessary to be moral in order to live meaningfully? These and related questions will be explored cooperatively and creatively through individual writing and respectful discussion. Our text will be *The Meaning of Life*, edited by E. D. Klemke and Steven M. Kahn (Cambridge University Press, third edition).

The pre-requisite of PHI 61, 62, HHP 21, or HHP 22 is required, or permission of the Instructor.

Credits: 3

On Occasion

PHI 211 Ethics and Nonhuman Animals

Why do people normally place far greater moral significance on what happens to human beings than on what happens to nonhuman animals? Is it justifiable to give ethical preference to some beings simply because they belong to the species *Homo sapiens*, or is this a prejudice just as indefensible as racism or sexism? Do nonhuman animals have rights, such as the right not to live in miserable conditions or not to be experimented on by

humans for their own purposes? Why should all and only human animals be protected by rights, seeing that many nonhuman animals are superior in intellectual capacity and emotional life to some human beings? Should animals be eaten as food, when this isn't necessary to human health and survival? What should be the role of concern for nonhuman animals in an environmental ethics of the future? These and many related issues will be carefully examined through the works of moral philosophers and advocates for more ethical treatment of nonhuman animals.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

On Occasion

PHI 213 Philosophical Investigations Through Film

This course aims to engage theories of perception, movement of image and temporality through an analysis of avant-garde films and the history of cinema. Such philosophical issues as reality versus appearance, the nature of time, the relation of mind to body, and the possibility of artificial intelligence will also be explored through viewing popular films.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: MA 213, PHI 213

On Occasion

Africana Studies Program

Africana Studies is an interdisciplinary program that draws from the humanities, social sciences and sciences. It focuses on the contributions, world views and concerns facing the African Diaspora from past to present and provides a complementary take on many of the discourses established by traditional disciplines while it also defines and attempts to answer alternative intellectual queries from the perspective of various and varying groups of people of African descent. This 12-credit, minor-granting program has organized and launched several outreach programs with the assistance of Campus and community resources: youth performances, conferences on Africana Philosophy and on Jazz and other African-based musical forms (Music of the Spirit), multicultural, multinational musical performances, films and discussion panels, fundraisers and mentorship presentations. Students interested in learning more about the Africana Studies program should contact the director of the program, Professor Carol Allen (718-488-1053, carol.allen@liu.edu).

Minor in Africana Studies

Students interested in minoring in Africana Studies should consult with the Director of the Program

Required Courses - 6 credits

Introduction to Africana Studies
African Civilization

Students must take 6 additional credits from courses at the 100 level or above such as:

Early African History
African Archaeology
Contemporary African History, 1880-present
African American History to 1865
African American History from 1865
Caribbean History (Special Topics)
The History of Slavery
The History of the Civil Rights Movement
Blacks and the Law
Black Political Thought
African Culture and Society
African Literature (Special Topics)
African Film
African American Lit.
African American Art
African Diaspora Dance (Special Topics)
African Diaspora Music (Special Topics)
Caribbean Lit. (Special Topics)
Caribbean Art
Black Popular Culture (Special Topics)

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Minor in Gender Studies

Students majoring in any discipline also may pursue an academic minor in gender studies. The Gender Studies minor provides students with an overview of the complex relationship between individual and community identity formation. It explores the constructions of self and the status of women and men in culture and society; the interrelatedness of gender with race, ethnicity, class, age, sexual orientation and the assumptions about gender biases and gender stereotypes.

Gender Studies provides a unique education to students – male and female – who wish to enhance their career prospects in the 21st century as would-be educators, artists, writers, leaders, innovators, egalitarian entrepreneurs and challengers of oppression in any given field.

Topics include:

- Biology of human reproduction
- Philosophies of gender construction
- Feminist theory
- Feminist perspectives on global human rights
- Gender and health
- Sex roles in the family and society
- Psychology of gender identity
- Queer theory
- Representations of women and men in literature and media
- Reproductive rights
- Ecofeminism
- Violence against women

The minor in Gender Studies is comprised of 12 credits:

6 credits of required coursework from:

HUM 101: Women in Culture and Society

HUM 102: Theories of Feminism

HUM 126: Culture, Gender and Society

HUM 104: Gender and Knowledge

And 6 credits of electives from a selection of special courses offered each semester by other departments and cross-listed with Gender Studies.

Examples include:

SPE 244: Feminist Spectacle/Gender and Performance

BIO 140: Biology and Gender

POL 128: Race, Sex, and the Law

MA 540: Media, Gender, and Sexuality

For further information contact Professors Patricia Stephens or Margaret Cuonzo 718 488-1050.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Science (Division II)

The Science Division offers majors in biochemistry, biology, chemistry and mathematics as well as support courses in physics. The biology major offers a concentration in molecular biology and also programs leading to a degree of Bachelor of Science in cytotechnology, medical technology and in nuclear medicine technology, all three of which may be completed in fourth-year internship training programs. Students in chemistry and biochemistry may have their degrees certified by the American Chemical Society.

Students must fulfill the requirements of the core curriculum, and satisfy the requirements of their major. Of the 128 credits required for graduation, at least 48 must be earned in courses numbered above 100.

Department of Biology

Professors: Chung, D. Cohen, Griffiths, Morin (Chair), Serafy

Professors Emeriti: Carito, Curley, Hammerman, Hirshon, Polak, Smith, Rothwell, Wendt

Associate Professors: Birchette, DePass, Haynes, Kovac, Marsh,

Associate Professors Emeriti: Dowd, McKenna

Assistant Professors: Kwak, Kwon, Leslie,

Molina, Tello, Vogelstein

Instructor: Peckham

Adjunct Faculty: 15

The Biology Department offers Bachelor of Science degrees in Biology, Medical Technology, Cytotechnology and Nuclear Medicine Technology, as well as a concentration in Molecular Biology at the undergraduate level. At the graduate level, the M.S. in Biology offers concentrations in Molecular/Cellular Biology, Microbiology and Medical Microbiology. Our core of 16 full-time faculty members augmented by over 15 adjuncts offers students an unrivaled expertise in a wide variety of subjects including molecular and cellular biology, bioinformatics, ecology, evolution, microbiology, genetics, ornithology and marine biology. The goal of the Department is to provide a challenging and stimulating curriculum that fosters critical thinking and promotes scientific curiosity on current topics in the biological sciences. Biology majors are encouraged to develop specific career objectives while pursuing undergraduate studies. Departmental advisers will assist students in exploring career possibilities and in devising a personalized plan of study that will best prepare them for their career goals.

Medical Technology

The B.S in Medical Technology is designed to prepare students for entering the job market as a clinical laboratory scientist. Students complete a minimum of 128 credits, including the Conolly College core requirements, specific biology requirements (Bacteriology and Immunology) and Medical Technology I and II. In addition, students must complete a hospital training program for certification as well as pass the state licensing examination.

On completion of all coursework (a minimum of 100 credits) in Richard L. Conolly College, candidates go to an affiliated hospital or any other school with an approved program in medical technology for one year of special training, at the end of which they are eligible for the Bachelor of Science degree and the medical technology certificate. The Medical Technology Program is accredited by the Association of Clinical Pathologists (ASCP). The choice of — and admission to — an approved training program for Medical Technologists are the responsibility of the student and are highly dependent upon academic achievement in the program of study at the University. Students are cautioned that hospital

training spaces are limited and that obtaining a training position may be difficult.

In addition to the clinical laboratory scientist career, a B.S. in Medical Technology can be used as a steppingstone for other career paths. Students may further their scientific pursuits by earning a Master of Science or a Ph.D. in the biological sciences. Successful graduates also may choose to enter medical, osteopathic, veterinary or dental schools to obtain professional degrees. In addition, graduates can choose from a wide variety of health-related fields, such as physical therapy, nursing, genetic counseling and radiologic technology, to name a few.

Cytotechnology

The B.S. in Cytotechnology is designed to prepare students to enter the job market as a cytotechnologist. Students complete a minimum of 128 credits, including the Conolly College core requirements, specific biology course requirements (including Physiology and Genetics) and Medical Technology I and II. In addition, students must complete a hospital training program for certification as well as pass the state licensing examination.

On completion of all course work (a minimum of 100 credits) in Richard L. Conolly College, candidates go to any school with an approved program in Cytotechnology for one year of special training, at the end of which they are eligible for the Bachelor of Science degree and the cytotechnology certificate.

The Cytotechnology Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The choice of — and admission to — an approved training program for cytotechnologists are the responsibility of the student and are highly dependent upon academic achievement in the program of study at the University. Students are cautioned that hospital training spaces are limited and that obtaining a training position may be difficult.

In addition to the cytotechnologist career, a Bachelor of Science degree can be used as a steppingstone for other career paths. Students may further their scientific pursuits by earning a Master of Science or a Ph.D. in the biological sciences. Successful graduates also may choose to enter medical, osteopathic, veterinary or dental schools to obtain professional degrees. In addition, graduates can choose from a wide variety of health-related fields, such as physical therapy, nursing, genetic counseling and radiologic technology, to name a few.

Nuclear Medicine Technology

The B.S in Nuclear Medicine Technology is designed to prepare students for entering the job market as a nuclear technologist. Students complete a minimum of 128 credits, including the Conolly College core requirements, specific biology course requirements (including Physiology and Functional Human Anatomy) and Medical Technology I and II. In addition, students must complete a hospital training program for

certification as well as pass the state licensing examination.

On completion of all course work (a minimum of 100 credits) in Richard L. Conolly College, candidates go to any school with an approved program in Nuclear Medicine Technology for one year of special training, at the end of which they are eligible for the Bachelor of Science degree and the Nuclear Medicine Technology certificate. The Nuclear Medicine Technology program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology. The choice of — and admission to — an approved training program for Nuclear Medicine Technology are the responsibility of the student and are highly dependent upon academic achievement in the program of study at the University. Students are cautioned that hospital training spaces are limited and that obtaining a training position may be difficult.

In addition to the nuclear technologist career, a B.S. in Nuclear Technology can be used as a steppingstone for other career paths. Students may further their scientific pursuits by earning a Master of Science or a Ph.D. in the biological sciences. Successful graduates also may choose to enter medical, osteopathic, veterinary or dental schools to obtain professional degrees. In addition, graduates can choose from a wide variety of health-related fields, such as physical therapy, nursing, genetic counseling and radiologic technology, to name a few.

Molecular Biology

Students majoring in Biology can opt to specialize in Molecular Biology. Those considering the Molecular Biology concentration should have a high school average of at least 90 and combined Scholastic Aptitude Test scores of 1200 on the reading and math portions. The Molecular Biology program gives students a basic knowledge of biochemical principles and practical training in cell and molecular biological laboratory techniques. Emphasis is given to developing experimental skills used in biological research, including current recombinant DNA technologies. In their senior year, students undertake 11 credits of independent research and submit a written thesis for graduation.

B.S. in Medical Technology**B.S., Medical Technology****Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science (included in Ancillary, Distribution and Major) Not Applicable

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

CHM 3 General and Inorganic Chemistry 4.00

CHM 4 General and Inorganic Chemistry 4.00

MTH 30 Pre-Calculus Mathematics 4.00

MTH 40 Calculus I 4.00

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Distribution Requirement

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

Major Requirements

Must complete the following.

BIO 1 General Biology 4.00

BIO 2 General Biology 4.00

The following courses must be fulfilled:

BIO 109 Bacteriology 4.00

BIO 112 Immunobiology 4.00

Student must complete an additional 14 credits of advanced biology courses (numbered >100) not including BIO 101, 131, 132

One year of training in an approved program of Medical Technology

MT 1 Medical Technology 14.00
Clinical Training

MT 2 Medical Technology 14.00
Clinical Training

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Nuclear Medicine Technology**B.S., Nuclear Medicine Technology****Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 8 credits

Science (included in Ancillary, Distribution and Major) Not Applicable

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

CHM 3 General and Inorganic Chemistry 4.00

CHM 4 General and Inorganic Chemistry 4.00

MTH 30 Pre-Calculus Mathematics 4.00

MTH 40 Calculus I 4.00

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Distribution

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

Major Requirements**The following courses must be fulfilled:**

BIO 1 General Biology 4.00

BIO 2 General Biology 4.00

The following courses must be fulfilled:

BIO 104 Human Functional Anatomy 4.00

BIO 125 Physiology 4.00

Student must complete an additional 14 credits of advanced biology courses (numbered >100) not including BIO 101, 131, 132

One year of training in an approved program of Medical Technology

MT 1 Medical Technology 14.00
Clinical Training

MT 2 Medical Technology 14.00
Clinical Training

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Biology**B.S., Biology****Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 8 credits

Science (included in Ancillary, Distribution and Major) Not Applicable

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
(ART, DNC, MUS, THE)**Ancillary Requirement**

The following courses must be fulfilled:

CHM 3 General and Inorganic Chemistry 4.00

CHM 4 General and Inorganic Chemistry 4.00

MTH 30 Pre-Calculus Mathematics 4.00

MTH 40 Calculus I 4.00

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Distribution Requirement

The following courses must be fulfilled:

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

Major Requirements

The following courses must be fulfilled:

BIO 1 General Biology 4.00

BIO 2 General Biology 4.00

In addition, a total of 22 credits of advanced biology credits (numbered >100 and not including BIO 101, 131, 132) are required.

Molecular Biology

The following courses must be fulfilled:

BIO 126 Principles of Genetics 4.00

BIO 160 Molecular Biology 2.00

BIO 161 Introductory Molecular Biology 3.00

BIO 193 Honors Research 5.00

BIO 194 Honors Research 6.00

BIO 550 Molecular and Cell Biology 2.00

BIO 551 Molecular and Cell Biology Laboratory 2.00

CHM 135 Physical Chemistry I 4.00

BIC 153 Biochemistry 4.00

BIC 154 Biochemistry 4.00

Molecular Biology, Additional Course Requirements

BIO >100 additional advanced biology courses from catalog 4.0

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48

credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Cytotechnology**B.S., Cytotechnology****Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 8 credits

Science (included in Ancillary, Distribution and Major) Not Applicable

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
(ART, DNC, MUS, THE)**Ancillary Requirements**

CHM 3 General and Inorganic Chemistry 4.00

CHM 4 General and Inorganic Chemistry 4.00

MTH 30 Pre-Calculus Mathematics 4.00

MTH 40 Calculus I 4.00

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Distribution Requirements

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

Core Science Biology Courses for Biology and Related Majors

BIO 1 General Biology 4.00

BIO 2 General Biology 4.00

Core Chemistry Courses Required of Science Majors

CHM 3 General and Inorganic Chemistry 4.00

CHM 4 General and Inorganic Chemistry 4.00

Core Physics Courses Required of Science Majors

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Core Mathematics Requirement For Science Majors

MTH 30 Pre-Calculus Mathematics 4.00

MTH 40 Calculus I 4.00

Major Requirements**Must complete the following.**

BIO 1 General Biology 4.00

BIO 2 General Biology 4.00

The following courses must be fulfilled:

BIO 115 Histology 4.00

BIO 126 Genetics 4.00

Student must complete an additional 14 credits of advanced biology courses (numbered >100) not including BIO 101, 131, 132

One year of training in an approved program of cytotechnology.

MT 1 Medical Technology Clinical Training 14.00

MT 2 Medical Technology Clinical Training 14.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Biology

Students who wish to minor in a Science area are required to successfully complete, with a grade of C or higher, a minimum of 12 credits in courses numbered 100 or above in a Science department or discipline other than their major. Courses taken as a graduation requirement for a major may not be applied to the minor. No more than 6 transfer credits may be applied to the 12 credit total.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Biology Courses

BIO 1 General Biology

First semester of a two-semester sequence (BIO 1, BIO 2). A biochemical and molecular approach to the study of concepts of general biology. Topics include the study of cellular and subcellular structure and the function of plant and animal tissues, including bioenergetics, physiology, heredity, and development and evolution of living systems. Two hours of lecture and two two-hour laboratory periods per week. Open only to Science and Pharmacy majors and University Honors Students.

In order to register for this course students must be in either Biochemistry, Biology, Medical Technology, Nuclear Medicine Technology or Pharmacy Professional major.

Credits: 4

Every Fall and Spring

BIO 2 General Biology

Second semester of a two-semester sequence (BIO 1, BIO 2). A biochemical and molecular approach to the study of concepts of general biology. Topics include the study of cellular and subcellular structure and the function of plant and animal tissues, including bioenergetics, physiology, heredity, and development and evolution of living systems. Two hours of lecture and two two-hour laboratory periods per week. Open only to Science and Pharmacy Majors and University Honors Students.

The pre-requisite of BIO 1 is required.

Credits: 4

Every Fall and Spring

BIO 3 Life: Its Origin, Maintenance and Future

First semester of a two-semester sequence (BIO 3, BIO 4). A presentation of the nature of living systems and the fundamental principles governing their creation in relation to current problems affecting the maintenance of life on earth. Special emphasis is placed on the interaction of biological and cultural evolution and the alternatives to extinction that challenge contemporary human beings. Two hours of lecture and two two-hour laboratory periods per week.

This course is not open to students in the Biology, Cytotechnology, Nuclear Medicine Technology, Medical Technology Plans

Credits: 4

Every Fall, Spring and Summer

BIO 4 Life: Its Origin, Maintenance and Future

Second semester of a two-semester sequence (BIO 3, BIO 4). A presentation of the nature of living systems and the fundamental principles governing their creation in relation to current problems affecting the maintenance of life on earth. Special emphasis is placed on the interaction of biological and cultural evolution and the alternatives to extinction that challenge contemporary human

beings. Two hours of lecture and two two-hour laboratory periods per week.

This course is not open to students in the Biology, Cytotechnology, Nuclear Medicine Technology, Medical Technology Plans. The pre-requisite of BIO 3 is required.

Credits: 4

Every Fall, Spring and Summer

BIO 22 Biology and Modern Technology

An examination of the fundamental processes that sustain life. Major topics include cell structure and cell function, cell division, how genes work, the structure and function of the major organ systems of the human body, and the action and biochemistry of drugs (such as contraceptives, antibiotics, protease inhibitors, anabolic steroids and psychoactive drugs) on the human body. Two hours of lecture and two laboratory hours per week. Not open to Science majors. Prerequisites: PHY 20, CHE 21.

The pre-requisites of PHY 20 and CHM 21 are required. Course not open to science majors.

Credits: 3

Every Fall, Spring and Summer

BIO 101 Microbiology

An examination of the prevention and control of disease and the basic principles of microbiology, immunology and epidemiology as applied to personal and community health. Two hours of lectures and one two-hour laboratory period per week. Not open to Biology, Medical Technology, Cytotechnology and Nuclear Medicine Technology majors.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 3

Every Fall, Spring and Summer

BIO 102 Marine Biology

An examination of the physical attributes of sea water and its organisms, extending from the invertebrates, including corals, to fish and other vertebrates. The major approach is ecological, with the physical and biotic factors of different habitats. Laboratory sessions include dissections. Some field trips are included for observation and sample collections. Two hours of lecture and two two-hour laboratory period per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Alternate Fall

BIO 103 Comparative Anatomy and Evolution of Vertebrates

A study of the fundamentals of taxonomy, evolution, paleobiology and comparative morphology of the vertebrates. Two hours of lecture and one four-hour laboratory period per week plus museum study.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

On Occasion

BIO 104 Human Functional Anatomy

A regional approach to the major musculoskeletal, sensory and physiologic systems of the body, emphasizing the anatomical basis of normal human activity such as breathing, seeing, eating, walking, speaking and hearing. Relevant examples of congenital and other abnormalities, as well as commonly sustained injuries, are used to underscore the significance of anatomical relationships. Two three-hour combined lecture laboratory periods per week.

The pre-requisite of BIO 2 or BIO 4 is required, or permission of the Instructor.

Credits: 4

Every Fall

BIO 105 Invertebrate Zoology

A study of the morphology, physiology, evolution and ecological relationships of representatives of selected invertebrate phyla. Two hours of lecture and two two-hour laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Alternate Fall

BIO 106 Ecology

An examination of the place of humanity in the web of nature - its relationship to the environment and the need for rational coexistence with the earth. The fundamentals of the science, such as population dynamics, the ecosystem and biogeochemical cycles are stressed. Recitation includes field trips, projects, seminars, reports and literature reviews. Two hours of lecture, one hour recitation and one three-hour laboratory period per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Fall

BIO 108 Molecular Biology of Plants

This course is designed to provide students with knowledge about the principles of plant biology and its applications at the level of genes and molecules. First of all, students will learn current topics in plant biology: how plants grow, develop, respond to hormones, light, and stress and assimilate carbohydrates. During lectures, we will discuss the following topics: how genes regulate physiological processes, how those genes have been found, and how the expression of those genes is regulated. The scientific papers and experiment data will be discussed as well. Secondly, students will learn about the concept, techniques and applications of plant genomics, bioinformatics and systems biology by experiencing Arabidopsis thaliana research. Students will learn how to use representative Arabidopsis biological information resources, and mutant libraries that are available on-line. Using this information and knowledge, students will perform small research projects. After taking this course, students will learn current questions of plant molecular biology and up-to-date techniques of plant genomics. By performing research,

students will have opportunity to be trained as future molecular biology researchers or agricultural scientists in academia and industry. Two hours of lecture and two, two-laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Fall

BIO 109 Bacteriology

An introduction to the biology of bacteria, yeast and molds, with consideration of the principles and practices of bacteriological techniques. Host-parasite relationships and the immune response are also studied. Two hours of lecture and two two-hour laboratory periods per week.

Pre-requisites of BIO 2 or BIO 4, and CHM 4 are required.

Credits: 4

Every Fall

BIO 111 Virology

An exploration of the nature of viruses, viral genetics, structure, infectivity, and transmission. Designed to acquaint students with all aspects of virology, the course examines viral transcription, classification/nomenclature of viruses, the origin/evolution of viruses, and prions. Detailed analyses are conducted in emerging viruses, the role of viruses in cancer progression and vaccine development. Laboratory exercises explore several techniques in virology including the isolation, purification and growth of bacteriophage. Detection and analysis of viral nucleic acid with PCR, RT-PCR, and gel electrophoresis as diagnostic tools is also incorporated into the laboratory exercises. Readings include selected texts with heavy reliance on the primary literature. Student presentations on anti-viral targeting techniques will augment laboratory material. Two hours of lecture and two two-hour laboratory periods per week plus collateral reading.

The pre-requisite of BIO 2 or 4 is required.

Credits: 4

Every Spring

BIO 112 Immunobiology

A study of cellular and humoral immunology. Topics covered include antigen and antibody structure, the genetic control of antibody formation, cell-cell interactions, hypersensitivity, histocompatibility immunogenetics, transplantation, tumor immunology, autoimmune disorders and immune deficiency disorders. Two hours of lecture and two two-hour laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Spring

BIO 114 Herpetology

A study of the anatomy and physiology of amphibians and reptiles and their roles in different world ecosystems. Lectures place the topics in evolutionary and ecological contexts. Laboratory sessions include the study of behavior and

examination of specimens, including dissections.

Two hours of lecture and two, two-hour laboratory periods per week plus one visit to the American Museum of Natural History and one into the field.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Alternate Spring

BIO 115 Histology

This course examines the microscopic anatomy of mammalian cells, tissues and organs with emphasis on the correlation between structural adaptations and function.

The course includes lectures, class discussions, and laboratory sessions which will enable students to develop not only a theoretical understanding of the microscopic anatomy, but also to develop practical abilities.

The laboratory portion of Bio 115 will give students the opportunity to examine the microscopic structure of stained and mounted sections of mammalian tissues as well as images and web content. The laboratory work will focus on developing observational skills while getting experience in the effective use of the microscope as a scientific tool. Students will be also be expected to grasp the terminology and basic concepts of specialized histotechniques used in the preparation of specimens. The ultimate goal is to provide students with a working knowledge of microscopic anatomy and prepare students for subsequent courses and solve real-life issues. Two hours of lecture and two two-hour laboratory periods per week plus collateral reading.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Spring

BIO 117 Animal Development

This course is designed to introduce the fundamental questions and answers of developmental biology to advanced undergraduate students. The entire course will be dedicated to answer the big question of developmental biology: how single-celled zygotes develop into multicellular organisms that are made of numerous types of cells in a highly ordered way. The lectures will focus on cell-cell interactions, cell fate determination, pattern formation, organ development and evolutionary development. Students will learn how those developmental processes are regulated in the level of molecules and genes. The later part of the course will be dedicated to studying plant development. In the laboratory class, students will study prepared slides of the starfish, frog, chick embryo and living material of the sea urchin and Arabidopsis plants. Modern molecular and genetic techniques that are used in developmental biology will be discussed as well. Two hours of lecture and two two-hour laboratory periods per week plus collateral reading.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Spring

BIO 118 Biology of Animal Behavior

This course will provide a rigorous scientific framework in which to understand behavior from mechanistic, ecological and evolutionary perspectives by examining topics including the genetic, physiological, neural and developmental bases of behavior, animal learning, foraging, habitat selection, predator-prey interaction, communication, reproduction and mating systems, parental care and social behavior. Two hours of lecture and two hours of recitation per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 3

On Occasion

BIO 119 Principles of Evolution

The goal of this course is to provide a comprehensive introduction to modern evolutionary biology, an exciting, dynamic and important field of scientific investigation that constitutes the central theme unifying all of biology. The course begins with an introduction to evolutionary thinking followed by the study of the pattern of evolution and the mechanisms that cause evolutionary change. Then it continues with the fundamental concepts of evolutionary genetics, natural selection, and adaptation. Additional topics include molecular evolution and systematics, the origins of biological diversity, paleobiology and macroevolution. The primary emphasis will be on concepts. However, a major goal will be to impart some understanding of the methods used in evolutionary investigations: the kinds of observations and experiments that are used, the facts that are observed and inferred, and the kinds of reasoning used to develop and test hypotheses. Students are expected to critically examine and evaluate biological phenomena in light of the evolutionary processes that shaped them.

Laboratory exercises and discussions of relevant literature are used to reinforce the concepts learned during lectures. Two hours of lecture, one hour of recitation and three hours of laboratory per week plus term paper.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

On Occasion

BIO 121 Ornithology

A study of the anatomy, physiology, ecology, behavior and evolution of birds. The major goal is to integrate information from other biology courses to gain a better understanding of biology as a whole. A second goal is to gain an appreciation of the diversity of the natural world through an intense survey of birds. Laboratory topics include anatomical studies of bird anatomy and feather structure and computer sessions examining bird song and bird evolution. Two hours of lecture and one four hour laboratory period or field trip per week. Field trips include visits to the Ornithology Department of the American Museum of Natural History, the Bronx Zoo, the Jamaica Bay Wildlife Refuge, and Floyd Bennett Field (Gateway National

Recreation Area).

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Spring

BIO 124 Mammalian Anatomy

A study of the functional anatomy and adaptive evolution of mammals designed for the student of biology and for students planning to enter the medical and dental professions. The cat, as a representative mammal, is the subject of a detailed laboratory study. Two hours of lecture and one four-hour laboratory period per week plus museum and zoo studies, collateral reading and reports.

Pre-requisite of BIO 103 is required.

Credits: 4

On Occasion

BIO 125 Physiology

An examination of the mechanisms and dynamics of living matter. Laboratory work consists of experimental exercises in the field of general and animal physiology. Two lecture hours, one four-hour laboratory period per week, collateral reading and reports.

Pre-requisites of BIO 2 or BIO 4, and CHM 4 are required.

Credits: 4

Cross-Listings: BIC 125, BIO 125

Every Spring

BIO 126 Principles of Genetics

A molecular approach to classical genetics, with the implications of current events in DNA research on human problems. The laboratory, which integrates exercises with *Drosophila*, bacteria and computer simulations, requires weekly reports. Two lecture hours, two two-hour laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Cross-Listings: BIC 126, BIO 126

Every Fall

BIO 127 Cell Signaling

This course will consist of a lecture series focusing primarily on the characteristics of signal transduction pathways. It will outline the necessity of cell signaling in prokaryotes, the cellular slime mold, dictyostelium, and metazoan development and homeostasis. The course will end in cell signaling's relevance in the development of novel drugs. In addition, there will be a laboratory session which will focus on experiments in cell signaling. It is designed as a precursor to laboratory research. Students will be exposed to various techniques in protein chemistry. They will then be encouraged to design their own experiments in cell signaling using techniques and equipment seen throughout the course. Two hours of lecture and two two-hour laboratory periods per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 4

Every Spring

BIO 128 The Basis of Cell Function

An introduction to the structure and function of the eukaryotic cell and its organelles, stressing the underlying similarities among cell types. The laboratory includes microscopy, cell fractionation, chromatography, electrophoresis, DNA restriction analysis and computer research to study the interdependence of cellular structure and function. Two lecture hours, two two-hour laboratory periods per week. (Same as BIO 128).

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Cross-Listings: BIC 128, BIO 128

Every Fall

BIO 129 The Biological Basis of Human Variation

This course explores the biological foundations of human variability and attempts to clarify the relationship between biological and racial perspectives of human populations. There are two broad themes: first, what does science have to say about the way we frame discussions of human differences, and second, what are the implications of human biological variation for addressing a wide range of medical and socio-political issues? We begin with a basic overview of the Biology of Classification and then proceed to examine various traits of inheritance as well as the origin, characteristics, and distribution of major living human groups. Some specific genetically-based diseases offer insight into the pros and cons of so-called "race-based" medicine and provide a springboard for considering medical practice tailored to population and/or individual genetic profiles. In addition, we must take into account scientists' ultimate ability to alter our basic biology. Are 'designer babies' on the horizon for our species and if so, how will technological advances affect the range and distribution of human variability? We will also examine criteria for establishing census categories and immigration policies within the context of biological differences. Throughout the course our inquiries will take place against the backdrop of historical considerations, with students asked to review and critique earlier scientific work based on current understanding of human biological variation. Three hours of lecture per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 3

Every Fall

BIO 131 Human Anatomy

A study of the anatomy of the human body. The recitation and laboratory include demonstration and study of human models and dissection of selected mammals. Histologic and embryological studies are combined with a detailed organ system study of the anatomy of man. Two three-hour laboratory periods per week. Not open to Biology, Medical Technology, Cytotechnology and Nuclear Medicine Technology majors.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Every Fall, Spring and Summer

BIO 132 Human Physiology

An introduction for health-science students to the physiological principles that govern human function. The physiology of cells, tissue organs and systems is presented in a manner that underscores the physiological basis for health and disease. Three lecture hours per week. Not open to Biology, Medical Technology, Cytotechnology and Nuclear Medicine Technology majors.

The pre-requisite of BIO 131 is required. Also, the pre-requisites of CHM 3 and CHM 4 are required or CHM 3X.

Credits: 3

Every Fall, Spring and Summer

BIO 136 Biological Techniques

A study of fundamental techniques employed in the biological sciences, including the uses of radioisotopes. One hour of lecture and two three-hour laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

On Occasion

BIO 140 Biology and Gender

This course will investigate the biologic basis for development of sex and gender, as well as the roles that sex and gender play in biologic research. Current issues in biology and gender are covered, including differences in anatomy and physiology, response to medication, immunity, and brain function. Controversies such as those in prenatal genetic diagnosis, inclusion of both sexes in clinical trials, effects of environmental endocrine disruptors, and male/female differences in the practice of science will be covered. Course requirements include exams, papers, and participation. Three hours of lecture per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 3

Every Spring

BIO 150 Applications in Biotechnology

This course is designed to teach undergraduate students how to read and comprehend the primary scientific literature. Students will read current scientific papers dealing primarily with techniques/technology and then discuss the methodology, data presented, the validity of the results, and alternate conclusions to the data presented. The methodology employed in the paper will then be related to industrial, medical and/or research based applications. Three hours of lecture per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 3

Every Fall and Summer

BIO 152 Foundations of Biochemistry

A study of the chemical structure and metabolism of carbohydrates, lipids, proteins and nucleic acids.

Quantitative aspects of enzyme function and bioenergetics are also covered. This course provides the necessary background for Biology majors and preprofessional students. Three hours of lecture per week.

Pre-requisite of CHM 122 is required.

Credits: 3

Every Spring

BIO 160 Molecular Biology

An introduction to molecular biology laboratory techniques. The laboratory emphasizes the techniques and applications of recombinant DNA technology; laboratories include molecular cloning, blotting, DNA sequencing and PCR, genomic and plasmid DNA isolation, and purification and labeling of DNA fragments. Two two-hour laboratory periods per week. Prerequisites: BIO 126, CHE 4. BIO 161 recommended.

Credits: 2

Cross-Listings: BIC 160, BIO 160

Every Spring

BIO 161 Introductory Molecular Biology

A study of advanced molecular genetics emphasizing gene structure and regulation in both prokaryotes and eukaryotes. Detailed biochemistry of DNA structure and replication, RNA transcription and processing, protein synthesis, and the mechanisms that regulate gene expression are reviewed. Three lecture hours per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 3

Cross-Listings: BIC 161, BIO 161

Every Spring

BIO 193 Honors Research

Honors Research is designed to give students in the Molecular Biology program an opportunity to do research under the guidance of the faculty. To be eligible, students must have senior status. Open to science majors who have completed BIO 160 and have the permission of the instructor. Ten hours of laboratory per week.

The pre-requisite of BIO 160 is required.

Credits: 5

Every Fall

BIO 194 Honors Research

Honors Research is designed to give students in the Molecular Biology program an opportunity to do research under the guidance of the faculty. To be eligible, students must have senior status. This course is also open to science majors who have completed BIO 160 and have the permission of the instructor. Twelve hours of laboratory per week.

The pre-requisite of BIO 160 is required.

Credits: 6

Every Spring

BIO 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be

eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students are required to have had an advanced Biology elective with the faculty member teaching the class. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Fall

BIO 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students are required to have had an advanced Biology elective with the faculty member teaching the class. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Spring

BIO 197 Independent Study

Prerequisite: Student must have had at least one upper-level course in the area of interest as well as permission of the Chair of the Department and the Dean.

Credits: 1 to 4

Every Fall

BIO 198 Independent Study

Prerequisite: Student must have had at least one upper-level course in the area of interest as well as permission of the Chair of the Department and the Dean.

Credits: 1 to 4

On Demand

BIO 199 Biology Internship

During their senior year, Biology majors can undertake one internship within the area of biology/clinical research. Consultation with the Chairperson and approval of the Department is required.

A minimum of 64 credits must be completed prior to registering for this course and Departmental approval.

Credits: 1 to 3

On Demand

Medical Technology Courses

MT 1 Medical Technology Clinical Training

Medical Technology 1 is offered every Fall, and Medical Technology 2 is offered every Spring. All Medical Technology students must register for Medical Technology 1 in the Fall and Medical Technology 2 in the Spring during the semesters in which they are being trained off-campus at a clinical training facility. Such training normally is taken after the completion of 100 credits of course work at LIU Brooklyn. Pass/Fail only.

Credits: 14

Every Fall

MT 2 Medical Technology Clinical Training

Medical Technology 1 offered every Fall, Medical Technology 2 offered every Spring. All Medical Technology students must register for Medical Technology 1 in the Fall and Medical Technology 2 in the Spring during the semesters in which they are being trained off-campus at a clinical training facility. Such training normally is taken after the completion of 100 credits of course work at LIU Brooklyn. Pass/Fail only.

Credits: 14

Every Spring

Department of Chemistry and Biochemistry

Senior Professor: Zavitsas

Professors: Bensalem, Chung, Lawrence, Siegel, Shedrinsky, Watson

Professors Emeriti: Ferraro, Hirschberg, Huang, Loscalzo, Reidlinger, Rogers, Chawla

Associate Professors: Bhattacharjee, Donahue, Luján-Upton, Matsunaga, Schnatter, Vasanthan (Chair)

Assistant Professors: Gough

Adjunct Faculty: 10

Chemistry

The 128-credit B.S in Chemistry has been designed to provide a balanced education for those students who plan to pursue professional careers in chemistry or in allied areas either immediately after attainment of degree, or after further graduate training. Students completing the curriculum recommended by the American Chemical Society may have their degrees certified by that organization. Students preparing to teach in the field of chemistry on the secondary level should consult the Teaching and Learning section of the School of Education Web site for additional requirements.

Chemistry majors are encouraged to develop specific career objectives while pursuing undergraduate studies. Departmental advisers will assist students in exploring career possibilities and in devising a personalized plan of study that will best prepare them for their career goals.

Developments and discoveries in the fields of chemistry have had an enormous impact on our society. Majoring in chemistry prepares one for a number of challenging and rewarding career opportunities in areas such as: the pharmaceutical industry, medicine, agriculture, manufacturing, forensic science, environmental science, metallurgy, plastics, engineering, electronics and biotechnology.

Biochemistry

The undergraduate program leading to the degree of Bachelor of Science in Biochemistry connects the ever-growing important interface between biology and chemistry. Training emphasizing advanced experimental and theoretical principles is provided in both the biological and chemical sciences, as a foundation for a variety of career paths, including further training in biology, chemistry or biochemistry; molecular biology; and medical or dental school. Students successfully completing the biochemistry curriculum may have their degrees certified by the American Chemical Society. Biochemistry majors are urged to consult with advisers from both the Biology Department and the Chemistry and Biochemistry Department to formulate appropriate programs of study and to explore the numerous career paths available.

B.S. in Biochemistry

B.S., Biochemistry

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 8 credits
(MTH 30 & 40)

Science (included in Distribution) Not Applicable

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Distribution Requirements

The following courses are required:

BIO 003 Life: Its Origin, Maintenance & Future 4.00

BIO 004 Life: Its Origin, Maintenance & Future 4.00

CHM 003 General & Inorganic Chemistry 4.00

CHM 004 General & Inorganic Chemistry 4.00

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Ancillary Requirements

The following courses are required:

CHM 113 Quantitative Analysis 4.00

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

CHM 135 Physical Chemistry I 4.00

MTH 101 Calculus II 4.00

Major Requirements

The following courses are required:

BIC 128 The Basis of Cell Function 4.00

BIC 153 Biochemistry 4.00

BIC 154 Biochemistry 4.00

BIC 160 Molecular Biology 2.00

BIC 161 Introductory Molecular Biology 3.00

BIC 186 Senior Research 3.00

BIO 128 The Basis of Cell Function 4.00

BIO 160 Molecular Biology 2.00

BIO 161 Introductory Molecular Biology 3.00

CHM 136 Physical Chemistry II 4.00

CHM 153 Biochemistry 4.00

CHM 154 Biochemistry 4.00

Choose two (2) out of the following:

BIC 125 Physiology 4.00

BIC 126 Principles of Genetics 4.00

BIC 187 Senior Research 3.00

BIO 125 Physiology 4.00

BIO 126 Principles of Genetics 4.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Chemistry

B.S., Chemistry

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 8 credits
(MTH 30 & 40)

Science (CHM 3 & 4) 8 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirement

The following courses must be fulfilled:

BIO 3 Life: Its Origin, 4.00
Maintenance and Future

BIO 4 Life: Its Origin, 4.00
Maintenance and Future

PHY 31 General Physics 4.00

PHY 32 General Physics 4.00

Distribution Requirement

The following courses must be fulfilled:

MTH 101 Calculus II 4.00

Major Requirements

The following courses must be fulfilled:

BIC 153 Biochemistry 4.00

BIC 154 Biochemistry 4.00

CHM 113 Quantitative Analysis 4.00

CHM 121 Organic Chemistry 4.00

CHM 122 Organic Chemistry 4.00

CHM 135 Physical Chemistry I 4.00

CHM 136 Physical Chemistry II 4.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:
64 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48
credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Chemistry

Students who wish to minor in a Science area are required to successfully complete, with a grade of C or higher, a minimum of 12 credits in courses numbered 100 or above in a Science department or discipline other than their major. Courses taken as a graduation requirement for a major may not be applied to the minor. No more than 6 transfer credits may be applied to the 12 credit total.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Biochemistry Courses

BIC 125 Physiology

An examination of the mechanisms and dynamics of living matter. Laboratory work consists of experimental exercises in the field of general and animal physiology. Two lecture hours, one four-hour laboratory period per week, collateral reading and reports.

Pre-requisites of BIO 2 or BIO 4, and CHM 4 are required.

Credits: 4

Cross-Listings: BIC 125, BIO 125

Every Spring

BIC 126 Principles of Genetics

A molecular approach to classical genetics, with the implications of current events in DNA research on human problems. The laboratory, which integrates exercises with *Drosophila*, bacteria and computer simulations, requires weekly reports. Two lecture hours, two two-hour laboratory periods per week.

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Cross-Listings: BIC 126, BIO 126

Every Fall

BIC 128 The Basis of Cell Function

An introduction to the structure and function of the eukaryotic cell and its organelles, stressing the underlying similarities among cell types. The laboratory includes microscopy, cell fractionation, chromatography, electrophoresis, DNA restriction analysis and computer research to study the interdependence of cellular structure and function. Two lecture hours, two two-hour laboratory periods per week. (Same as BIO 128).

Pre-requisite of BIO 2 or BIO 4 is required.

Credits: 4

Cross-Listings: BIC 128, BIO 128

Every Fall

BIC 153 Biochemistry

An in-depth study of modern biochemistry, including the conformation and dynamics of biomolecules, the design and regulation of metabolic pathways, and the storage, transmission and expression of genetic information. The laboratory emphasizes biochemical instrumentation. Two lecture hours, one four-hour laboratory. (Same as BIO 153.) This course has an additional fee.

The pre-requisite of CHM 122 is required.

Credits: 4

Cross-Listings: BIC 153, CHM 153

Every Fall

BIC 154 Biochemistry

An in-depth study of modern biochemistry, including the conformation and dynamics of biomolecules, the design and regulation of metabolic pathways, and the storage, transmission and expression of genetic information. The laboratory emphasizes biochemical

instrumentation. Two lecture hours, one four-hour laboratory. Same as BIO 154.

The pre-requisite of BIC 153 is required.

Credits: 4

Cross-Listings: BIC 154, CHM 154

Every Spring

BIC 160 Molecular Biology

An introduction to molecular biology laboratory techniques. The laboratory emphasizes the techniques and applications of recombinant DNA technology; laboratories include molecular cloning, blotting, DNA sequencing and PCR, genomic and plasmid DNA isolation, and purification and labeling of DNA fragments. Two two-hour laboratory periods per week. Prerequisites: BIO 126, CHE 4. BIO 161 recommended.

Credits: 2

Cross-Listings: BIC 160, BIO 160

Every Spring

BIC 161 Introductory Molecular Biology

A study of advanced molecular genetics emphasizing gene structure and regulation in both prokaryotes and eukaryotes. Detailed biochemistry of DNA structure and replication, RNA transcription and processing, protein synthesis, and the mechanisms that regulate gene expression are reviewed. Three lecture hours per week.

The pre-requisite of BIO 2 or 4 is required.

Credits: 3

Cross-Listings: BIC 161, BIO 161

Every Spring

BIC 186 Senior Research

Laboratory and library research on a special problem, written report required. Pass/Fail only. Open only to qualified students with the permission of the Department Chair and the faculty research adviser.

Credits: 3

Every Semester

BIC 187 Senior Research

Laboratory and library research on a special problem, written report required. Pass/Fail only. Open only to qualified students with the permission of the Department Chair and the faculty research adviser.

Credits: 3

Every Semester

BIC 195 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Department Chair and the Dean. A total of six credits of Honors Study is the maximum allowed. Not open to students who have successfully completed Biochemistry 186, 187.

Credits: 3

Every Semester

BIC 196 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Department Chair and the Dean. A total of six credits of Honors Study is the maximum allowed. Not open to students who have successfully completed Biochemistry 186, 187.

Credits: 3

Every Semester

Chemistry Courses

CHM 3 General and Inorganic Chemistry

A modern course in general chemistry, stressing the fundamental principles of atomic and molecular structure, stoichiometry, states of matter, and thermodynamics. Laboratory experiments supplement the lecture material. Two lecture hours, one recitation period and a three-hour laboratory period. For Science majors.

The co-requisite or pre-requisite of Math 30 is required. Students in the PHR3 and PHR6 Student group are not allowed to register for this course.

Credits: 4

Every Semester

CHM 3X General Chemistry

An examination of the fundamental theories of chemistry, with a general application to everyday living. Two lecture hours, one recitation period, three laboratory periods. Not open to Division II majors.

Credits: 4

Every Semester

CHM 4 General and Inorganic Chemistry

A modern course in general chemistry, stressing the fundamental principles chemical equilibria, rates of reactions, nuclear chemistry, coordination compounds, thermodynamics and electrochemistry. This course also emphasizes descriptive inorganic chemistry, the theory and practice of semi-micro qualitative analysis and an introduction to organic chemistry. Laboratory experiments supplement the lecture material. Two lecture hours, one recitation period and a three-hour laboratory period. For Science majors.

Pre-requisite of CHM 3 is required. Students in the PHR3 and PHR6 Student group are not allowed to register for this course.

Credits: 4

Every Semester

CHM 4X Introduction to Organic and Biochemistry

A review of the general application of organic

chemistry and biochemistry to everyday living. Fulfills science requirements for non-science majors. Two lecture hours, one recitation period, three laboratory periods. Not open to Division II majors.

Pre-requisite of CHM 3X is required.

Credits: 4

Every Semester

CHM 21 Chemistry and Modern Technology

An introduction to fundamental chemical principles, such as classification of compounds and chemical reactions, which are applied to topics in human biology such as metabolism and digestion. The role of chemistry in society is also addressed through the study of chemical processes in industry and the environment. This course is not open to Science Majors.

Pre-requisite of PHY 20 is required. Course not open to science majors.

Credits: 3

Every Semester

CHM 113 Quantitative Analysis

A survey of the theories and techniques of traditional volumetric and gravimetric analysis, plus treatment of instrumental techniques, i.e., spectrophotometry and chromatography. Designed for Chemistry, Biochemistry and Biology majors who may continue their studies either in graduate programs or in professional schools. Two lecture hours, one recitation period, one three-hour laboratory period.

Pre-requisite of CHM 4 is required.

Credits: 4

Every Fall

CHM 121 Organic Chemistry

The purpose of this introductory course is to expose students to the foundations of chemical reactivity and reaction mechanisms. The students will review chemical bonding, study functional groups, and also naming organic compounds. This will be followed by the study of alcohols, alkyl halides and alkenes. Introduction to substitution and elimination reactions, radical reactions and additions to alkenes. Two lecture hours, one quiz period and a three-hour laboratory period.

The pre-requisite of CHM 4 is required. Students in the PHR3 Student group are not allowed to register for this course.

Credits: 4

Every Semester

CHM 122 Organic Chemistry

Overview of the main spectroscopic methods used in the identification of organic compounds with a particular emphasis on the study of nuclear magnetic resonance and infrared spectroscopy. Introduction to organometallic chemistry. Alcohol functional groups, synthesis of alcohols by means of reduction reactions and reactivity of alcohols in oxidation reactions. Synthesis and reactivity of the carbonyl group. Reactivity of enols and enolates, study of the reactions of carboxylic acids and their

derivatives, the acid chlorides, anhydrides, esters, amides and nitriles. Study of amines, aryl halides and phenols. Two lecture hours, one quiz period and a three-hour laboratory period.

The pre-requisites of CHM 4 and CHM 121 are required. Students in the PHR3 Student group are not allowed to register for this course.

Credits: 4

Every Semester

CHM 135 Physical Chemistry I

A study of thermodynamics, solution equilibria, chemical kinetics, and electrochemistry and their application to biological systems. Three lecture hours, one three-hour laboratory. Open only to Chemistry and Biochemistry majors and to qualified students in other majors with the permission of the Department Chair.

The pre-requisites of CHM 113, CHM 122, PHY 32 and MTH 40 are all required.

Credits: 4

Every Fall

CHM 136 Physical Chemistry II

A study of the physical changes of states, statistical thermodynamics, elementary quantum mechanics, atomic and molecular structure, spectroscopy, and the solid state. Three lecture hours, one three-hour laboratory. Open only to Chemistry and Biochemistry majors and to qualified students in other majors with the permission of the Department Chair.

The pre-requisites of CHM 135 and MTH 101 are required.

Credits: 4

Every Spring

CHM 153 Biochemistry

An in-depth study of modern biochemistry, including the conformation and dynamics of biomolecules, the design and regulation of metabolic pathways, and the storage, transmission and expression of genetic information. The laboratory emphasizes biochemical instrumentation. Two lecture hours, one four-hour laboratory. (Same as BIO 153.) This course has an additional fee.

The pre-requisite of CHM 122 is required.

Credits: 4

Cross-Listings: BIC 153, CHM 153

Every Fall

CHM 154 Biochemistry

An in-depth study of modern biochemistry, including the conformation and dynamics of biomolecules, the design and regulation of metabolic pathways, and the storage, transmission and expression of genetic information. The laboratory emphasizes biochemical instrumentation. Two lecture hours, one four-hour laboratory. Same as BIO 154.

The pre-requisite of BIC 153 is required.

Credits: 4

Cross-Listings: BIC 154, CHM 154

Every Spring

CHM 186 Senior Research

Laboratory and library research on a special problem; written report required. Pass/Fail only.

Open only to qualified students with the permission of the Department Chair and the Faculty Research Adviser or advisers. Prerequisite: CHM 136. Offered every semester.

Credits: 3

Every Semester

CHM 187 Senior Research

Laboratory and library research on a special problem; written report required. Pass/Fail only.

Open only to qualified students with the permission of the Department Chair and the Faculty Research Adviser. Prerequisite: CHM 136. Offered every semester.

Credits: 3

Every Semester

CHM 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Department Chair and the Dean. A total of six credits of Honors Study is the maximum allowed. (Not open to students who have successfully completed CHM 186, 187.)

Pre-requisite of CHM 136 is required.

Credits: 3

Every Semester

CHM 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Department Chair and the Dean. A total of six credits of Honors Study is the maximum allowed. (Not open to students who have successfully completed CHM 186, 187.)

Pre-requisite of CHM 136 is required.

Credits: 3

Every Semester

Department of Mathematics

Professors: Myers, Park, Zuckerberg
Professors Emeriti: Posmentier, Stanley, Zuckerman

Associate Professors: Allan, Bednarchak (Chair), Knight, Su

Associate Professors: Emeriti Farber, Tucker

Assistant Professor: Zablow

Adjunct Faculty: 21

The Mathematics Department offers the B.S in Mathematics, which exposes our students to the study of spatial relationships, universal patterns and abstract structures. The first three years of study follows a core curriculum, which provides the students with a broad foundation of knowledge and equips them with the analytical skills essential for the pursuit of further studies in mathematics at the graduate level. Given the all-pervasive nature of mathematics and its unusual effectiveness as the formal language of science, we support the services of programs not only in chemistry, biology, pharmaceutical research and computer science, but also in the liberal arts disciplines of economics, finance, sociology and psychology.

Our students have the option of majoring in mathematics together with minors in computer science, economics and actuarial science; and in the recent past, some have even majored in mathematics while executing a minor in chemistry.

Mathematics majors are encouraged to develop specific career objectives while pursuing undergraduate studies. Departmental advisers will assist students in exploring career possibilities and in devising a personalized plan of study that will best prepare them to meet and exceed their career goals.

An undergraduate major in mathematics followed by graduate work in the same or related areas prepares students for careers in many fields. A partial listing of these fields includes business, banking, technical analysis of markets, mathematical modeling, statistical research, insurance, high technology, teaching at all levels from high school to college and theoretical research in new mathematics. Mathematics majors who elect to minor in computer science will be well prepared for employment in computer hardware and software system design and data processing.

Actuarial Science

The Mathematics Department also offers a program leading to the Bachelor of Science in Mathematics with a concentration in Actuarial Science. Students wishing admission to this program must have completed Mathematics 30 with at least a grade of B. At the discretion of the Department Chair or program coordinator, students who have received a C or C+ in Mathematics 30 may be conditionally admitted to the program, but they must receive at least a grade of B in Mathematics 40. Retention in the program requires at least a B in all Mathematics courses

and an overall average of at least a B in the remaining suggested courses.

The following, in addition to all requirements for the Mathematics major, are recommended:

1. Mathematics 136, 141 and 142
2. Computer Science 101, 112, 117 and 118 (knowledge of programming in C/C+ is essential)
3. Economics 1, 2, 101 and 102
4. Accounting 101
5. Marketing 101 Introduction to operations research and mathematical theory of interest are also recommended.

Minor in Computer Science or in Economics

The following are recommended for Mathematics majors who wish to minor in Computer Science or Economics:
Computer Science – Computer Science 101, 117, 118, 128, and 130;
Mathematics 136, 141, 142
Economics – Mathematics 141 and 142 and at least 12 credits from Economics 101, 102, 117, 118, 125 and 132

For Mathematics majors who wish to minor in secondary education, see the School of Education section.

B.S. in Mathematics

B.S., Mathematics

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

CS 101 Fundamentals of Computer Science and Information Sciences 3.00

Distribution Requirement

Must complete two courses numbered 100 or above in one of the following subjects: Computer Science, Economics, Teaching and Learning or Science.

Major Requirements

The following courses must be fulfilled:

MTH 101 Calculus II 4.00

MTH 102 Calculus III 4.00

Choose one (1) course from below:

MTH 105 Applied Mathematics 4.00

MTH 107 Advanced Calculus 3.00

Choose one (1) course from below:

MTH 106 Applied Mathematics 4.00

MTH 108 Advanced Calculus 3.00

Choose one (1) course from below:

MTH 121 Introduction to Modern Algebra 3.00

MTH 122 Linear Algebra 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 24 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Requirement: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Mathematics

Students who wish to minor in Mathematics are required to successfully complete, with a grade of C or higher, a minimum of 12 credits in courses numbered above 100. Courses taken as a graduation requirement for a major may not be applied to the minor. No more than 6 transfer credits may be applied to the 12 credit total.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Mathematics Courses

MTH 10 Basic Mathematics

College algebra. Algebraic operations; quadratic, exponential and logarithmic functions; basic geometric topics; right triangle trigonometry.

In order to register for MTH 10 one of the following requirements must be satisfied: DSM 09 or MW 9 is required or the placement exam; or a score of 460 or higher in the Math SAT exam; ; or a score of 22 or higher on the ACT Assessment exam.

Credits: 3

All Sessions

MTH 11Y Elementary Mathematics with Applications I

Review of elementary algebra, linear functions, graphs, slopes, straight lines, inequalities, applications, matrices, linear systems, determinants, systems of linear inequalities, linear programming, the graphical method, quadratic functions, parabolas, applications, exponential and logarithmic functions. Business mathematics topics are also covered such as: compound interest, discounts, annuities, depreciation, amortization and sinking funds.

Pre-requisite of MTH 10 is required.

Credits: 3

On Demand

MTH 11Z Fundamentals of Modern Mathematics

Elementary logic, sets and numeration; the development of number systems; natural numbers, integers, rational numbers, real numbers and complex numbers; functions, equations and inequalities; classical and modern geometries; measurement and mensuration; permutations, combinations, probability, and elementary statistics.

Pre-requisite of MTH 10 is required.

Credits: 3

Every Fall

MTH 12Y Elementary Mathematics with Applications II

Linear programming: the simplex method. Additional topics on matrices. Differential and integral calculus through the transcendental functions, with various applications.

Pre-requisite of MAT 11Y is required.

Credits: 3

On Demand

MTH 12Z Fundamentals of Modern Mathematics

Elementary logic, sets and numeration; the development of number systems; natural numbers, integers, rational numbers, real numbers and complex numbers; functions, equations and inequalities; classical and modern geometries; measurement and mensuration; permutations, combinations, probability, and elementary statistics. Offered as a tutorial with permission of the Department.

Pre-requisite of MTH 11Z is required.

Credits: 3

On Occasion

MTH 15 Mathematical Tools and Their Use

Inductive reasoning, proportions, elementary set theory and its applications; integers, rational numbers, irrational numbers and real numbers; rules of exponents and scientific notation; linear equations and inequalities; quadratic functions and their graphs; consumer mathematics; basic probability; selected topics in statistics. Calculator use is emphasized. Students are required to use a calculator specified by the instructor. Students who have taken MAT 16 or 11y are exempt from MAT 15.

In order to register for MTH 15 one of the following requirements must be satisfied: DSM 09 is required or the placement exam; or a score of 460 or higher in the Math SAT exam; ; or a score of 22 or higher on the ACT Assessment exam.

Credits: 4

All Sessions

MTH 16 Finite Mathematics

Selected topics from matrix algebra, linear programming, consumer mathematics, probability, theory of games, graphs, and trees. Students who have taken MAT 15 or 11Y are exempt from MAT 16.

In order to register for MTH 16 one of the following requirements must be satisfied: DSM 09 or MW 9 is required or the placement exam; or a score of 460 or higher in the Math SAT exam; ; or a score of 22 or higher on the ACT Assessment exam.

Credits: 3

All Sessions

MTH 30 Pre-Calculus Mathematics

Fundamental concepts of sets and the real and complex number systems; algebraic and trigonometric functions and relations; inequalities.

In order to register for MTH 30 one of the following requirements must be satisfied: MTH 10 or the placement exam; or a score of 530 or higher in the Math SAT exam; or a score of 25 or higher on the ACT Assessment exam.

Credits: 4

All Sessions

MTH 40 Calculus I

Limits and continuity; analytic geometry; theorems on derivatives and definite integrals; and various applications of such theorems involving exponential, logarithmic, trigonometric and hyperbolic functions.

Pre-requisite of MTH 30 is required.

Credits: 4

All Sessions

MTH 100 Introductory Statistics

Sampling techniques, measures of central tendency and variability, probability modes in statistical inference, estimation and hypothesis testing, the Chi-square test, regression and correlation. Not

open for credit to mathematics majors and minors. *Pre-requisites of MTH 10 or MTH 15 or MTH 16 are required.*

Credits: 3

All Sessions

MTH 101 Calculus II

Methods of integration; limits, indeterminate forms; approximations; parametric and polar equations, infinite series.

Pre-requisite of MTH 40 is required.

Credits: 4

Every Fall

MTH 102 Calculus III

Partial differentiation; multiple integration; center of mass, moments of inertia; vectors, solid analytic geometry, line integrals and Green's Theorem; elementary differential equations.

Pre-requisite of MTH 101 is required.

Credits: 4

Every Spring

MTH 104 Differential Equations

Linear equations with constant coefficients, applications, undetermined coefficients, variation of parameters, differential operators, Laplace transforms, systems of equations, equations of first order by higher degree, special equations of second order, power series solutions, methods of Frobenius, elementary partial differential equations, Fourier series, introduction into boundary value problems, existence and uniqueness of solutions.

Pre-requisite of MTH 102 is required.

Credits: 3

On Occasion

MTH 105 Applied Mathematics

Ordinary linear differential equations, including existence and uniqueness of solutions; series solution of differential equations, including Legendre polynomials and Bessel functions; Laplace transforms; matrices, determinants, eigenvalues and eigenvectors with application to linear systems.

Pre-requisite of MTH 102 is required.

Credits: 4

On Occasion

MTH 106 Applied Mathematics

Vector analysis, including vector algebra, vector differential calculus, line and surface integrals and the theorems of Gauss, Green and Stokes; Fourier series and integrals; partial differential equations, including boundary value problems; beta, gamma and error functions; asymptotic expansions.

Pre-requisite of MTH 105 is required.

Credits: 4

On Occasion

MTH 107 Advanced Calculus

The real number system, limits and continuity, differentiation and integration of elementary functions and functions of several variables, curves and surfaces, partial differentiation.

Pre-requisite of MTH 102 is required.

Credits: 3

On Occasion

MTH 108 Advanced Calculus

Multiple integration; infinite and power series; uniform convergence and limits; improper, line, and surface integrals; Fourier series; differential geometry.

Pre-requisite of MTH 107 is required.

Credits: 3

On Occasion

MTH 111 Complex Variables

Complex numbers; analytic function, Cauchy-Riemann equations, harmonic functions; elementary functions, mappings; the Cauchy-Goursat and Morera theorems; Cauchy integral formula, power-series: Laurent series; uniform convergence; residues and poles; conformal mapping.

Pre-requisite of MTH 102 is required.

Credits: 3

On Occasion

MTH 121 Introduction to Modern Algebra

A survey of the concepts of modern abstract algebra, including investigation of groups, fields and rings, with special attention to group theory.

Pre-requisite of MTH 40 is required.

Credits: 3

On Occasion

MTH 122 Linear Algebra

Vectors and vector spaces, matrices and determinants, eigenvalues and eigenvectors, linear systems, linear transformations.

Pre-requisite of MTH 40 is required.

Credits: 3

On Occasion

MTH 124 Introduction to Number Theory

Properties of integers, including divisibility and factorization; Euler and other number theoretic functions; theorems of Fermat, Euler and Wilson; primitive roots, quadratic reciprocity.

Pre-requisites of MTH 40 and MTH 12Y or MTH 12Z are required, or with approval of the Department.

Credits: 3

On Occasion

MTH 136 Numerical Analysis

Approximating polynomials, numerical solutions to algebraic and transcendental equations, numerical differentiation and integration, numerical solutions to differential equations.

Pre-requisite of MTH 102 is required.

Credits: 3

On Occasion

MTH 141 Elements of Probability

Combinatorial problems, discrete and continuous random variables, moments and generating functions, some probability distributions, the law of large numbers and the central limit theorem,

stochastic processes.

Pre-requisite of MTH 102 is required.

Credits: 3

On Occasion

MTH 142 Statistical Inference

Sampling and sampling distributions, particularly the t and F distributions; point and maximum likelihood estimation; confidence intervals; significance tests; testing hypotheses. Prerequisite: MAT 141.

Credits: 3

On Occasion

MTH 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MTH 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MTH 197 Independent Study

Independent study is designed to give students an opportunity to do independent work in Mathematics under the guidance of a member of the faculty. Requires permission of the Department Chair and the Dean.

Credits: 3

On Demand

Department of Physics

Professors Arons (Chair), Achuthan
Professors Emeriti Glickman, Kleinman, Clark
Assistant Professor Kavic
Adjunct Faculty: 5

Richard L. Conolly College does not offer a degree program in physics at this time. The Physics Department is primarily a service department supplying a sound underpinning for majors in pharmacy, physical therapy, and other health sciences as well as for chemistry and biology majors. In those courses, emphasis is placed upon understanding basic concepts and honing problem solving skills. In the course for liberal arts students, emphasis is placed on conceptual understanding. Topics covered in all physics courses include: Newtonian Mechanics, energy and its conservation, electromagnetism, optics, and an introduction to relativity and atomic and nuclear physics. Relevance to such areas as climate change, space exploration, alternative energies and nuclear radiation are examined.

Physics Courses

PHY 20 The Physical Universe

An introduction to the fundamental principles that govern the physical universe, including the behavior of particles smaller than an atom and objects larger than the sun. The basic laws of nature, various forces, and different forms of energy are explored. Examples are drawn from the physical, biological and chemical sciences and from applied technology. Three lecture hours, two laboratory hours.
The pre-requisite of DSM 09, or Math 15, or Math 16, or Math 30 or Math 40 is required. Course not open to science majors.

Credits: 4

All Sessions

PHY 27 Physics for Pharmacy

An introductory non-calculus-based physics course for freshman and sophomore Pharmacy majors. Selected topics in mechanics, fluid mechanics, electricity, magnetism, optics, modern physics and quantum mechanics are investigated. Two lecture hours, one two-hour recitation period, one two-hour laboratory period. (Note: Students interested in premedical and pre-dental programs or in BIO, CHE or PT are required to take PHY 31-32.)

Pre-requisite of MTH 30 is required.

Credits: 4

Every Fall and Spring

PHY 31 General Physics

The standard introduction to physics intended primarily for science majors, but may be taken by non-science students. First semester: mechanics, properties of matter, special theory of relativity, fluid mechanics, thermal physics, vibrations, waves and sound. Two lecture hours, one two-hour recitation period, one two-hour laboratory period.

Pre-requisite of MTH 30 is required.

Credits: 4

Every Fall and Spring

PHY 32 General Physics

The standard introduction to physics intended primarily for science majors, but may be taken by non-science students: electricity, magnetism, optics, relativity, atomic and nuclear physics. Two lecture hours, one two-hour recitation period, one two-hour laboratory period. Prerequisite: MAT 30 is a prerequisite for PHY 31.

Credits: 4

Every Fall and Spring

Social Science (Division III)

The Social Science Division offers majors in economics, history, political science, psychology, and anthropology/sociology. Each major provides the theoretical and practical background for entry into many private and government enterprises. An interdisciplinary major is available in the social sciences, and students can minor in every Social Science Division subject area, in addition to Latin American and Caribbean studies and Asian studies. Graduate study on the master's level is offered in most undergraduate majors (M.A., M.S.), and the Ph.D. is offered in clinical psychology.

Students must fulfill the requirements of the core curriculum, and satisfy the requirements of their major. Of the 128 credits required for graduation, at least 48 must be earned in courses numbered above 100.

Department of Economics

Professor G. Rodriguez (Chair)
 Professors: Emeriti Lombardi, Varma
 Assistant Professor: Kuklik
 Adjunct Faculty: 4

The major in economics offers a unique combination of theory and practical applications, preparing students to think analytically about real world economic problems. Not only is majoring in economics considered to be a lucrative option with remarkable job market versatility, but it also provides intellectual challenges likely to appeal to inquisitive minds. Indeed, this field usually attracts undergraduate students who enjoy using intuitive logical arguments to gain insight on socioeconomic problems and public policy issues. Their work is often inspired not only by practical considerations but also by their intellectual curiosity and a desire to contribute to society.

The program seeks to equip students with the basic tools needed to understand the operation of a modern economy, including the role of markets and organizations in the allocation of resources as well as the factors that determine income, employment and economic growth. Aside from the introductory economics sequence (Economics I and II), the Department offers a variety of more advanced elective courses, including Money and Banking, Economic Development, Industrial Organization, Government Regulation, Public Finance, Urban Economics, International Economics and other subjects. The underlying goal is to train students to use formal analysis and empirical observation to examine varied socioeconomic issues and to develop several valuable skills in the process, including the ability to apply logical thought to economic problems, the ability to observe and draw inferences from data and the ability to present economic ideas in compelling writing and speech.

Economics majors are encouraged to consider the possibility of complementing their studies with a minor in a discipline like business, mathematics, computer science, history, sociology or political science. Ambitious students often have embraced the challenge of double majoring in economics and one of the aforementioned disciplines.

An undergraduate education in economics also brings about a considerable vocational benefit. In pursuing an economics concentration, students are introduced to research methods and quantitative techniques, developing analytical skills and communication skills that constitute a relevant background for several professions. Indeed, the 128-credit B.A. in economics provides a sound foundation not only for graduate study and a career in economics but also for careers in business, law, public service, education, journalism, urban affairs, international relations and other fields. In particular, many undergraduate economics majors enroll in law schools and in graduate business programs after graduation. In addition, economics

majors seeking employment immediately after college often find job opportunities in management, insurance, real estate, financial analysis, computing systems, consulting, banking, sales and public administration.

Students preparing to teach in the field of Economics on the secondary school level should consult the Teaching and Learning section of the bulletin for further requirements.

B.A. in Economics

B.A., Economics

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(must take ECO 1 and 2)

Science and Mathematics

Mathematics* 3 or 4 credits

Sciences 10 credits

(BIO, CHEM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

* Students should consult with the Department chair

Ancillary Requirements

MTH 100 Introductory Statistics 3.00

Distribution Requirement

To satisfy this requirement, majors must complete two courses numbered 100 or above in one of the following subjects: MTH, HIS, POL, SOC, ANT, PSY, CS, MAN, MKT, ACC, FIN, QA (Introductory courses must be completed). A MTH distribution is strongly recommended for students who plan to pursue graduate studies in economics.

Major Requirements

- Must complete 24 credits in advanced Economics courses numbered 100 or above, selected in consultation with their Economics advisor.
- Three (3) Credits from Social Science 200 Series (Capstone Seminar).

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:

96 credits

Minimum Total Major Credits: 24credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: see above

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Economics

An Economics minor requires 12 ECO credits at or above the 100 level, in addition to a core ECO 1 or 2 class.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Economics Courses

ECO 1 Introduction to Economics

After an elementary introduction to the role of markets in allocating economic resources, this course focuses on the factors that determine aggregate income, employment and prices from a macroeconomic perspective. The course examines the interaction of markets for aggregate output, labor and money, addressing the role of the government in short-run stabilization and the factors that determine long-run economic growth.

Credits: 3

Every Fall, Spring and Summer

ECO 2 Introduction to Economics

This course provides an introduction to microeconomics, focusing on the role of markets in allocating economic resources. In the case of perfectly competitive markets, the behavior of firms and consumers, which can be represented in terms of supply and demand curves, leads to "socially efficient" equilibrium outcomes. However, market outcomes may not necessarily be efficient when markets are not perfectly competitive, justifying a role for the governments in promoting economic efficiency. The course also examines the government's role in promoting "equity" through taxation, stressing the possibility of a trade-off between efficiency and equity.

Credits: 3

Every Fall, Spring and Summer

ECO 101 Microeconomic Analysis

This course provides a detailed analysis of rational consumer and firm behavior, examining the relationship between such behavior and the efficient allocation of resources in the economy under different market conditions.

Credits: 3

Alternate Years

ECO 102 Macroeconomic Analysis

This course examines the factors that influence the level of national income and the unemployment rate, focusing on the role of aggregate real and financial markets in determining the overall performances of the economy. The course also examines the government's role in mitigating the effect of supply and demand shocks, and in promoting long run economic growth.

Credits: 3

On Occasion

ECO 105 Money and Banking

This course provides a systematic study of the monetary and financial institutions of a modern economy. Emphasis is placed on how various monetary factors affect real economic activity, and on the government's role in conducting monetary policy and regulating the financial system.

Credits: 3

Alternate Years

ECO 115 Industrial Economics

This course provides an introduction to Industrial Organization, a field that focuses on how firms, interacting through markets, attempt to exploit opportunities for profit. The standard models of perfect and imperfect competition are examined, emphasizing the strategic behavior of the interacting firms. Topics include pricing models and other strategic aspects of business practice, including entry deterrence, patent races and collusion.

Credits: 3

Annually

ECO 116 Government Regulation of Business

This course provides an introduction to industrial regulation, a field that focuses on how government policy can improve market performance. The role of economic and social regulation is examined, focusing on environments that exhibit market failure due to economies of scale, externalities and imperfect information. Topics include multi-product monopoly pricing and price discrimination, incentive regulation in presence of informational asymmetries and imperfect commitment, regulatory reform and deregulation, environmental regulation and regulation of the financial sector.

Credits: 3

Alternate Years

ECO 117 History of Economic Thought

This course surveys the principal currents of economic thought in their historical perspective. The leading economic schools and economists are emphasized. Such thinkers as Adam Smith, David Ricardo, Thomas Malthus, John Stuart Mills, Karl Marx, Leon Walras, Alfred Marshall and John Maynard Keynes receive particular attention.

Credits: 3

On Occasion

ECO 125 International Economics

This course provides an introduction to international trade, an area of economics that focuses on the causes and consequences of the presence of trade among nations. This course examines such fundamental topics as the concept of comparative advantage in the context of the Ricardian model, the connection between factor mobility and income distribution, the role of trade policy and protectionism in industrialized and developing economies, the presence of imperfect competition in international markets, and the globalization debate (same as International Business 125).

Credits: 3

Cross-Listings: ECO 125, IBU 125

Alternate Years

ECO 132 Comparative Economic Systems

An analysis of capitalism and non-capitalist systems. Special attention is paid to economic organizations

in the United States, problems of converting the former Communist countries of Eastern Europe to a market economy, social democracies of Western Europe, the economy of Japan and economic organizations of Communist China. Comparison is made of the economic performances of various systems.

Credits: 3

On Occasion

ECO 133 Public Finance and Fiscal Policy

This course provides an introduction to the microeconomic analysis of the public sector. It examines the government's role in a market economy, focusing on the regulation of externalities, the provision of public goods, the provision of social insurance, and the redistribution of income. In particular, it examines the major expenditure programs, including Social Security, Medicare, Education and Defense, as well as the generation of government revenues through taxation and deficit financing, addressing efficiency and equity considerations.

Credits: 3

Alternate Years

ECO 138 Economic Development

This course examines some of the economic challenges that emerge in connection to the development of poor areas. Discussion centers around the principles of economic growth, population problems, land reform, methods of capital accumulation and techniques of planning.

Credits: 3

On Occasion

ECO 140 Urban Economics

An analysis of economic problems arising in modern urban centers. Topics discussed include past and present economic functions of cities; location theory, urban labor and migration problems; and the economics of urban services, such as transportation, education, health and welfare. The impact of race, poverty and the urban ghetto are studied in the light of a central concern with the political economy of a highly urbanized society.

Credits: 3

On Occasion

ECO 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

ECO 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

ECO 197 Independent Study

Independent reading and research in the chosen field of economics. Training is provided in techniques of critical analysis and independent research. Three credits. Prerequisites: Senior year status and satisfactory of a minimum of 12 credits in advanced economics. Permission of the Chair and the Dean.

Credits: 3

On Demand

ECO 198 Independent Study

Independent reading and research in the chosen field of economics. Training is provided in techniques of critical analysis and independent research. Three credits. Prerequisites: Senior year status and satisfactory of a minimum of 12 credits in advanced economics. Permission of the Chair and the Dean.

Credits: 3

On Demand

Department of History

Professors Dorinson, Warmund (Chair), Wilson
Professors Emeriti Gabel, Lane, Necheles-Jansyn
Associate Professors Jones, Horstmann Gatti, Xia
Associate Professor Emeritus Reilly
Assistant Professor Agraït
Adjunct Faculty: 6

Studying history offers both personal rewards and practical advantages. Guided by a faculty of accomplished historians, students explore historical events through various lenses, analyzing political, social, cultural, and economic developments around the world in different time periods; this approach provides students with a global perspective on how the individuals, ideas, and conflicts of the past have shaped the world in which we live and how they may eventually help to guide our future. Through courses in American, European, African, Eurasian, Latin American, social and comparative history, students improve their analytical, research, writing, and communication skills that open doors to a broad range of challenging and better-paying careers.

The **128-credit B.A. in History** provides students with the knowledge and intellectual power that allow them to pursue multiple career paths. For example, this program can lead to fulfilling and successful careers in elementary, secondary and college teaching; law; journalism; archival and museum work; public and business history; and local and national history. History majors are encouraged to develop specific career objectives while pursuing undergraduate studies. Faculty mentors will assist students in exploring career possibilities and in devising a personalized plan of study that will best prepare them for their career goals.

Students preparing to teach on the secondary school level should consult the Teaching and Learning section for additional requirements.

B.A. in History

B.A., History

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits
(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits
(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
(ART, DNC, MUS, THE)

Distribution Requirement

To satisfy this requirement, students must complete two courses numbered 100 or above in one of the following subjects: Economics, Political Science, Psychology, Sociology, Anthropology.

Major Requirements

The following courses are required.

HIS 100 The American Experience 3.00

HIS 108 The United States in the
Twentieth Century 3.00

Two courses from the following are required.

HIS 120 The Middle Ages 3.00

HIS 124 The Beginnings of the
Modern World 3.00

HIS 125 The Western Impact on
the World 1789-1914 3.00

HIS 126 European Civilization in
the Twentieth Century 3.00

Two courses from the following are required.

HIS 141 The Ancient World 3.00

HIS 144 East Asia: The Modern
Period 3.00

HIS 157 History of Latin America 3.00

HIS 159 History of the
Contemporary World 3.00

- Four (4) additional advanced (above 100 level) History courses are required.
- One (1) course from the Social Science 223, 224 series is required.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:
96 credits

Minimum Total Major Credits: (Including HIS
core) 36 credits

Minimum Credits Above 100 Level Courses: 48
credits

Distribution Requirements: See above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in History

A History minor requires a total of 15 credits of History courses numbered 100 or above including HIS 100 or HIS 108.

Credit and G.P.A. Requirements

Minimum Total Credits: 15 Credits

Minimum G.P.A.: 2.0

History Courses

HIS 1 History of Civilizations to 1500

The evolution of civilization in Africa, the Americas, Asia, the Middle East and Europe until the voyages of discovery. Emphasis is placed on the growth of independent cultural traditions and diffusion of ideas, institutions and peoples.

Credits: 3

All Sessions

HIS 2 History of Civilizations Since 1500

The evolution of civilizations from the voyages of discovery through the scientific, political and industrial revolutions to the present. Emphasis is placed on the interaction of the Western and non-Western worlds.

Credits: 3

All Sessions

HIS 100 American Civilization I

A survey of the growth and development of the United States from the establishment of the British colonies in North America through the Civil War. This course will examine the evolution of American political, economic and social institutions and values, as they were created, challenged and changed throughout this period of history and will analyze the varying perspectives of people of different races, classes, religions, genders and regions.

This is a designated Writing Across the Curriculum (WAC) course, and all students will complete a research paper.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Bi-annually

HIS 103 The Colonial Period in American History

An examination of cultural and institutional developments in Colonial America, tracing roots in Europe and Africa, from Colonial times to causes, conduct and consequences of the Revolution.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 107 The Gilded Age and the Progressive Era in America

An examination of America's transition from an agricultural, rural and relatively homogeneous nation to one that is industrialized, urban and ethnically diverse. Topics covered include the processes of industrialization and urbanization; the role of immigration, race, class, ethnicity and gender; the impact of politics, corruption and reform movements.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 108 American Civilization II

A survey of the history of the United States from the end of the Civil War to the present. This course will examine the evolution of American political, economic and social institutions and values, as they were created, challenged and changed throughout this period of history and will analyze the varying perspectives of people of different races, classes, religions, genders and regions. This is a designated Writing Across the Curriculum (WAC) course, and all students will complete a research paper.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 109 Depression and Wartime America as Reflected in the Hollywood Film

Political, economic and social developments during the Great Depression in America and the course taken by the United States from neutrality to reluctant belligerency and, finally, to war. Lectures supplemented by Hollywood films.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 116 African-American History

The history of the black people of America from their African origins to the present, stressing themes of accommodation, protest and self-determination.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 117 The United States in the 1960s

The tumultuous decade of the 1960s in the United States: the Civil Rights struggle, the women's liberation movement, the New Left, the counterculture, and the largest youth rebellion in American history.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 120 The Middle Ages

Europe from the last centuries of the Roman Empire through the fourteenth century. The origin and development of attitudes and institutions characteristic of the Medieval period, including feudalism and the emergence of centralized government, the organization and spiritual mission of the church, commerce and the guild system, the place of women and children in society, and art and architecture.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 124 The Beginnings of the Modern World

A survey of European history from the Thirty Years War to the French Revolution, stressing forces promoting political, social and intellectual change in Europe itself while consolidating a system of colonial control and forced labor abroad.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 125 The Western Impact on the World 1789-1914

A study of the impact of the influence of the French and Industrial revolutions on European politics and society, with special emphasis on new ideologies and new class relationships, and the accompanying impact of European commercial dominance and imperial control of Asia and Africa.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 126 European Civilization in the Twentieth Century

A brief survey of the period of the two world wars and the rise of fascism and communism followed by a closer look at European society since 1945: the politics of the Cold War, economic recovery and evolution of the European Economic Community in the West, economic stagnation and political repression in the East, and the collapse of communism and the breakup of the Soviet Union.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 141 The Ancient World

A survey of the history of the Ancient World from the earliest civilizations of Egypt and Mesopotamia to the decline of the Roman Empire, with particular reference to the emergence of government and society, the spread of commerce, the place of art and architecture in public and private life, and the various roles of women.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 144 East Asia: The Modern Period

Traces the history of China, Japan and Korea from the period of extended Western contact from 1650 to the present. Includes such topics as the rise of nationalism and communism, the entry of East Asia into the family of nations, and the transformation of the traditional social structures that has accompanied the process of modernization.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Bi-annually

HIS 157 History of Latin America

A survey of the history of Latin America, including both the colonial and the national periods.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 158 American Foreign Relations: Since 1789

A survey of U.S. diplomatic history from 1789 to the present - the rise of the United States from thirteen Atlantic states into a transcontinental nation and global super power. Topics include the Revolutionary War; continental expansion; the Mexican War; late nineteenth-century imperialism; the Spanish-American-Cuba-Filipino War; Woodrow Wilson and World War I; 1920s unilateralism; FDR and World War II; the Cold War; Third World nationalism and U.S. interventions; the Vietnam War; and the Middle Eastern crisis.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 159 History of the Contemporary World

Survey of the contours and patterns of an emerging global civilization: World War II and the eclipse of Europe; the collapse of the colonial empires and the emergence of the Third World; ideology, politics and social forces in the new states of Asia and Africa; the strategies and failures of the superpowers; the growing tensions between the industrialized and non-industrialized sectors of the world.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 164 Women in History

The roles of women in the development of Western and non-Western societies from ancient times to the present, focusing on political participation, cultural creativity and discrimination.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 175 The Social History of Sports: A Search for Heroes

A study of the way in which Americans and others have played over time; an analysis of how athletes have mirrored the values and reflected the fantasies of their times.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

Rotating Basis

HIS 180 Culture and Society in Humor

An examination of humor as a key to

understanding the conflict and controls inherent in all cultures, inviting analysis, synthesis, and creation of comedy as a means of cracking the codes of American culture.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Occasion

HIS 190 Colloquium

Reading and group discussion of specially selected books of major historical importance. Emphasis on new interpretations. May be repeated for credit if subject matter differs. Offered as a tutorial with department approval.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Demand

HIS 195/196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Demand

HIS 197/198 Independent Study

Independent study enrollment requires Chair and Dean approval.

The pre-requisites of HIS 1 and HIS 2, or HHI 21 and HHI 22, are required.

Credits: 3

On Demand

Department of Political Science

Professors Ehrenberg (Chair), McSherry, Stevens Haynes, Sánchez

Professors Emeriti DiMaio, Werner

Assistant Professors Sheppard, Fahmy

Adjunct Faculty: 6

The American Political Science Association has developed a broad description of the discipline.

“Political Science,” it says, “is the study of governments, public policies and political processes, systems, and political behavior.” The profession's subfields include American politics, political philosophy, comparative politics, international relations and a host of related fields such as policy studies, political geography, political economy, and studies of particular countries or geographic areas. Political scientists use a variety of approaches to examine the process, systems and political dynamics of all countries and regions of the world.

Students majoring in Political Science must complete a 30-credit course of study. Several required courses introduce students to the discipline's traditional subfields and to different methods of analysis. There is also considerable room for student choice within the major, and the department offers ample opportunities for independent study, honors theses and internships. Students also may earn a minor in the discipline with 12 credits.

Students with expertise in the study of politics are always in great demand. Government, law, politics, business, journalism, non-profit organizations and education are broad areas of employment for Political Science students. Political Science is a favorite major for prospective lawyers, and it leads to careers in teaching, journalism and government service. Large corporations are always looking for employees with expertise in the analysis of public affairs, and organizations as different as charities, foundations, the armed forces, non-profits and police departments are eager to hire Political Science majors. A major in Political Science also can lead to careers as lobbyists, pollsters and commentators to college professors, activists and consultants. Students eligible to graduate as Political Science majors with honors must be accepted into the Senior Honors Thesis Program (Political Science 190-191).

B.A. in Political Science

B.A., Political Science

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Sciences 10 credits

(BIO, CHM, PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Distribution Requirement

To satisfy this requirement, must complete two courses numbered 100 or above in one of the following subjects: Economics, History, Psychology, Sociology, Anthropology.

Major Requirements - 30 credits

The following one (1) course is required:

POL 11 Power and Politics 3.00

One (1) Course from the following:

POL 150 World Politics 3.00

POL 151 American Foreign Policy 3.00

One (1) Course from the following:

POL 170 Classical Political Theory 3.00

POL 171 Modern Political Theory 3.00

The following one (1) course is required:

POL 185 Seminar: Political Inquiry 3.00

Additional Requirements:

- One (1) course required from American Institutions and Political Practices: POL 129-149
- One (1) course required from International Relations-Foreign Policy: POL 152-159
- One (1) course required from Foreign Political Systems Comparative Politics: POL 160-169
- Students are encouraged to take additional theory courses from POL 170 -179
- One (1) course from the Social Science (SSC) 223, 224 Capstone Series is required in the Senior year.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Criminal Justice

Students in any school or department may pursue an academic minor in Criminal Justice. The minor is for students interested in entering the field of criminal justice or an associated field, including the practice of law; working for lawyers; employment in criminal courts, government agencies, and organizations related to criminal justice; social work as relating to criminal justice; and journalism involving criminal justice issues.

Students, in consultation with the Political Science Department, may construct their minor to supplement and complement their major, and courses taken for the minor may be used, whenever appropriate, to satisfy elective, distribution, or major requirements.

For further information, consult the Chair of the Political Science Department.

Minor in Political Science

A Political Science minor requires 12 POL credits at or above the 100 level.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Political Science Courses

POL 11 Power and Politics

An introduction to the world of politics and power, from the workplace to the United States Supreme Court. Topics include the family, the community, the evolution of the nation-state, forms of political organization, state and federal governments, the Constitution, Congress, the presidency, and other political institutions and formations.

Credits: 3

Every Fall and Spring

POL 120 Power in America

What is the nature of power in American society? How is it distributed? How is it used? An examination of the different theories of social, economic and political power; the interrelationships among those types of power; the role of race and culture; and the effective use of power.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 121 The Legislative Process

An analysis of lawmaking at city, state and national levels. The impact of interests and constituents upon legislators is considered. Selected laws are evaluated through all stages.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 122 Presidential Elections

This course will study American presidential elections to investigate the applicability of electoral realignment theory. At the end of each session we will attempt to arrive at a consensus as to whether the election in question best represented the theoretical criteria of critical election; deviating, maintaining or realigning election; or component of secular realignment.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 123 Political Parties and Political Behavior

A study of the role of political parties in American government, including problems with respect to organization, finance, campaigns, issues and candidates; their relationship to the citizen-voter; and trends in recent studies on political leadership, election research and political behavior.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 124 The Media and American Politics

An evaluation of the role of the media in American

political life. Emphasis is on the effect of the media on leading domestic and foreign policy issues, including racism, McCarthyism, the Civil Rights Movement, Vietnam and Watergate. Media personalities who helped shape the national conscience are examined.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 125 The American Presidency

A study of executive powers and decision making; leadership and the electoral process; and the relationship of the President to pressure groups, political parties and the states.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 127 Women in 20th Century American Politics

An analysis of the emergence and development of women as a force in contemporary American politics. Political participation, voting behavior and other areas will be considered.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 130 The American Judicial System

A study of the function, structure and decision-making process in federal and state courts.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 145 Ethnic Politics

A survey of the role of ethnic groups in the American political system. Among the topics for analysis are ethnic roles in party organization; ethnic politicians; ethnic voting; conventional and militant ethnic organizations; ethnic issues in housing, education and employment; inter- and intra-ethnic conflict; the ethnic press; and other selected topics.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 146 The Politics of the Civil Rights Movement

An examination of the politics of democratic leadership, with emphasis on the evolution of the American Civil Rights Movement. Special emphasis is placed on the relationship between Martin Luther King and the movement he led.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 147 The Dynamics of Political Leadership

An exploration of the broad range of political leadership in communities, countries and the world, with a particular eye to identifying critical elements in the relationship between leaders and followers.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 148 Political Leaders and Community: A Practicum

The application of the theory of group leader process to real group and leadership experiences in the community. Students use participant observation, focus group meetings and other methods to probe the group-leader dynamic in formal and informal settings. Includes participation in community organizations and interviews or meetings with community residents or leaders who take action on particular policy concerns.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 150 World Politics

Introduction to the systematic study of international relations. The nature of state behavior in the international system - its parameters, major actors, forces and patterns of conflict and cooperation - are reviewed. The major theories of international relations are examined. Cycles of "hegemonic" leadership and the origins, scope and future direction of the international system are considered.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 151 American Foreign Policy

An introduction to the sources, processes, policies, goals and debates in American foreign policy since World War II. The focus is on the globalization of American foreign policy, the development of the Cold War, and American foreign policy in the Third World.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 153 International Political Economy

An introduction to the study of political economy: the interrelationships between politics and economics demonstrated by an examination of current issues, including development in the global South, economic restructuring in formerly Communist countries, foreign aid, the roles of transnational corporations, the International Monetary Fund and the World Bank, and the question of the link between democracy and free

markets. A review is conducted of major theoretical approaches and methodologies.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 154 Human Rights in International Politics

A study of the role of human rights in international politics and the impact of human rights considerations on foreign and domestic policies of states; the study of conceptual and historical issues, including the struggle between human rights claims and state sovereignty, the Cold War and the politicization of human rights, the significance of grassroots human rights movements in the world; and the role of the United Nations and non-governmental organizations. An analysis is made of case studies of human rights abuses and reactions of the international community.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 159 Geopolitics

This course will introduce the basic principles behind the concept of geopolitics in order to help students gain a better understanding of the environmental and geological forces that have shaped the political, economic and social trajectories of human societies throughout recorded history. It will examine how our ongoing interaction with these forces continues to shape our world today and ask whether modern science and technology has altered this balance or if the same patterns are simply repeating themselves on a larger scale.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 161 Concepts and Theories in Comparative Politics

A review of the basic theoretical frameworks, concepts, approaches and methodologies in comparative politics. The study of major authors, key texts and theories, including modernization, political culture, corporatism, dependency, bureaucratic authoritarianism, rational choice, democratic transition theory and others is conducted. Comparative analysis is made of distinctive political systems and their development.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 163 Music and Popular Struggle in Chile

The 1960s and 70s were a time of political and social change in Chile, and a new form of music known as New Song was a central feature of the social movement. Thousands of students, workers, and peasants organized to demand new rights and

social justice. Students fought for a major reform of universities to reorient them to help to solve the problems of the country. Peasants organized for land reform. Workers wanted a larger voice in their workplaces. Thousands worked for the election of socialist Salvador Allende for President.

Throughout, the musicians of the New Song movement sang for multitudes of people and their songs reflected the aspirations of millions of Chileans. The course examines this historical period (1960s-70s) in Chile and studies the music as well, particularly the ways in which New Song was interwoven with the movements for social and political change. Three credits.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: POL 163, SSC 240

On Occasion

POL 166 The Politics of Development

A study of the process of modernization and development, with examples from Latin America, Africa and Asia. The relationship between politics and economics, socialism and capitalism, and peasant, intellectual and bureaucracy are examined.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 167 Revolutionary Theory and Governments

An examination of the various approaches and theories of revolution developed to explain the major political and social revolutions and upheavals of our time. Revolutions can be studied for what they reveal about the political process, the breakdown of that process, the role of the state, international and domestic factors, the function of ideology and socio-political change.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 170 Classical Political Theory

An analysis of political thought from Socrates through the Middle Ages. Special focus is on the position of the individual, authority of the state, citizenship, liberty and order.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 171 Modern Political Theory

An exploration of political thought from Machiavelli through Marx. Questions of liberty, authority, obligation, the individual and the state are examined.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 173 American Political Thought

An examination of American political thought with respect to constitution-making, rights, the federal union, and trends in liberalism and conservatism.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 174 Contemporary Political Theory

An examination of the major trends in twentieth century political theory. Focus is on democratic thought, postmodernism, feminism, theories of justice, communitarianism, and liberal individualism, among others.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 175 Comparative Democratic Theory

A contextual and theoretical study of the development and maturation of modern democratic theory. Focus is on the development and critique of rights-based democratic theory and the problems associated with theories of justice, communitarianism, feminism and others.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 176 Marxism

A historical and theoretical introduction to the work of Karl Marx and Frederick Engels. The course examines the economic, political and ideological environment in which Marxism developed; considers Marx's and Engels' work in philosophy, economic history, politics, and ideology; and evaluates the content of their activities.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Alternate Years

POL 181 Contemporary Islamic Movements

An examination of the origin, nature, influence and future of contemporary Islamic political movements.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

POL 182 The Iraq War

This course is designed to help students understand and interpret the U.S. invasion and occupation of Iraq. The course examines a range of issues surrounding the war, including neoconservative ideology, the invasion from the perspective of Iraqis as well as other governments, the U.S. use of torture, and the impact of the war on civil liberties at home.

The pre-requisite of POL 11, or HSS 21, or HSS

22 is required.

Credits: 3

On Occasion

POL 185 Seminar: Political Inquiry

An analysis of the different ways political scientists ask questions and study politics. Emphasis is on understanding the major theoretical frameworks in the study of politics and the application of those theories to an important research problem in politics. Open to juniors and seniors only.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Spring

POL 190 Senior Honors Thesis

A year long program of work with a faculty mentor in shaping a thesis idea, developing a methodology, and writing a research thesis. To be eligible, students must be seniors with a major grade point average of 3.25 or better and an overall cumulative grade point average of 3.00 or better and have approval of the Political Science Department. Required for students wishing to graduate with honors as a Political Science major. Political Science 190 and 191 must be completed.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Fall

POL 191 Senior Honors Thesis

A year long program of work with a faculty mentor in shaping a thesis idea, developing a methodology, and writing a research thesis. To be eligible, students must be seniors with a major grade point average of 3.25 or better and an overall cumulative grade point average of 3.00 or better and have approval of the Political Science Department. Required for students wishing to graduate with honors as a Political Science major. Political Science 190 and 191 must be completed.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Spring

POL 195 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

All Sessions

POL 196 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in

their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Spring

POL 197 Independent Study/Internship

Research associated with working assignments closely related to the student's specific courses. Students may develop internships. Requires approval of the Departmental Chair and the Dean.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Fall

POL 198 Independent Study/Internship

Research associated with working assignments closely related to the student's specific courses. Students may develop internships. Requires approval of the Departmental Chair and the Dean.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

Every Spring

POL 200 Series Select Topics in Political Science

An opportunity to explore selected critical issues, problems and frontiers in political science. Topics vary from year to year.

The pre-requisite of POL 11, or HSS 21, or HSS 22 is required.

Credits: 3

All Sessions

POL 201 International Organizations

An examination of the United Nations and associated international institutions.

Credits: 3

Every Fall and Spring

Department of Psychology

Professors Duncan, Kose (Director, M.A. Program), Papouchis (Director, Ph.D. Program), Penn, Ramirez, Samstag, Schuman
 Professor Emeriti Allen, Fudin, Hurvich, Magai, Mcguire, Ritzler
 Associate Professors Kudadjie-Gyamfi (Chair), Meehan, Pardo, (Director, LIU Psychological Services), Wong
 Assistant Professors Cain, Haden, Saunders
 Adjunct Faculty: 10

B.A. in Psychology

Many of today's most pressing social problems relate directly to problems in behavior. Violence (at home or on the street), drug addiction and poor interpersonal relationships are just some examples of the types of issues explored in the field of psychology. Psychologists strive first to describe, understand and explain behavioral problems and also to contribute solutions to such problems, through careful collection of data, analysis of data, and development of intervention strategies.

The **128-credit B.A. in Psychology** provides students with a broad understanding of the principles that explain human behavior and interaction. In addition to learning the latest science and theory regarding human and nonhuman animal behavior, students in the program gain the vital skills and experience employers seek. These skills include research and writing skills, problem solving skills, and, well-developed, higher-level thinking ability as evidenced in analyzing, synthesizing and evaluating information.

In addition to working directly in psychology-related fields such as counseling and teaching, our students and graduates find jobs in such varied areas as public affairs, education, business, sales, service industries, health, the biological sciences. They also work as employment counselors, correction counselor trainees, interviewers, personnel analysts and probation officers.

About the Field of Psychology

Psychology is a broad discipline, encompassing subjects that range from biology to sociology. Biology studies the structures and functions of living organisms. Sociology examines how groups function in society. Psychologists study the intersection of two critical relationships in these fields; particularly, the relationships between brain function and behavior and between the environment and behavior. Psychologists employ scientific methods, including careful observation, experimentation and analysis, to develop and test theories through research.

Psychology has many subfields, including clinical, counseling, cognitive and perceptual, developmental, educational, experimental, evolutionary, and engineering psychology. Other subfields include forensic psychology,

neuropsychology, industrial/organizational psychology, quantitative and measurement analysis, rehabilitation and social psychology.

Learn more about psychology and its many subfields and career opportunities by visiting the website for the American Psychological Association at apa.org.

B.A. in Psychology

B.A., Psychology

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Psychology 3 credits

Social Sciences 3 credits

(ANT, ECO, POL, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 8 - 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Distribution Requirement

- Six credits or two courses of upper-level Biology (BIO) or
- Six credits or two courses of upper-level Philosophy (PHI) or
- Six credits or two courses of upper-level Sociology (SOC) or
- Six credits or two courses of upper-level Teaching & Learning (TAL)

Major Requirements

The following three (3) courses are required, (students must receive a grade of C or better in PSY 150 to enroll in PSY 151)

PSY 125 Contemporary Systems of Psychology 3.00

PSY 150 Statistics in Psychology 3.00

PSY 151 Experimental Psychology 4.00

A minimum of six (6) upper-level Psychology courses totaling eighteen (18) credits are required

Social Science Capstone Requirement

Choose One of the Following Two Courses:

SSC 223 Capstone Seminar in the Social Sciences 3.00

SSC 224 Capstone Seminar in Social Seminar 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 33 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Psychology

A Psychology minor requires 12 PSY credits at or above the 100 level, in addition to the core PSY 3 class.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Psychology Courses

PSY 3 Introduction to Psychology

An introduction to the basic concepts and empirical data in the scientific study of human behavior, including a study of the biosocial basis of behavior and personality development, the measurement of individual differences, processes of learning, sensorimotor functions, social interaction, and emotional conflict and adjustment.

Credits: 3

Every Semester

PSY 107 Developmental Psychology I

An examination of human development from birth through the adolescent years. Topics covered include social-emotional development and changes in intellectual functioning. Also considered are special issues such as infant care, schooling and the effects of the community on development. Not open to students who have completed Teaching and Learning 250.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 108 Developmental Psychology II

A lifespan approach to human development and an examination of development from puberty through adulthood to old age. Topics discussed focus on crucial issues throughout that period, such as the establishment of a career, the influence of family and community, retirement, and the impact of conception and death. This course should be taken in the semester immediately following the semester in which Psychology 107 was completed.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 109 Personality

A study of the dynamics of personality adjustment, with an analysis of constitutional and environmental interaction in personal development, with some attention to different theoretical viewpoints.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 110 Abnormal Psychology

A study of how clinical psychologists think about behavior that might be considered "abnormal" or "pathological" in modern life. Concepts related to defining and diagnosing disorders will be discussed, and these concepts will be applied to a variety of specific diagnoses such as mood, anxiety and personality disorders. Individual cases will be discussed that illustrate principles related to causation, diagnosis, treatment, and prevention of a range of disorders. Prerequisite: Psychology 109.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 113 Social Psychology

A study of human nature and behavior as influenced by the social environment, emphasizing the relationship of culture and personality and the psychological implications of individual and group differences. The theoretical and methodological bases of applications of behavioral science to social problems are examined.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 115 Group Dynamics

A review of principles and research findings on interpersonal relationships and social interests in small groups as well as social institutions and culture and their applications to education, community action, and political life.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 116 Introduction to Clinical Practice

A survey of the mental health professions; past, present, and future roles of the clinical psychologist; assessment and treatment; and major research issues. Concurrent practicum experience may be required. Designed primarily for psychology majors who plan to do graduate work in one of the mental health professions, particularly clinical psychology.

Pre-requisite of PSY 3, PSY 109 and PSY 110 are required.

Credits: 3

On Occasion

PSY 117 Psychology of Women

An examination of the relevance of gender to the experiences of the individual and the overall functioning of society. Theories that come from all major areas of psychology - physiological, comparative, cognitive, developmental, personality - provide insight into the position of women in culture. The primary objective is to use historical, theoretical and comparative information to understand current gender relations. Same as HUM 117.

The pre-requisite of PSY 3 or HPS 21 is required.

PSY 118 Biopsychology

An examination of the neuroanatomical, neurochemical and neurophysiological correlates of behavior. After reviewing the structure and function of the nervous system, neural communication, and research and clinical methods, the focus is on sensory and motor systems; sleep; reproductive, emotional and ingestive behaviors; learning and memory; language; and selected mental disorders.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 119 Psychology of Art

An exploration of the psychological aspects of both the creation and interpretation of art, focusing mainly, but not exclusively, on modern and postmodern visual art and its relation to modern life. Topics include basic concepts and problems in the psychology and philosophy of art, the role of modern art in contemporary society, and the relationship of the artistic imagination to other forms of creativity. In addition, opportunities are provided to view, experience and comment on art exhibits in the New York City area.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 120 Psychology of Perception

A review of selected theories of perception as well as certain philosophical questions that bear upon such theories and experimental findings. The development of perceptual processes and personality aspects involved in perceptual processes (e.g., cognitive styles) are also covered.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 121 Learning and Memory

An examination of historical and current theories and research in learning and memory. Behavioral, cognitive and psychoanalytic perspectives are included, and influences of culture, pathology and development on learning and memory are discussed - all leading to an examination of how such information can be used in education, treatment and everyday life.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 124 Cross-Cultural Issues in Psychology

An introduction to issues of particular significance to different cultural groups in the United States and elsewhere. Cultural differences related to the psychology of the individual and family, norms, and mental health issues, as well as dominant and minority group membership issues are discussed.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 125 Contemporary Systems of Psychology

A review in depth of the philosophic roots as well as the major contemporary schools of thought in psychology, such as behaviorism, psychoanalysis, existentialism, gestalt, and biosocial theory.

Comparisons are made of the various schools, and appraisals of specific contemporary issues, with special attention to the leading proponents of each school, are conducted.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 126 Psychology and the Law

An examination of the various ways in which psychology and criminal and civil law interact. Topics include the insanity defense and competence to stand trial, the legal rights of mentally ill persons (e.g., involuntary hospitalization), predicting potential violence, the death penalty, sex crimes and offenders, eyewitness identification, hypnosis and polygraph testing, jury selection and jury law.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 127 Cognition

A survey of the history, theories and methods of cognitive psychology. An examination is made of such topics as attention, thinking, problem solving and memory. Applications to computer systems theory are covered.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 128 Fieldwork in Psychology

Students perform eight hours of supervised volunteer work per week in applied psychology in an approved community/social service agency - for example a daycare center, a drug abuse center, a program for pregnant teenagers. In conjunction with the supervised experience, students meet as a group once a week to integrate what they are doing with the more traditional theoretical/academic work. Students must find their own placements. Prerequisite: At least 15 credits in advanced Psychology.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 150 Statistics in Psychology

A study of statistical concepts and techniques employed by the psychologist, including measure of central tendency, variability, relative position and association; concepts of probability and sampling; and techniques of estimation and hypothesis-testing. Prerequisite for Experimental Psychology; a grade of C or better is needed in this course in order to take Experimental Psychology.

The pre-requisite of MTH 15 or MTH 16 is required.

Credits: 3

Every Semester

PSY 151 Experimental Psychology

A survey of the methods used in psychological research. Students learn how to design and conduct experiments, to analyze the results, and to write research reports in standard American Psychological Association format. Discussions include such issues as the use of the methods appropriate to the kind of questions raised, and the way research methods influence the kind of information obtained. A grade of C or better is needed in PSY 150 (pre-requisite) in order to take

this course.

Pre-requisites of PSY 3 and PSY 150 are required.

Credits: 4

Every Semester

PSY 189 Biofeedback and Self-Regulation

Biofeedback is a psychotherapeutic modality which provides individuals with information about certain aspects of their physiological functioning as an aid in treating a variety of conditions including stress, anxiety, ANHD, headache, Reynaud's disease, etc. This course provides an introduction to biofeedback principles and practice, and fulfills the knowledge domain requirements recommended set forth by the Biofeedback Certification Institute of America for biofeedback technicians.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

On Occasion

PSY 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed. Three credits per semester.

The pre-requisite of PSY 3 or HPS 21 is required, and a cumulative GPA of 3.0 or greater.

Credits: 3

On Occasion

PSY 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisite of PSY 3 or HPS 21 is required, and a cumulative GPA of 3.0 or greater.

Credits: 3

On Occasion

PSY 197 Independent Study

Independent Study is designed to give students an opportunity to do independent work in their major under the guidance of a member of the faculty.

There are no regular class meetings. To be eligible, students must have the permission of the Chair of the Department and the Dean. A total of six credits of Independent Study (from PSY 197 and PSY 198) is the maximum allowed. Prerequisite: Permission of the Chair of the Department and the Dean.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

PSY 198 Independent Study

Independent Study is designed to give students an opportunity to do independent work in their major under the guidance of a member of the faculty.

There are no regular class meetings. To be eligible, students must have the permission of the Chair of the Department and the Dean. A total of six credits of Independent Study (from PSY 197 and PSY 198) is the maximum allowed. Prerequisite: Permission of the Chair of the Department and the Dean.

The pre-requisite of PSY 3 or HPS 21 is required.

Credits: 3

Every Semester

Department of Sociology/Anthropology

Professors Emeriti Carden, Hittman, Rosenberg
Associate Professors Hendrickson (Chair), Kim,
Barton, Ali, Juwayeyi

Associate Professor Emeriti Gritzer, Harwood
Assistant Professor Emeritus Sherar
Adjunct Faculty: 8

Sociology and anthropology are allied social science fields dedicated to exploring the fact that every aspect of our identity is shaped by our relationships with others. These disciplines help us to understand ourselves, the people around us and those whose ways of living are different from our own. Sociologists and anthropologists produce research that influences local, national and international policy-making.

Central to the interests of sociologists are: inequality; race; gender and ethnic relations; poverty; globalization; and social institutions like the family, religion, government and business. Anthropologists address many of the same issues but with a cross-cultural approach and a stronger focus on ritual, language and symbolism. Anthropologists also bring prehistory and the place of human beings as primates into our understanding of what it means to be human. Both sociology and anthropology take a scientific approach to understanding human social behavior. While sociologists have historically relied more on statistical analysis, anthropologists have developed a distinctive method, ethnography, which involves immersion in the languages and cultures of others.

This joint degree fosters the intellectual and personal growth necessary to make us more flexible, analytical and tolerant human beings. These qualities are always in demand and are essential to working and living in an ever-more complex world.

All of the Department's full-time faculty members hold Ph.D.s and have conducted field research in various regions around the world, bringing a global awareness to everything they teach. They are active scholars who publish and do research in addition to teaching and contributing to campus and university life.

For almost a century, sociology and anthropology have been seen as indispensable learning for anyone who wants to build a career working with people. Understanding human diversity is essential in today's world, and sociology and anthropology provide the education to understand and explain that diversity. Employers and graduate programs actively seek students who have studied liberal arts and sciences fields like sociology and anthropology. Famous students of sociology have included the Rev. Dr. Martin Luther King Jr; famous anthropology students have included Johnetta Cole (former President of Spelman College), Makaziwe Mandela and Yo-Yo Ma. Their accomplishments reflect the unlimited range of careers that can start

with a degree in these fields. Our graduates go on to work and obtain graduate degrees in government, human and social services, education and outreach, public and business administration, non-profit management, advertising, ministry, the arts and market research.

Students interested in studying in the Department of Sociology-Anthropology can speak with any Soc-Anthro faculty member or the Chair 718-780-4077.

B.A. in Sociology-Anthropology

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences (ANT 4, ANT 5, 6 credits
SOC 3)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts (ART, 3 credits
DNC, MUS, THE)

Distribution Requirement

Must complete two courses numbered 100 or above in one of the following subjects: Economics, History, Psychology, Political Science. (Introductory courses must be completed.)

Major Requirements

The following two courses are required:

SOC 111 Social Research 3.00

ANT 137 Ethnography 3.00

One (1) of the following two courses is required:

SOC 116 Sociological Theory 3.00

ANT 117 Anthropological Theory 3.00

Fifteen (15) additional credits in Advanced (above 100 level) Sociology - Anthropology required.

One (1) course from Social Science 200 series required. (Must be a Senior Capstone Seminar)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 27 credits

Minimum Credits Above 100 Level Courses: 48

credits

Distribution Course Requirements: See above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Sociology-Anthropology

A Sociology-Anthropology minor requires four courses above 100 with either ANT 5 or SOC 3 serving as a prerequisite.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits

Minimum G.P.A.: 2.0

Anthropology Courses

ANT 4 Physical Anthropology

The most recent findings of primate ethology are combined with fossil discoveries by physical anthropologists and archaeologists for a comprehensive survey of human origins in Africa and human prehistoric development from six million years ago to the rise of civilization.

Credits: 3

On Occasion

ANT 5 Cultural Anthropology

An introduction to the anthropological concept of culture as species-specific behavior: the invention and use of symbols; cultural processes such as innovation, diffusion, tradition and boundary-maintaining identity mechanisms; the use of the comparative method in examining cross-cultural commonalities and differences; the problem of cultural relativism. Case studies are drawn from a variety of cultures worldwide. Selected topics include witchcraft, magic; mana and taboo; marriage and funeral ritual; art, music and dance.

Credits: 3

Every Semester

ANT 105 Religion and Society

An examination of some of the many forms of religion, especially world religions, such as Christianity and Buddhism, with an attempt to understand why religion is found in every society, how people define and explore the supernatural, how they employ religion in their everyday lives, how religion relates to other aspects of society, and who the major theorists of religion are.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 105, SOC 105

On Occasion

ANT 106 Communication in Mass Society

An overview of the interrelationships of communications and society, including an examination of the growth and change of mass media throughout the world - with special emphasis on public opinion and its effect on American society and politics. Media ethics and various attempts to make the media socially responsible are also covered.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 106, SOC 106

On Occasion

ANT 107 Migration

An introduction to basic issues surrounding the phenomenon of international migration, examining how immigrants adjust economically and socially to their new homes, what factors lead to people leaving their homes, and how migrants maintain

ties with home even after settling abroad. Special attention is paid to gender issues, looking at how migration affects women differently than men.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

ANT 109 Social Movements

Analysis of cults and messianic and revolutionary movements inspired by prophets and leaders; the nature of charisma and prophesy; social circumstances giving rise to social movements, as well as their success or failure.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 109, SOC 109

On Occasion

ANT 112 Race and Ethnicity

An exploration of the variety of meanings of race and ethnicity in the social, political and economic life of America and other societies. Special emphasis is placed on the experience of African-Americans, Latinos and immigrant groups, especially the effects of racism on personal, institutional and societal levels. The goal is to enhance students' awareness of the subtlety of stigmatizing and stereotyping attitudes in order to build a foundation for culturally sensitive social interaction and effective interventions. Students are required to complete a field research project.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 112, SOC 112

Annually

ANT 113 Urban Anthropology/Sociology

This course explores: the defining elements of cities from sociological and anthropological perspectives; the rise and fall of cities; the special benefits and challenges of urban life; analytical frameworks for studying cities; the ways that being an urbanite shapes one's experience; New York City in all its fantastic detail.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 113, SOC 113

On Occasion

ANT 117 Anthropological Theory

A survey of the leading schools of cultural anthropological theory, with emphasis on their representatives and contemporary developments in the field. (Offered to students with an Anthropology concentration.)

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

ANT 119 Marriage and the Family

A consideration of ideas about family and kinship in the US and in cultures across the world. Topics for discussion may include: the linkages between marriage and divorce patterns, gender roles and changing economic realities; the residential group as the setting for socialization, ritual, the contestation of authority and potential violence and abuse; the politicization of family models in public life and the media; national, cultural, ethnic and generational differences in ideas of family; family tensions in the context of migration and transnational living; the effects of changes in family life on vulnerable groups such as children, the disabled and the elderly.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 119, SOC 119

Annually

ANT 121 Body/Dress/Culture

This course addresses the ways that dressing the body differ cross-culturally and historically, shaping and being shaped by critical aspects of social and cultural identity. We look at ritual costumes, subculture uniforms and fashion in a global perspective. We explore the myriad ties between dress and gender, the relation between clothing, political identities and religious belief, the ways that dress has been historically shaped by body movement and cloth/clothing as a local, historical and global commodity. Readings draw from the extensive literature on these subjects within anthropology, sociology, cultural studies and fashion and art history.

Credits: 3

Cross-Listings: ANT 121, SOC 121

On Occasion

ANT 125 Globalization

The course takes a multicultural approach to analyzing the global impact of nationalism, capitalism, communism, technology, and world religions on societies and cultures of varying scale.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 125, SOC 125

On Occasion

ANT 126 Gender, Culture and Society

Examines the gendered dynamics of social and cultural relations. Explores how gender is imagined, constructed and lived across a broad spectrum of historical periods, institutions and cultural locations. Special attention is paid to the ways in which "gender" as practice, performance and representation has differed for women and men according to race, class and other divisions.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 126, HUM 126, SOC 126
Annually

ANT 128 Criminology

An examination of crime in modern society: the extent and social cost of violent, property, white-collar, corporate and organized crime and the accuracy of crime statistics. Crime prevention and punishment are also considered.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 128, SOC 128

On Occasion

ANT 130 Socialization: The Self and Society

An analysis of the processes by which individuals become socialized - that is, acquire the cultural knowledge they need to be functioning members of their society. Sociological and anthropological perspectives are offered on selected topics such as: the social self, role theory, symbolic interaction systems, ritual, popular culture and social media. The tensions between individualism and collectivism are explored.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 130, SOC 130

On Occasion

ANT 132 Anthropology/Sociology of the Bible

A study of Hebraic-Christian roots in Sumeria and Egypt; the rise of the Israelite Sacral League of Yahwists in Canaan and its transformation into the Davidic monarchy; prophets; apocalyptic Messianic beliefs; the origins of Christianity. An archeological, historical and linguistic examination is made of the peoples of the Hebrew and Christian Bibles, employing sociological and anthropological models and theories.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 132, SOC 132

On Occasion

ANT 133 African Cultures and Societies

An analysis of the diverse forms of socio-political groupings in Africa, the nature and effects of European colonialism on smaller-scale African societies and cultures, and the emergence of independent nation-states on the continent.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 133, SOC 133

Annually

ANT 137 Ethnography

An in-depth look at the methods, theory and data involved in the production of ethnographic texts by cultural anthropologists. Along with cross-cultural comparison of societies with respect to economy,

social organization, political structure, gender relations and similar topics, discussion focuses on the anthropologist's role as collector, translator and interpreter and the ways in which social scientific research reflects both the politics of its time and the ethics of doing fieldwork. Required course for all Sociology-Anthropology majors.

Of the following courses only one (1) pre-requisite is required: SOC 3, ANT 5, HSS 21, or HSS 22.

Credits: 3

Annually

ANT 141 Archaeology: An Introduction

An analysis of the methods and techniques employed by archeologists to discover, reconstruct and date prehistoric and historic cultures and to link human life with its recent and remote past.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

ANT 142 Native Americans Before Columbus

An archeological and ethnographic survey of the diverse native American cultures in North America and Mexico before the European conquest:

Beringia, Paleo-Indians, Mound Builders, Vision Quest, Sun Dance - with a concentration on selected topics.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 142, SOC 142

On Occasion

ANT 143 Native Americans Today

An examination of the devastating consequences of exploration, trade and settlement (e.g., epidemics) that followed European expansion into North America and Mexico; the variety of Native American responses to conquest; the lives of Native Americans today.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 143, SOC 143

On Occasion

ANT 149 Shamanism and Witchcraft

A look into powerful oral folk systems of spirituality, including ancestor worship, voodoo and shamanism. Students use cross-cultural comparison to study spirit possession, magic, rites of passage, divination, healing, and witchcraft and sorcery. Folk religions are examined to show how ritual helps to explain suffering, death and misfortune, to promote morality and heighten social solidarity, and to legitimize authority. They are also explored as a source of solace and resistance for marginalized and oppressed people.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 149, SOC 149

Annually

ANT 152 Folklore

A survey of folktales, myths, legends, ballads, folk songs, jokes, riddles, the blues, rapping and so on. Diverse forms, functions and interpretations of oral literature around the world are examined.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 152, SOC 152

On Occasion

ANT 153 Islamic Societies

The central aim of this course is to introduce students to basic issues surrounding the lived experiences of Muslims in different social settings around the world. We start with the notion that the meaning of being Muslim is variable over time and place, dependent on the particular context in which Muslims live. We will examine in detail variations in religious and cultural practices, patterns of gender inequality, and critiques of the structuration of Muslim social realities by other Muslims.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 153, SOC 153

On Occasion

ANT 160 Popular Culture

An introductory survey of the study of popular culture. Drawing on recent work in contemporary cultural anthropology, the course examines race, sex and class dynamics and their intersection with issues in popular culture on a variety of topics and in different world regions, with special attention to music, dance, and film in the U.S. and the Caribbean.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 160, SOC 160

Annually

ANT 161 Sociology/Anthropology of Sport

An investigation into and analysis of the significance of sports as social phenomena. Readings and discussions go beyond scores, statistics, standings and personalities to focus on the "deeper game" associated with sports, the game through which sports become an integral part of the social and cultural worlds in which people live. *The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.*

ANT 165 Art, Culture and Society

An investigation into the relationship between art and the cultures and societies that produce it. The course explores the meaning of art in different social and cultural contexts, the use and production of art in daily and ritual life, and the political and performative potential of artistic forms. Music and dance, masks and pottery, cloth and carvings, altars and architecture, for example, are explored in their

social and cultural settings. The particular traditions/genres studied will vary with the expertise of occasional guest teachers/artists. The course will make use of the many venues for viewing art in New York City.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 165, SOC 165

On Occasion

ANT 171 Asian Cinema

Special topics in the sociological analysis of the production, distribution and consumption of Asian films.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 171, MA 171, SOC 171

On Occasion

ANT 173 African Civilizations

This course examines African civilizations from the earliest period to the age of the Atlantic Slave trade. The abandonment of a hunting and gathering way of life and the introduction of agriculture and metallurgy has been seen as one of the major indicators of an emerging civilization. Recent archaeological research suggests that several areas of Africa experienced this kind of transformation independently. This course will explore the nature of that transformation and how it affected Africa's economic, political, and social development. Further, the course will examine the influence that African civilization has had on other cultures in the Old World.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 173, SOC 173

Bi-annually

ANT 181 Africa Forum Event

The annual Africa Forum is a one-day conference that brings special speakers and events to LIU Brooklyn. Its goal is to enable students to learn more about the African continent, its people and its role in world affairs. Information about event scheduling as well as assignments required by the associated one-credit course can be obtained in advance from the Department of Sociology-Anthropology.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 1

Cross-Listings: ANT 181, SOC 181

Every Fall

ANT 188 Meditation Workshop

This course will take a secular and experiential approach to learning about meditation practices used in different cultures around the world. After completing preparatory reading assignments, students will attend two day-long workshops on campus to practice specific meditation techniques.

They will complete other reading, writing and practice assignments at home. This work will result in a final essay paper. Information about the one-credit course must be obtained in advance from the Department of Sociology-Anthropology. Please note: students MUST ATTEND both workshops to be considered enrolled in the course.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 1

Cross-Listings: ANT 188, SOC 188

Every Spring

ANT 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00, a 3.25 ratio in their major, and the permission of the Chair of the Department and of the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

ANT 197 Independent Study

Students undertake rigorous, semester-long independent work under the supervision of a faculty member. The topic and specific assignments to be completed must be agreed upon in advance and approved by the Department Chair and the Dean.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

ANT 198 Independent Study

Students undertake rigorous, semester-long independent work under the supervision of a faculty member. The topic and specific assignments to be completed must be agreed upon in advance and approved by the Department Chair and the Dean.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

Sociology Courses

SOC 1 Professional Development

An integrative seminar that introduces students who are in or have completed an internship or fieldwork experience to 21st century workplace culture, dynamics and issues, and provides them with an analytical framework within which to relate the practical world of professional work to the theoretical world of academic learning. Students in all majors and in all kinds of field placements join in the cross-disciplinary exploration of experience-

enriched education. This course is a prerequisite for advanced field placements.

Credits: 3

Cross-Listings: COOP 2, SOC 1

Every Fall, Spring and Summer

SOC 3 Introduction to Sociology

This course provides us with the language to understand what we experience in our lives and how we are connected to others. Students will be introduced to key concepts, theories and methods involved in what is called "the sociological imagination." They will put these ideas to work investigating contemporary social trends and current events. Important topics include: social change; social structures; culture; city life; economy and technology; deviance and social conflict; inequality; the social causes and consequences of human behavior in local and global terms.

Credits: 3

Every Fall, Spring and Summer

SOC 105 Religion and Society

An examination of some of the many forms of religion, especially world religions, such as Christianity and Buddhism, with an attempt to understand why religion is found in every society, how people define and explore the supernatural, how they employ religion in their everyday lives, how religion relates to other aspects of society, and who the major theorists of religion are.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 105, SOC 105

On Occasion

SOC 106 Communication in Mass Society

An overview of the interrelationships of communications and society, including an examination of the growth and change of mass media throughout the world - with special emphasis on public opinion and its effect on American society and politics. Media ethics and various attempts to make the media socially responsible are also covered.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 106, SOC 106

On Occasion

SOC 107 Migration

An introduction to basic issues surrounding the phenomenon of international migration, examining how immigrants adjust economically and socially to their new homes, what factors lead to people leaving their homes, and how migrants maintain ties with home even after settling abroad. Special attention is paid to gender issues, looking at how migration affects women differently than men.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

On Occasion

SOC 109 Social Movements

Analysis of cults and messianic and revolutionary movements inspired by prophets and leaders; the nature of charisma and prophesy; social circumstances giving rise to social movements, as well as their success or failure.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 109, SOC 109

On Occasion

SOC 111 Social Research

A general introduction to the methods used in designing, carrying out and analyzing social science research. The goal is to enable students to conduct small-scale studies and to be intelligent consumers of research. A broad range of qualitative and quantitative approaches are discussed. Required course for all Sociology-Anthropology majors.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Annually

SOC 112 Race and Ethnicity

An exploration of the variety of meanings of race and ethnicity in the social, political and economic life of America and other societies. Special emphasis is placed on the experience of African-Americans, Latinos and immigrant groups, especially the effects of racism on personal, institutional and societal levels. The goal is to enhance students' awareness of the subtlety of stigmatizing and stereotyping attitudes in order to build a foundation for culturally sensitive social interaction and effective interventions. Students are required to complete a field research project.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 112, SOC 112

Annually

SOC 113 Urban Anthropology/Sociology

This course explores: the defining elements of cities from sociological and anthropological perspectives; the rise and fall of cities; the special benefits and challenges of urban life; analytical frameworks for studying cities; the ways that being an urbanite shapes one's experience; New York City in all its fantastic detail.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 113, SOC 113

On Occasion

SOC 116 Sociological Theory

A review of the contributions of major sociological theorists to the analysis of social change (social classes, economics/technology, ideas); social order (collective agreements, force); the relationship between the individual and society (nature, nurture,

social responsibility, free will). Required for all majors in Sociology-Anthropology except those concentrating in Anthropology. Recommended for Anthropology concentrators.

Of the following courses only one (1) pre-requisite is required: SOC 3, ANT 5, HSS 21 or HSS 22.

Credits: 3

Annually

SOC 119 Marriage and the Family

A consideration of ideas about family and kinship in the US and in cultures across the world. Topics for discussion may include: the linkages between marriage and divorce patterns, gender roles and changing economic realities; the residential group as the setting for socialization, ritual, the contestation of authority and potential violence and abuse; the politicization of family models in public life and the media; national, cultural, ethnic and generational differences in ideas of family; family tensions in the context of migration and transnational living; the effects of changes in family life on vulnerable groups such as children, the disabled and the elderly.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 119, SOC 119

Annually

SOC 121 Body/Dress/Culture

This course addresses the ways that dressing the body differ cross-culturally and historically, shaping and being shaped by critical aspects of social and cultural identity. We look at ritual costumes, subculture uniforms and fashion in a global perspective. We explore the myriad ties between dress and gender, the relation between clothing, political identities and religious belief, the ways that dress has been historically shaped by body movement and cloth/clothing as a local, historical and global commodity. Readings draw from the extensive literature on these subjects within anthropology, sociology, cultural studies and fashion and art history.

Credits: 3

Cross-Listings: ANT 121, SOC 121

On Occasion

SOC 125 Globalization

The course takes a multicultural approach to analyzing the global impact of nationalism, capitalism, communism, technology, and world religions on societies and cultures of varying scale.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 125, SOC 125

On Occasion

SOC 126 Gender, Culture and Society

Examines the gendered dynamics of social and cultural relations. Explores how gender is imagined, constructed and lived across a broad spectrum of historical periods, institutions and

cultural locations. Special attention is paid to the ways in which "gender" as practice, performance and representation has differed for women and men according to race, class and other divisions.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 126, HUM 126, SOC 126
Annually

SOC 128 Criminology

An examination of crime in modern society: the extent and social cost of violent, property, white-collar, corporate and organized crime and the accuracy of crime statistics. Crime prevention and punishment are also considered.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 128, SOC 128

On Occasion

SOC 130 Socialization: The Self and Society

An analysis of the processes by which individuals become socialized - that is, acquire the cultural knowledge they need to be functioning members of their society. Sociological and anthropological perspectives are offered on selected topics such as: the social self, role theory, symbolic interaction systems, ritual, popular culture and social media. The tensions between individualism and collectivism are explored.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 130, SOC 130

On Occasion

SOC 132 Anthropology/Sociology of the Bible

A study of Hebraic-Christian roots in Sumeria and Egypt; the rise of the Israelite Sacral League of Yahwists in Canaan and its transformation into the Davidic monarchy; prophets; apocalyptic Messianic beliefs; the origins of Christianity. An archeological, historical and linguistic examination is made of the peoples of the Hebrew and Christian Bibles, employing sociological and anthropological models and theories.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 132, SOC 132

On Occasion

SOC 133 African Cultures and Societies

An analysis of the diverse forms of socio-political groupings in Africa, the nature and effects of European colonialism on smaller-scale African societies and cultures, and the emergence of independent nation-states on the continent.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 133, SOC 133

Annually

SOC 142 Native Americans Before Columbus

An archeological and ethnographic survey of the diverse native American cultures in North America and Mexico before the European conquest: Beringia, Paleo-Indians, Mound Builders, Vision Quest, Sun Dance - with a concentration on selected topics.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 142, SOC 142

On Occasion

SOC 143 Native Americans Today

An examination of the devastating consequences of exploration, trade and settlement (e.g., epidemics) that followed European expansion into North America and Mexico; the variety of Native American responses to conquest; the lives of Native Americans today.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 143, SOC 143

On Occasion

SOC 149 Shamanism and Witchcraft

A look into powerful oral folk systems of spirituality, including ancestor worship, voodoo and shamanism. Students use cross-cultural comparison to study spirit possession, magic, rites of passage, divination, healing, and witchcraft and sorcery. Folk religions are examined to show how ritual helps to explain suffering, death and misfortune, to promote morality and heighten social solidarity, and to legitimize authority. They are also explored as a source of solace and resistance for marginalized and oppressed people.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 149, SOC 149

Annually

SOC 152 Folklore

A survey of folktales, myths, legends, ballads, folk songs, jokes, riddles, the blues, rapping and so on. Diverse forms, functions and interpretations of oral literature around the world are examined.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 152, SOC 152

On Occasion

SOC 153 Islamic Societies

The central aim of this course is to introduce students to basic issues surrounding the lived experiences of Muslims in different social settings around the world. We start with the notion that the meaning of being Muslim is variable over time and place, dependent on the particular context in which Muslims live. We will examine in detail variations in religious and cultural practices,

patterns of gender inequality, and critiques of the structuration of Muslim social realities by other Muslims.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 153, SOC 153

On Occasion

SOC 160 Popular Culture

An introductory survey of the study of popular culture. Drawing on recent work in contemporary cultural anthropology, the course examines race, sex and class dynamics and their intersection with issues in popular culture on a variety of topics and in different world regions, with special attention to music, dance, and film in the U.S. and the Caribbean.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 160, SOC 160

Annually

SOC 161 Sociology of Sport

An investigation into and analysis of the significance of sports as social phenomena. Readings and discussions go beyond scores, statistics, standings and personalities to focus on the "deeper game" associated with sports, the game through which sports become an integral part of the social and cultural worlds in which people live.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 161, SOC 161

Annually

SOC 165 Art, Culture and Society

An investigation into the relationship between art and the cultures and societies that produce it. The course explores the meaning of art in different social and cultural contexts, the use and production of art in daily and ritual life, and the political and performative potential of artistic forms. Music and dance, masks and pottery, cloth and carvings, altars and architecture, for example, are explored in their social and cultural settings. The particular traditions/genres studied will vary with the expertise of occasional guest teachers/artists. The course will make use of the many venues for viewing art in New York City.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 165, SOC 165

On Occasion

SOC 171 Asian Cinema

Special topics in the sociological analysis of the production, distribution and consumption of Asian films.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 171, MA 171, SOC 171
On Occasion

SOC 173 African Civilizations

This course examines African civilizations from the earliest period to the age of the Atlantic Slave trade. The abandonment of a hunting and gathering way of life and the introduction of agriculture and metallurgy has been seen as one of the major indicators of an emerging civilization. Recent archaeological research suggests that several areas of Africa experienced this kind of transformation independently. This course will explore the nature of that transformation and how it affected Africa's economic, political, and social development. Further, the course will examine the influence that African civilization has had on other cultures in the Old World.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 173, SOC 173

Biannually

SOC 181 Africa Forum Event

The annual Africa Forum is a one-day conference that brings special speakers and events to LIU Brooklyn. Its goal is to enable students to learn more about the African continent, its people and its role in world affairs. Information about event scheduling as well as assignments required by the associated one-credit course can be obtained in advance from the Department of Sociology-Anthropology.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 1

Cross-Listings: ANT 181, SOC 181

Every Fall

SOC 188 Meditation Workshop

This course will take a secular and experiential approach to learning about meditation practices used in different cultures around the world. After completing preparatory reading assignments, students will attend two day-long workshops on campus to practice specific meditation techniques. They will complete other reading, writing and practice assignments at home. This work will result in a final essay paper. Information about the one-credit course must be obtained in advance from the Department of Sociology-Anthropology. Please note: students MUST ATTEND both workshops to be considered enrolled in the course.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 1

Cross-Listings: ANT 188, SOC 188

Every Spring

SOC 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. To be eligible, students must have upper-

junior or senior status, a cumulative quality-point ratio of 3.00, a 3.25 ratio in their major, and the permission of the Chair of the Department and of the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

SOC 197 Independent Study

Students undertake rigorous, semester-long independent work under the supervision of a faculty member. The topic and specific assignments to be completed must be agreed upon in advance and approved by the Department Chair and the Dean.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 1 to 4

On Demand

SOC 198 Independent Study

Students undertake rigorous, semester-long independent work under the supervision of a faculty member. The topic and specific assignments to be completed must be agreed upon in advance and approved by the Department Chair and the Dean.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

On Demand

Social Science

The Division of Social Science, with the approval of the Director of the Division, offers an A.A. degree in Social Science, and interdisciplinary Bachelor of Arts and Bachelor of Science degrees in Social Science.

A.A. in Social Science

A.A., Social Science

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

Students who intend to continue on to a bachelor's degree must reapply for admission. Students interested in an associate degree should contact the Richard L. Conolly College Dean's Office.

To qualify for the Associate in Applied Science or in Arts, students must complete at least 64 credits in the liberal arts and sciences with a minimum 2.0 grade-point average and satisfy all requirements:

Electives

To be determined by proficiency requirements.

B.A. in Social Science

B.A., Social Science

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

The Division of Social Science offers an interdisciplinary major leading to a B.A. in Social Science. This flexible program is intended to serve students who are already established in careers or whose professional goals and personal interests require an interdisciplinary course of study.

Students are permitted into the program only with the approval of the Director of the Division and, subsequently, must be closely counseled by a faculty member in their department of concentration in order to develop a coherent and well-integrated program.

Program Model

- Proficiency Courses and Core Curriculum
- Area of Concentration - 30 credits
- 3-6 credits of lower-division courses in concentration
- 15 credits of upper-division courses in concentration
- 9-12 credits of upper-division courses in other departments of the Division of Social Science

Social Science

- One course from Social Science 223, 224 capstone series - 3 credits
- Electives (to be determined by proficiency)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Social Science

B.S., Social Science

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this

Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

The Division of Social Science offers an interdisciplinary major leading to a B.S. in Social Science. This flexible program is intended to serve students who are already established in careers or whose professional goals and personal interests require an interdisciplinary course of study.

Students are permitted into the program only with the approval of the Director of the Division and, subsequently, must be closely counseled by a faculty member in their department of concentration in order to develop a coherent and well-integrated program.

Program Model

- Proficiency Courses and Core Curriculum
- Area of Concentration - 30 credits
- 3-6 credits of lower-division courses in concentration
- 15 credits of upper-division courses in concentration
- 9-12 credits of upper-division courses in other departments of the Division of Social Science

Social Science

- One course from Social Science 223, 224 capstone series - 3 credits
- Electives (to be determined by proficiency)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Social Science Courses

SSC 190 Research Seminar

Designed to encourage and assist students interested in graduate-level study in the social sciences (anthropology, economics, history, political science, psychology, sociology and urban studies). Students are required to do research in their discipline/academic major or field of graduate interest. Interaction with professors and peers exposes students to academic subjects and research techniques. Emphasis is on strengthening research and writing skills and on guidance toward the completion of a graduate-level research paper. Prerequisite: Approval of appropriate Social Science Chair.

Credits: 3

Annually

SSC 223 Capstone Seminar in the Social Sciences

The Capstone Seminar in the Social Sciences (either SSC 223 or SSC 224) is required of all Social Science majors in their senior year. The seminar is an exploration and analysis from an interdisciplinary perspective of select critical issues, problems and frontiers in the social sciences that allows students to apply skills and analytical tools developed throughout their years of involvement in social science disciplines. Normally team-taught, the seminar promotes experimentation and provides a culminating academic focus for social science majors. Course topics and themes vary from year to year.

Credits: 3

Every Fall and Spring

SSC 224 Capstone Seminar in Social Seminar

The Capstone Seminar in the Social Sciences (either SSC 223 or SSC 224) is required of all Social Science majors in their senior year. The seminar is an exploration and analysis from an interdisciplinary perspective of select critical issues, problems and frontiers in the social sciences that allows students to apply skills and analytical tools developed throughout their years of involvement in social science disciplines. Normally team taught, the seminar promotes experimentation and provides a culminating academic focus for social science majors. Course topics and themes vary from year to year.

Credits: 3

Every Fall and Spring

SSC 231 Honors Advanced Elective Seminar

An interdisciplinary seminar that engages students in explorations of unique topics proposed by faculty from departments and programs across the university and occasionally from members of the professional world. Seminar topics are first reviewed and approved by members of the University Honors Program and the Honors Advisory Board. Faculty teaching Honors Advanced Elective Seminars are encouraged to integrate

experimental and non-traditional pedagogies into their courses, including field trips, workshops, and student organized exercises. Topics change each semester.

Student must be part of the Brooklyn Honors

Student Group in order to register for the course.

Credits: 3

Cross-Listings: HHE 139, SSC 231

Every Semester

SSC 234 Non-Western or Post-Colonial Literature

This course focuses on works, in English and in translation, emerging from non-Western cultures, including the cultures of Asia, Africa and South America. Courses in this category span a geographical region and a period of time adequate to address the historical context of the literature. Themes vary from semester to semester and may include topics such as: Voices of the African Diaspora, Buddhism in Asian Literatures, or Postcolonial Literature and the Atlantic World.

Of the following pre-requisites two courses are required: ENG 61, ENG 62, ENG 63 and or ENG 64; or HEG 21 and 22.

Credits: 3

Annually

SSC 235 Latin American and Caribbean Cultures and Societies

A comparative survey of indigenous, diaspora, colonial and postcolonial cultures in Latin America and the Caribbean. Special topics may include: creole, literacy and other language issues; migration and transnational identities; gender; poverty and socioeconomic development; African identities in the New World; and ritual and performance.

The pre-requisite of ANT 4, or ANT 5, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 135, SOC 135, SSC 235

Annually

SSC 239 East Asian Cultures and Societies

An examination of the major social institutions and cultural patterns of Asian people. Special emphasis is placed on China, Japan, Korea and Vietnam.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3

Cross-Listings: ANT 134, SOC 134, SSC 239

On Occasion

Minor in Asian Studies

The Asian Studies Minor is an interdisciplinary program with a flexible curriculum that emphasizes the development of knowledge and analytical approaches needed to understand the emergence of Asia in the twenty-first century. This twelve-credit minor program draws from numerous courses offered at LIU Brooklyn that focus on the history, cultures, societies, economics, politics, arts and contemporary issues pertaining to the Asian continent. Cross-listed courses for the Asian Studies Minor Program have included those from Sociology-Anthropology, History, Art, Dance, Media Art, Music, Philosophy and Economics.

The Asian Studies Minor certificate offers the student an addition to your diploma that many in the business community and world of higher education will find attractive in this age where the ascendance of Asia is a major driving force in a globalized economy. Led by China and India, the countries of the Asian Continent will continue to play a greater role in the world as their economies surge throughout the foreseeable future. LIU students who want to be a part of this ascendance would be well advised to use this opportunity to add Asia to their list of interests.

Requirements for Asian Studies Minor

The Asian Studies minor requires twelve credits in courses approved for the minor related to Asia. These courses include:

- Asian Cinema
- Asian Cultures and Societies
- Asian Music Seminar
- Asian Philosophy
- Current International Economic Problems
- East Asia: the Modern Period
- Ethnic Entrepreneurship
- Hatha Yoga
- International Economics
- Islamic Societies
- Non-Western Calligraphy
- Religion and Society: Buddhism
- World since 1945
- 20th Century East Asia-U.S. Relations

Students are encouraged to take "Asian Cultures and Societies" and/or "East Asia: the Modern Period."

An additional requirement is that each student enrolled in the Asian Studies Minor attends at least one Asia Forum, a lecture or performance given each semester by a distinguished scholar or artist on a broad range of subjects having to do with issues affecting Asia or Asian peoples.

There is no required course in the minor but all students will arrange their individual course of study in consultation with the Director of the Asian Studies Minor program. Courses outside of those listed will be considered on a case-by-case basis.

To participate in the Asian Studies Minor, please contact Professor Haesook Kim, Director of

the Asian Studies Minor Program at hkim@liu.edu; Room H833.

Latin American and Caribbean Studies Program

Students in any school or department may pursue an academic minor in Latin American and Caribbean Studies, an interdisciplinary field that provides students with a broad understanding of the politics, history, economics, cultures, literature and languages of an important and diverse region of the world. A cross-cultural understanding of the Latin American-Caribbean region is a valuable asset, opening a window into foreign histories and perspectives outside the U. S. experience that broaden horizons and increase marketable capabilities.

Some of the issues addressed by the program include Latin American and Caribbean politics, cultures and societies; dependency theory (which originated in the region), modernization and corporatism; class, race, gender and ethnicity; nationalism; religion (liberation theology); political and social movements, popular revolutions and socialist experiments, military coups and regimes, and human rights concepts and movements; contributions of the region to the arts (magical realism, poetry, murals, dance, music, theatre) and international law; and languages and literature.

The LACS minor requires 12 credits in courses approved for the minor related to Latin American and Caribbean themes. Six credits must be in the Social Sciences and six in the Arts and Humanities. At least one course must be an upper-division language course (Spanish, French or Portuguese). Courses taken outside the Richard L. Conolly College of Arts & Sciences are considered on a case-by-case basis.

Students are strongly encouraged to take either Latin American Politics, Latin American History, or Peoples and Cultures of the Caribbean and Latin America.

Courses taken in fulfillment of the LACS minor may come from permanent offerings or may be special topics courses. Independent studies are arranged when necessary or appropriate. Any course taken in fulfillment of the LACS minor must devote more than half its focus to Latin American and/or Caribbean themes. Here is the listing of LACS courses:

Social Science

ANT	135	Peoples and Cultures of Latin American and the Caribbean	3
ANT	512	Race in the Americas	3
HIS	565	Latin America in World History	3

POL	154	Human Rights in International Politics	3
POL	163	Music and Popular Struggle in Chile	3
POL	164	Latin American Politics	3
POL	167	Revolutionary Theory and Governments	3
Humanities			
ENG	64	Non-Western Literature: Caribbean and Latin American	3
ENG	169	Non-Western Postcolonial Literature: Caribbean and Latin American	3
SPA	105	The Hispanic World	3
SPA	133	Readings in Spanish-American Literature	3
SPA	137	Contemporary Puerto Rican Literature	3
SPA	138	The Contemporary Latin American Novel	3
SPA	139	Outstanding Women Writers of the Spanish-Speaking World	3
SPA	140	Literature of Social Protest and Revolution	3

For advising and further information, please contact Professor J. Patrice McSherry, Political Science Department, Room H-842; (718) 780-4105.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 Credits
Minimum G.P.A.: 2.0

Communications, Visual and Performing Arts (Division IV)

The Division of Communications, Visual and Performing Arts offers majors in visual arts, dance, journalism, media arts, music, and communication studies, with a minor in theatre. Master of Arts and Master of Fine Arts graduate programs are offered in media arts.

Students must fulfill the requirements of the core curriculum, and satisfy the requirements of their major. Of the 128 credits required for graduation, at least 48 must be earned in courses numbered above 100.

Department of Journalism and Communication Studies

Senior Professor: Engelman (Chair)

Professors: Bird, Parisi

Professor Emeritus: Freeman

Associate Professors: Del Collins, Greaves-Venzen, Rauch

Adjunct Faculty: 20

The study of communications is vital for our public life as a nation, our individual professional careers and our inter-personal relations. The Department of Journalism and Communication Studies enables students to master a broad range of communication theories and skills through two dynamic programs: a news-editorial and production program leading to a **B.A. in Journalism** and a Communication Studies program leading to a **B.A. in Speech**. The Journalism Program prepares students for exciting careers in print, broadcast, multi-media and online journalism as well as public relations, corporate communications and the legal profession. The Communication Studies Program empowers students to become effective communicators, resulting in improved personal relationships, greater academic success and the realization of career goals.

Journalism

The Bachelor of Arts in Journalism capitalizes on LIU's location in the media capital of the world to prepare students for a wide variety of media careers. We offer concentrations in print and broadcast journalism as well as in online and multimedia reporting. Students may also specialize in sports or international journalism as well as public relations or pre-law studies. Students apply their skills at the campus newspaper and radio and TV stations. They also receive invaluable experience as interns for news organizations like NY 1, The New York Times, Vibe, CNN, MTV and CBS Sports. Journalism majors have also had foreign journalism internships in Russia, South Africa, England and India funded by the department's Kruglak Fellowship.

B.A. in Journalism

B.A., Journalism

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirements

Choose one (1) course from the following:

MA 106 Video Workshop 3.00

MA 115 Introduction to Photography 3.00

MA 124 Computer Graphics I 3.00

MA 125 Digital Publishing I 3.00

Major Requirements

Must Complete All Courses In This Requirement

JOU 100 History of the Press 3.00

JOU 101 The Law of Communications 3.00

JOU 119 News Writing 3.00

JOU 120 Introduction to Mass Communication 3.00

JOU 135 News Reporting I 3.00

JOU 136 News Reporting II 3.00

JOU 160 Cooperative Training 1.00

12 Additional Credits in Journalism Courses

Numbered Above 100

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 31 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Journalism

A Journalism minor requires 12 credits at or above the 100 level.

Credit and G.P.A. Requirements

Minimum Total Credits: 12 credits

Minimum Minor G.P.A.: 2.0

Communication Studies

The Bachelor of Arts in Speech develops human communication and performance skills that

lead to self-realization, creative thinking, and problem solving. Our degree offers a concentration, for majors and non-majors, in Communication Studies, with specific curricular, extracurricular and internship programs to fit individual student needs.

B.A. in Speech

B.A., Speech

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Program Model

- Proficiency Courses and Core Curriculum
- Department Requirements - 36 credits in the major to be selected in consultation with the student's departmental advisor
- Distribution - Any 6 credits from advanced Art, Dance, English, Journalism, Media Arts, Music, Psychology, Sociology or Teaching and Learning courses.
- Electives (to be determined by proficiency requirements)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 36 credits

Minimum Credits Above 100 Level Courses: 48 credits

Distribution Requirement: see above

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Journalism Courses

JOU 100 History of the Press

The course provides students with an overview of the development of print journalism in the United States, especially the response of newspapers and magazines to changes in social conditions and communication technologies. Students will examine the role of the press from the American Revolution to the present. Special attention will be given to coverage of military conflict from the Spanish-American War and the two World Wars to Vietnam and Iraq. The course will scrutinize a wide range of mainstream and dissident publications. At the same time, the course will examine the contemporary crisis of print journalism and the convergence of print and electronic journalism on the Internet, including the growing importance of webzines, news aggregators and bloggers.

Credits: 3

Every Spring

JOU 101 The Law of Communications

The course will review the great debate over the meaning of the First Amendment and the protection it affords the press and electronic mass media. Students will examine concepts and landmark cases in such areas as defamation, copyright, privacy, obscenity, protection of news sources, secrecy in government, the regulation of advertising, broadcasting and anti-trust law. Emphasis will be placed on how both social and technological changes required reconsideration of First Amendment protections. Special attention will be given to the legal problems posed by new communication technologies such as cable television, communication satellites, computers and the Internet.

Credits: 3

Every Fall

JOU 102 The Press in a Democratic Society

The role, impact and responsibilities of journalists and mass media in a free society. Recommended for juniors and seniors.

Credits: 3

On Demand

JOU 107 International Newsgathering Systems

Development, practices and concepts of the foreign press and international communications. Consideration of such structures as social institutions and their role in the press systems of developing countries. History of media in authoritarian systems; existing techniques of control; and political, economic, legal and cultural barriers that inhibit freedom of expression and the dissemination of information. Review of communication channels and interactive media that open or restrict the information flow in our global telecommunications grid.

Credits: 3

On Occasion

JOU 109 Mass Media and Culture

Examination of how mass media portray and are influenced by popular and folk cultures. Students survey historical, theoretical and empirical data concerning the relationships between media and artifacts of mass culture. Various cultural manifestations such as sensationalism in supermarket tabloids, tabloid television, websites that cater to sensationalism and unofficial forms of expression - such as rumor cycles - are studied to determine how mass and social media both initiate and report the expression of various regional and social groups.

Credits: 3

On Demand

JOU 110 Case Studies in International Newsgathering Systems

With a variety of systems in a changing world, case studies in international news gathering are designed to zero in on specific problems of press freedom under different political systems. Press function and censorship in non-Western countries and press/public relations in other systems form the core of the course.

Credits: 3

On Demand

JOU 111 Photojournalism

A production-based class exploring the use of traditional photography and electronic media imaging. Topics include the photo essay, the ethical use of images in media, photo documentary, and the human condition in photography. Students are required to complete weekly photographic and written narrative assignments as well as a final documentary project.

Pre-requisite of MA 115/ART 115 is required or permission of the instructor.

Credits: 3

Cross-Listings: JOU 111, MA 111

Every Spring

JOU 118 Media Management

The course concentrates on the business and management of large media organizations as well as special interest and foreign language publications. Focus is on new management concepts and solutions to the complex problems facing today's media organizations. Specific areas addressed include administrative service, start-ups, management planning systems, corporation strategy and collective bargaining.

Credits: 3

On Demand

JOU 119 News Writing

Introduction to writing news stories, which are studied for their organization, form, style and effectiveness as expression and communication. Students will learn to apply Associated Press style and write leads. In newsroom laboratory sessions, students apply professional standards to frequent

assignments. (English majors should register for this course as ENG 126 rather than JOU 119).

Pre-requisite of ENG 16 is required.

Credits: 3

Cross-Listings: ENG 126, JOU 119

Every Semester

JOU 120 Introduction to Mass Communication

An introduction to the fields of print, electronic and interactive, and social media. Students are exposed to media theory and to a critical approach to the function of mass communications in American society. They examine the role of newspapers, magazines and books, as well as film, recording, broadcasting and digital media. The impact of cable TV, personal computers, New Media and other new communication technologies receives special attention. The course also reviews persuasive uses of mass media in politics, advertising and public relations. Emphasis on contemporary trends in mass communications.

Credits: 3

Every Fall and Spring

JOU 122 Magazine and Blog Writing

Students learn to develop and research feature-article ideas, make subjects come alive, and angle their work toward popular and specialized publications, Webzines and personal blogs. The class will study the content of leading magazines and Webzines and how to pitch articles to them.

Pre-requisite of JOU 119 is required.

Credits: 3

Annually

JOU 126 Principles of Advertising

An introduction to advertising with emphasis on effective creative strategies. Students gain insight into all phases of the business including E-print, radio, television, agency operations and research.

Credits: 3

Cross-Listings: JOU 126, MA 126

Annually

JOU 129 Radio News & Talk Shows

The course introduces the class to radio journalism and the wide range of talk shows on radio and TV. Students develop skills to produce radio news reports and documentaries. In addition, students become acquainted with the different forms of talk programming, from sports radio to opinion shows on cable TV.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 129, MA 129

Annually

JOU 130 Television Journalism

A skills course that focuses on writing for television newscasts and on providing technical direction for behind-the-scenes directors regarding video tapes, sound bites, live shots, timing, and on-screen graphics. Included are analyses of TV news content, the historic and current impact of television on

print journalism, and comparisons of various news media.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 130, MA 130

On Demand

JOU 131 History of Television and Radio

A critical survey of the history of radio and television in the U.S. from the beginning of broadcasting to the present. Topics will include the origins of broadcasting, the evolution of the networks and network news, and the impact of cable TV and other non-broadcast forms of television. The class will examine the impact of radio and TV on American business, politics and recreation. The course will focus on television as a powerful cultural medium, with emphasis on the full-range of programming from comedy and drama to public affairs and sports.

Credits: 3

Cross-Listings: JOU 131, MA 109

On Occasion

JOU 132 TV News Workshop

A practical application of skills and knowledge base obtained in Journalism 130. Students will create video news reports.

Credits: 3

On Demand

JOU 135 News Reporting I

The development of fundamental skills of news reporting. Students learn to research and cover stories in a variety of news beats. The class explores how to cover breaking news stories and introduces students to investigative techniques. In-class exercises are supplemented by assignments outside the classroom. Students gain insights from professional journalists as guest speakers.

The pre-requisite of JOU 119 / ENG 126 is required.

Credits: 3

Every Fall

JOU 136 News Reporting II

Advancement of the skills gained in Journalism 135 with an intensive study of actual newsroom problems and the preparation of longer, more complex interpretative stories. Students develop investigative journalism skills. Includes field assignments that require students to report stories off-campus, as well as in-class writing assignments. Entails the mastering of reporting requirements for different journalism platforms.

Pre-requisite of JOU 135 is required.

Credits: 3

Every Spring

JOU 140 Investigative Journalism

The course will provide an introduction to the history and practice of investigative reporting in the United States that goes beyond coverage of day-to-day breaking news. It will examine the historical

tradition of the press uncovering wrongdoing through in-depth reporting. Students will be introduced to the tools and techniques of gathering and analyzing difficult-to-obtain information from primary and secondary sources, including public records, databases and interviews. Each student will select and implement an investigative project.

The pre-requisite of JOU 119 / ENG 126 is required.

Credits: 3

On Occasion

JOU 141 Online Journalism

An introduction to writing, reporting and editing for news websites, blogs, and more. Topics include media convergence, interactivity, linking, RSS, podcasting, citizen journalism. Provides hands-on instruction in digital content gathering and multimedia presentation. Also addresses issues of social responsibility, credibility, law, and ethics as they relate to Internet journalism.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Annually

JOU 143 Magazine Editing & Production

A survey of the magazine publishing industry, focusing on editorial judgement, copy editing, and production principles. Topics include issue planning, manuscript selection, editorial roles, target audiences, and entrepreneurship. Also considers the influence of advertising, circulation, marketing on content. Class projects help students develop editing and design skills using page-layout software producing individual or group projects.

Credits: 3

Annually

JOU 144 Entertainment Journalism

Entertainment Journalism will provide a historical overview of the rise of entertainment and celebrity journalism in the United States. The course will examine case studies of celebrity coverage in various fields, from entertainment and sports to politics. The class will consider the impact of paparazzi and bloggers. Students will also get training in reviewing popular culture and preparing for celebrity interviews and reporting.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 144, MA 144

Rotating Basis

JOU 145 Introduction to Public Relations

Public relations principles and practices with attention to theory, function, audience analysis and related communications skills. This course examines the evolution of public relations, its concepts and functions within organizations, its impact on the public and its role in society. Also, public relations ethics and responsibilities, research, planning, development and important issues and trends are examined. Selected brief case histories

and a term project familiarize students with public relations activities of organizations such as corporations, government agencies, medical centers and nonprofit agencies. This course offers a foundation for those who aspire to managerial careers.

Credits: 3

Cross-Listings: JOU 145, MA 1531

Annually

JOU 146 Case Studies in Public Relations

Exploration of the principles of strategic planning and persuasion, media placement, the creation of audiences, and the development of publicity campaigns. Review of various internal and external publications with attention to their design, content and persuasive capabilities. Students scrutinize organizations and learn how various advocacy groups and corporate adversaries plan strategic communications to shape public debate on their issues. Time is devoted to practical applications as students enjoy wide latitude in selecting their case studies.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 146, MA 1532

On Demand

JOU 147 Sports Information and Public Relations

Students examine the techniques of sports publicity, promotion and marketing for both amateur and professional athletics. Students study the production of sports statistics, press releases, press kits and marketing strategies for print and broadcast media. Sports information professionals meet with students to assist them in developing their own promotional projects. The class also considers more broadly the business of sports and the role of sports in American society.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 147, MA 140

Every Fall

JOU 151 Sports Reporting

Covers all aspects of sports writing, including game coverage, features, columns and fantasy sports. Contrast of print and television coverage of the sporting world. Development of interviewing and reporting techniques and the ability to cultivate sources. Guest speakers from the world of sports journalism will be an integral part of the class.

Pre-requisite of JOU119/ENG 126 or MA 150 is required, or permission of the Department.

Credits: 3

Cross-Listings: JOU 151, MA 151

Annually

JOU 157 Creative Aspects of Advertising

Copywriting techniques for print media, radio and television and the creation of complete promotion packages for direct marketing. Students develop practical skills by creating advertising letters,

brochures and commercials. For students who may be considering advertising as a profession.

Pre-requisite of JOU119/ENG 126 or MA 150 is required, or permission of the Department.

Credits: 3

Cross-Listings: JOU 157, MA 157

On Occasion

JOU 160 Cooperative Training

Journalism majors engage in off-campus media internships and on-the-job study projects under the supervision of the Journalism Department.

Students are required to write about their experience as an intern and to solicit an evaluation from their on-site supervisors. This course may be taken for four semesters. Pass/Fail only.

Credits: 1

Every Semester

JOU 161 Campus News Media Internship

Journalism majors work as editors/managers on Seawanhaka, LIU radio and TV, with emphasis on publishing or airing their own work. This course provides academic recognition for applied journalistic achievement. Permission of the Journalism Chair is required.

The pre-requisite of JOU 119 / ENG 126 is required and permission of the Department Chair.

Credits: 3

Every Fall and Spring

JOU 162 Campus News Media Internship

Journalism majors work as editors/managers on Seawanhaka and other campus news media, with emphasis on advancing their skills in a collaborative setting. This course provides academic recognition for applied journalistic achievement.

The pre-requisite of JOU 119 / ENG 126 is required and permission of the Department Chair.

Credits: 3

Every Semester

JOU 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to pursue independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.0 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Semester

JOU 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to pursue independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.0 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department

and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

JOU 197 Independent Study

Research on mass media topics or an intensive professional internship under the supervision of a member of the Journalism faculty. Prerequisite: Permission of the Department Chair and the Dean.

Credits: 3

On Demand

JOU 198 Independent Study

Research on mass media topics or an intensive professional internship under the supervision of a member of the Journalism faculty. Prerequisite: Permission of the Department Chair and the Dean.

Credits: 3

Rotating Basis

JOU 222 Social Media in Theory & Practice

Explores theories and practices of social networking from the perspective of writers, journalists, and media professionals. Examines social media as a system of communications as well as its influences on individuals, groups and society. Students develop familiarity with blogs, wikis, chat, IM, tags, comments, feeds, etc. Requires active collaboration in online discussions and digital projects, in addition to class meetings.

Credits: 3

Cross-Listings: JOU 222, MA 222, SPE 222

On Occasion

JOU 1561 Video Journalism I

An intermediate course that trains students to function as video journalists, integrating television production with newswriting skills. Using a digital camcorder and non-linear editing equipment, students learn both the technical and the aesthetic aspects of ENG shooting and how to combine in-class news acquisition principles with field application. (Same as Media Arts 1561)

The pre-requisite JOU 119 / ENG 126 is required.

Credits: 3

Cross-Listings: JOU 1561, MA 1561

On Demand

Speech Courses

SPE 3 Oral Communication

An introduction to communication theory and interpersonal skills. Students develop oral presentation techniques, including public speaking, group discussion and oral readings. Evaluation of individual student speech through analysis of voice and diction is conducted.

Credits: 3

Every Semester

SPE 3X Oral Communication for Nonnative Speakers

A course parallel to Speech 3 for non-native speakers who need special attention in the production of oral English. Satisfies the core.

Credits: 3

Every Fall and Spring

SPE 100 Voice and Diction

Students learn about vocal facility and capacity through exercises and practising the sounds and symbols of the International Phonetic Alphabet (IPA). The goal in this course is to develop intelligent and effective communication for business and professional advancement in our highly competitive society through standard American English. Moreover, students learn to speak clearly and more effectively in their daily lives. Overall, students discover the power of their natural voices by learning to let go of bad habits and freeing their vocal power.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Every Fall and Spring

SPE 101 Oral Interpretation: Performance

Aesthetics

A study of the techniques of reading aloud, using the literature of various cultures and emphasizing increased appreciation and better use of vocal and physical communication. Prose literature is used to explore expository, descriptive and narrative genres.

Pre-requisite of SPE 100 is required or permission of the Instructor.

Credits: 3

Every Fall and Spring

SPE 102 Advanced Oral Interpretation: Advanced Performance Aesthetics

A study of advanced techniques and forms in the art of oral expression. Students explore poetry, drama and prose through a variety of interpretative genres, such as the soliloquy and choral speaking.

Pre-requisite of SPE 101 is required or permission of the instructor.

Credits: 3

Every Spring

SPE 103 Reader's Theatre: Chamber Performance

A group activity in which a piece of literature is communicated from a script to an audience through vocal and physical suggestion. Training is given in a very immediate form of literary recreation.

Pre-requisite of SPE 102 is required or permission of the instructor.

Credits: 3

Every Spring

SPE 105 Public Speaking

The study and practice of public speaking, provides students with specific communication principles and skills for effective public presentations in a variety of formal and informal public, social, business and professional settings. Topics include techniques for overcoming fears, improving self-

image, developing a personal communication style, the symbioses between speakers and audience, verbal and non-verbal communication, outlining, and composing and presenting professional speeches.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Every Fall

SPE 107 Political Speech in American Life

Critical analyses and evaluations of selected speeches from American political life from before the Revolution to the present day.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Every Fall

SPE 109 Speech for Business and Organizations

The study of special speaking situations in business helps develop and strengthen effective communication skills to deal with business and professional associates. Students will learn how to improve their leadership skills, conflict management skills, and interviewing skills.

Conduct meetings with authority, answer questions on interviews with confidence, and communicate with effectiveness.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Every Fall and Spring

SPE 119 Language, Speech and Thought

A consideration of three topics that have held much philosophical attention in the twentieth century: the nature of language, the actions human beings perform through speech, and the relation of language to thought. An introduction is made to the philosophy of language relevant to the work of psychologists, linguists, educators and others.

Topics include types of speech acts, meaning, truth, language acquisition, and the relation of philosophy to the cognitive sciences. Readings selected from such authors as J. L. Austin, John Searle, Ludwig Wittgenstein, Jacques Derrida, Willard Quine, Donald Davidson and Noam Chomsky.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: PHI 119, SPE 119

On Occasion

SPE 123 Non-Verbal Communication

Students will learn how to identify and interpret nonverbal behaviors and to understand the implications of the power that underlies all nonverbal behavior. Topic for discussion include the meaning of body language; the uses of space; touching, behavior and paralanguage. Through such understanding, students will gain greater awareness of and insight into their own behavior and into the behavior of others.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 127 Group Dynamics

This course will study the techniques and principles of group discussion, leadership, research, organization of materials and supportive practices.

Various forms of discussion are explored, including panel, symposium, forum, committee and conference.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Every Spring

SPE 182 Gender and Communication

The influence of socialization on gender roles and gender roles on communication is far reaching.

This course examines the communication behaviors of women and men in same sex and gender contexts. It defines the difference between sex and gender identity, and the role of socially structured reality plays in gender apartheid. This course introduces students to current theories on gender role play and communication, and examines the function of communication in gender role development. Topics may include gender as politics, gender discrimination, gender stereotyping in language usage, thought and action, self perception, nonverbal cues, communicative style, gender in intimate contexts, gender in public contexts and gender across culture, age and ethnicity.

Credits: 3

Cross-Listings: HUM 189, SPE 182

On Occasion

SPE 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisites of SPE 3 or HSP 21 or HSP 22, and SPE 194 are required or permission of the Instructor.

Credits: 3

On Demand

SPE 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the

Dean. A total of six credits of Honors Study is the maximum allowed.

The pre-requisites of SPE 3 or HSP 21 or HSP 22, and SPE 194 are required or permission of the Instructor.

Credits: 3

On Demand

SPE 197 Independent Study

Courses designed to give students in their junior or senior year an opportunity to work under the guidance of a member of the communications faculty. There are no regular class meetings.

Students may undertake either a production or research paper. Permission of the Department Chair and the Dean is required.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Demand

SPE 198 Independent Study

Courses designed to give students in their junior or senior year an opportunity to work under the guidance of a member of the communications faculty. There are no regular class meetings.

Students may undertake either a production or research paper. Permission of the Department Chair and the Dean is required.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Demand

SPE 201 Creative Problem Solving

We can't solve today's problems with the same thinking that caused them in the first place. Solving 21st Century problems requires imagination, self-awareness, inventiveness, and an on-going ability to assess and challenge our assumptions. This course encourages innovative thinking, and uses cutting edge principles to solve real-life communication problems across a wide variety of topics.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 202 Intercultural Communication

We are currently living in global villages. This course combines theory and practice in its consideration of issues and research problems in communication interactions across cultures and within multicultural settings. Topics include the role of language in tri-cultural communication, verbal and nonverbal communications across cultures, cultural stress, cross-cultural and intercultural communication in the business community, mass media and social settings. This course is designed to increase understanding and tolerance for other cultures.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 203 Interpersonal Communications

This course uses an experiential approach towards developing effective interpersonal communication skills in both at the private and professional setting. The focus is on heightened self-awareness on how communication is influenced by social conditioning, assumptions, bias, misuse of language and hierarchal social systems. Group dynamics, assigned readings, simulations are implemented, along with the application of communication techniques used by successful corporate trainers. Students examine why these approaches are successful; and how they can successfully implement these strategies in their own personal and professional relationships.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 210 Intrapersonal Communication

Self-awareness through intrapersonal communication can lay the foundation for communicating successfully with others. This interactive course explores the determinants that foster or hinder intrapersonal communication such as personality, culture, emotional and social intelligence, ideology, family values, environmental factors and gender identity.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 222 Social Media in Theory & Practice

Explores theories and practices of social networking from the perspective of writers, journalists, and media professionals. Examines social media as a system of communications as well as its influences on individuals, groups and society. Students develop familiarity with blogs, wikis, chat, IM, tags, comments, feeds, etc. Requires active collaboration in online discussions and digital projects, in addition to class meetings.

Credits: 3

Cross-Listings: JOU 222, MA 222, SPE 222

On Occasion

SPE 224 Culture and Art of Narration

Culture and ideology is created in part, through oral narratives handed down from one generation to the next. This course, through research, narration and interaction, provides historical insights into the wide range of narrative techniques that expand across cultures worldwide.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

On Occasion

SPE 1781 Movement and Voice for Actors I

A course designed to give students an understanding of their bodies and voices and how

to develop them for the stage and screen. Exercises are used to help students strengthen posture, alignment, breathing and vocal power for projection in the theatre - an exploration in the organic connection of body, mind and spirit. The process prepares the student for the integration of the physical, emotional and spiritual aspects of the human condition that are essential to the actor's understanding and portrayal of any character in the theatre.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Cross-Listings: SPE 1781, THE 1261

Every Fall

Department of Media Arts

University Professor Steinberg
Professors Broe, Fishelson, Lauth, Moghaddam
Associate Professors Banks (Chair), Goodman
(M.A./M.F.A. Program Coordinator)
Assistant Professors Beasley, Nappi, Molton
Adjunct Faculty: 10

The Media Arts Department offers undergraduate Bachelor of Arts and Bachelor of Fine Arts degrees. At the graduate level the department offers a M.A. and M.F.A. in Media Arts, and a M.F.A. in Writing and Producing for Television.

In both B.A. and B.F.A. programs, all Media Arts majors, beginning as freshmen, have immediate access to equipment and facilities including: digital photography labs, digital editing labs, television studio, computer graphics labs, digital audio suite, cinema screening facilities and digital cameras.

The Department also offers a competitive internship program, opportunities to participate in professional productions and exhibitions, as well as in film festivals and special media events.

B.A. in Media Arts

The department offers a comprehensive **Bachelor of Arts** degree that may either follow a specialized Area of Concentration or an Integrated Track, depending on the academic, creative and professional goals of the individual student. An Area of Concentration is a grouping of 24 or more credits in one of the following fields:

Computer Graphics; Digital Design; Animation; Interactive Media; Digital Audio/Sound Design; Film, Television and Digital Video Production; Film and Television Studies; Media Management; On-Camera Performance; Photography/Digital Photography; Screenplay and Video Journalism.

An Integrated Track is a grouping of 24 or more credits selected from across two or more of any of the above areas of concentration. Majors must consult with assigned faculty advisers in their field of interest to design, and be guided through, their particular program of study.

B.A. Media Arts

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirement

Six (6) advanced credits in a single discipline other than Media Arts.

General Requirements for B.A. major in Media Arts:

Foundation Courses (required)

12 credits

Area of Concentration Electives

24 credits

TOTAL

36 credits

12 credits of Foundation Courses

MA 100 Media Aesthetics 3.00

and

One (1) of the following courses:

MA 119 Business of Media Arts 3.00

MA 162 Photography Portfolio/Exhibition 3.00

MA 257 The Music Business 3.00

MUS 180 The Music Business 3.00

and

One (1) of the following courses:

MA 150 Writing for Visual Media 3.00

MA 152 Screenplay 3.00

and

One (1) of the following courses:

ART 108 History of Photography 3.00

MA 164 History of Photography 3.00

MA 187 Film and Television Studies 3.00

MA 239 Survey of Computer Art 3.00

and

24 credits from one of the following 12 Areas of Concentration:

1) Computer Graphics: Digital Design/

Animation/Interactive/web

MA 124 Computer Graphic I 3.00

MA 132 Computer Graphic II 3.00

MA 135 Motion Graphics I 3.00

MA 125 Digital Publishing I 3.00

MA 133 Digital Illustration I 3.00

MA 1361 World Wide Web Publishing I 3.00

MA 161 Dig. Portfolio/Exhibition 3.00

+ One (1) of the following:

MA 198 Independent Study 3.00

MA 199 Media Arts Internship 3.00

Or

2) Computer Animation and Special Effects

MA 124 Computer Graphics I 3.00

MA 132 Computer Graphics II 3.00

MA 133 Digital Illustration I 3.00

MA 135 Motion Graphics I 3.00

MA 1341 3D Computer Graphics I 3.00

MA 1342 3D Computer Animation 3.00

MA 207 3D Logo Animation 3.00

+ One (1) of the following:

MA 198 Independent Study 3.00

MA 199 Media Arts Internship 3.00

Or

3) Web Design

MA 124 Computer Graphic 3.00

MA 132 Computer Graphics II 3.00

MA 118 Digital Photography I 3.00

MA 125 Digital Publishing I 3.00

MA 1361 World Wide Web Publishing I 3.00

MA 1362 World Wide Web Publishing II 3.00

MA 133 Digital Illustration I 3.00

MA 135 Motion Graphics I 3.00

+ One (1) of the following:

MA 198 Independent Study 3.00

MA 199 Media Arts Internship 3.00

Or

4) Digital Audio: Music/Sound Design & Radio

MA 101 Audio Production I 3.00

MA 107 Digital Audio I 3.00

MA 110 Digital Audio II 3.00

MA 114.1 Digital Audio III 3.00

MA 114.2 Digital Audio IV 3.00

MA 1012 Audio Production II 3.00

MA 147 Studio Recording for the Music Producer 3.00

MA 199 Media Arts Internship 3.00

Or

5) Film & Video Production:

Shooting/Directing/Editing

MA 106	Video Workshop I	3.00
MA 1081	Video Workshop II	3.00
MA 145	Video Workshop III	3.00
MA 152	Screenplay	3.00
MA 155	Directing Moving Image	3.00
MA 199	Media Arts Internship	3.00

One (1) of the following:

MA 190	Film Production I	3.00
MA 102	Television Production	3.00

One (1) of the following:

MA 105	Lighting I	3.00
MA 206	Advanced Editing	3.00

Or

6) Television Production

MA 102	Television Production I	3.00
MA 103	Television Production II	3.00
MA 1032	Television Production III	3.00
MA 106	Video Workshop I	3.00
MA 105	Lighting I	3.00
MA 155	Directing Moving Image	3.00
MA 197	Independent Study	3.00
MA 199	Media Arts Internship	3.00

Or

7) Photography: Digital/Fine Art/Creative

MA 115	Introduction to Photography	3.00
MA 118	Digital Photography I	3.00
MA 122	Digital Photography II	3.00
MA 123	Studio Photography	3.00
MA 111	Photo Journalism	3.00
MA 105	Lighting I	3.00
MA 120	Creative Photography	3.00
MA 197	Independent Study	3.00
MA 199	Media Arts Internship	3.00

Or

8) Screenwriting: Film/Television/Animation

MA 152	Screenplay	3.00
MA 150	Writing for Visual Media	3.00
MA 154	Situation Comedy	3.00
MA 188	Film Noir: The Dark Side of America	3.00
MA 550	The Story	3.00
MA 106	Video Workshop I	3.00
MA 551	The Screenplay	3.00
MA 199	Media Arts Internship	3.00

Or

9) Media Management: Business/Marketing

MA 255	Prod Management	3.00
MA 106	Video Workshop I	3.00
MA 101	Audio Production I	3.00
MA 126	Advertising I: Principals	3.00
MA 157	Advertising II: Creative	3.00
MA 580	The Independent Producer	3.00
MA 257	The Music Business	3.00
MA 199	Media Arts Internship	3.00

Or

10. On-Camera Performance: Acting

MA 1581	On-Camera Performance I	3.00
MA 1582	On-Camera Performance II	3.00
MA 1583	On-Camera Performance III	3.00
MA 1591	Acting I	3.00
MA 1592	Acting II	3.00
MA 1585	Voice Over Performance	3.00
MA 565	Directing the Screen Actor	3.00
MA 199	Media Arts Internship	3.00

Or

11. Video Journalism: Documentary/News

MA 106	Video Workshop I	3.00
MA 1081	Video Workshop II	3.00
MA 130	Broadcast Journalism II	3.00
MA 144	Entertainment Journalism	3.00
MA 1561	Video Journalism I	3.00
MA 1562	Video Journalism II	3.00
MA 197	Independent Study	3.00
MA 199	Media Arts Internship	3.00

Or

12. Media Studies: Criticism/Theory

MA 186	Gaming	3.00
MA 178	Fairy Tales: From Disney to J Lo	3.00
MA 227	Action Cinema	3.00
MA 228	Symbols of Feminine	3.00
MA 239	Survey of Computer Art	3.00
MA 188	Film Noir: The Dark Side of America	3.00

+ One (1) of the following:

MA 106	Video Workshop I	3.00
MA 102	TV Production I	3.00

+ One (1) of the following:

MA 198	Independent Study	3.00
MA 199	Media Arts Internship	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 96 credits
 Minimum Total Major Credits: 36 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Ancillary Course Requirements: See above
 Minimum Major G.P.A.: 2.5
 Minimum Cumulative G.P.A.: 2.5

B.F.A. in Computer Art

The Media Arts Department also offers a **Bachelor of Fine Arts** degree in Computer Art. This is a specialized program for students interested in an intensive curriculum in applied art, design and technology. The degree offers students additional specialization in one of the following Computer Art studio areas: Computer Graphics and Digital Illustration, Digital Design for Print; 3D Modeling and Rendering; Computer Animation; Interactive Media and Web Design; Digital Audio and Computer Sound Design; and Video and Integrated Computer Arts.

B.F.A. Computer Art

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 3 credits
 Philosophy 3 credits
 Foreign Language 3 credits

Social Sciences

History 3 credits
 Social Sciences 6 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits
 Science 7 credits

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

General Requirements for a B.F.A. major in Computer Art

- Core Curriculum 41 credits
- BFA Foundation courses (required) 6 credits

- Art History/Media Theory
12 credits
- Computer Art Studio in Concentrations
36 credits
- Interdisciplinary Studio Electives
9 credits
- Advanced Computer Art
12 credits
- General Electives
12 credits
- **TOTAL**

128 Credits

BFA Foundation Courses:

- ART1501 or MA 101 3 credits
- MA 124 3 credits
- TOTAL 6 credits**

Art History/Media Theory:

- MA 239 (required) 3 credits plus
- ART 101 or MUS 107 3 credits
- ART 102 or MUS 108 3 credits
- *Theory Elective 3 credits
- (*Any Media Theory, Art or Music History class with permission of BFA Program Coordinator)
- TOTAL 12 credits**

Interdisciplinary Studio Electives:

- TOTAL 12 credits**
- Any Media Arts, Visual Art, or Music studio/production class outside the Concentration with the permission of B.F.A. Program Coordinator.

Computer Art Studio in one of 4

- Concentrations:**
- TOTAL 36 credits**

1. Graphics and Design

- MA 132 Computer Graphics II 3.00
- MA 125 Digital Publishing 3.00
- MA 133 Digital Illustration 3.00
- MA 118 Digital Photo I 3.00
- MA 122 Digital Photo II 3.00
- MA 1341 3-D Computer Graphics I 3.00
- MA 1361 Web Publishing I 3.00
- MA 275 Advanced 3d Modeling Workshop 3.00
- MA 197 Independent Study 3.00
- MA 199 Internship 3.00
- MA 240 Computer Art Thesis I 3.00
- MA 241 Computer Art Thesis II 3.00

Or

2. Computer Animation and Special Effects

- MA 132 Computer Graphics II 3.00
- MA 133 Digital Illustration 3.00
- MA 135 Motion Graphics I 3.00
- MA 1341 3D Computer Graphics I 3.00
- MA 1342 3D Computer Animation 3.00

- MA 275 Advanced 3d Modeling Workshop 3.00
- MA 207 3D Logo Animation 3.00
- MA 165 Portfolio Development
- MA 197 Independent Study 3.00
- MA 199 Internship 3.00
- MA 240 Computer Art Thesis I 3.00
- MA 241 Computer Art Thesis II 3.00

Or

3. Digital Audio & Sound Design

- MA 107 Digital Audio I 3.00
- MA 110 Digital Audio II 3.00
- MA 1012 Audio Production II 3.00
- MA 147 Studio Recording for the Music Producer
- MA 570 Location Sound Recording
- MA 197 Independent Study 3.00
- 198
- MA 199 Internship 3.00
- MA 240 Computer Art Thesis I 3.00
- MA 241 Computer Art Thesis II 3.00

+ 6 credits of additional studio arts selected in consultation with the B.F.A. Program Coordinator

Or

4. Web Design

- MA 132 Computer Graphics II 3.00
- MA 107 Digital Audio I 3.00
- MA 118 Digital Photo I 3.00
- MA 125 Digital Publishing 3.00
- MA 1341 3-D Computer Graphics I 3.00
- MA 133 Digital Illustration 3.00
- MA 135 Motion Graphics I 3.00
- MA 165 Portfolio Development
- MA 197 Independent Study 3.00
- MA 199 Internship 3.00
- MA 240 Computer Art Thesis I 3.00
- MA 241 Computer Art Thesis II 3.00

Credit and G.P.A. Requirements

- Minimum Total Credits: 128 credits
- Minimum Total Liberal Arts and Sciences Credits: 41 credits
- Minimum Total Major Credits: 75 credits
- Minimum Credits Above 100 Level Courses: 48 credits
- Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Media Arts

A Media Arts minor requires a total of 12 credits. Students can do a general minor, or specialize in a concentration area. MA 100 is a required course for all minors.

Credit and G.P.A. Requirements

- Minimum Total Credits: 12 credits
- Minimum Minor G.P.A.: 2.5

Minors in Related Fields

It is recommended that majors in the B.A. in Media Arts use their free electives to take a concentration of courses in another department in order to earn a minor in a related field, such as Art, Business, Computer Science, Dance, English, Journalism, Music, Theatre. Students should consult with their advisers to design an appropriate minor outside the Department.

Media Arts Courses

MA 100 Media Aesthetics

This required foundation course introduces students to the fundamentals of media arts and visual literacy - light, color, composition, perspective, time, motion, sound - and discusses how they are applied in the various forms of contemporary media. In a workshop environment, using media objects as texts, students also explore narrative, art history, philosophy of media, spectatorship, theories of perception and their own creativity.

Either the pre-requisite of ENG 16 is required or the pre-requisites of HEG 21 and 22 are required.
Credits: 3

Every Fall and Spring

MA 101 Audio Production I

An introduction to the art and science of audio production. Topics include basic sound theory, audio aesthetics, acoustics, sound reproduction and recording, the sound studio, remote sound recording, editing and mixing, the development of new audio technology, and creating audio for visual media. Students work individually and in teams on a variety of studio and field projects.

Credits: 3

Every Fall and Spring

MA 102 Television Production I

An introduction to the practice and principles of television studio production. The course covers all the basic production techniques, including scripting, lighting, shooting, producing and directing. Technical operation and understanding of all studio equipment, including cameras, switcher, audio board and character generator, are stressed. Students apply their skills in studio production assignments.

Credits: 3

Every Fall and Spring

MA 103 Television Production II

An intermediate level course expanding the techniques and applications of TV studio production covered in Television Production I. Students focus on producing and directing scripted studio productions such as TV dramas and news programs. Basic lighting techniques and set construction are also covered.

Pre-requisite of MA 102 is required.

Credits: 3

Rotating Basis

MA 105 Lighting I

A production class exploring the principles of lighting design for Photography, Film, Video Production and Animation. An examination is made of the nature of light and the similarities and differences specific to each medium. Topics include lighting ratios, color correction, and studio and location lighting.

Credits: 3

On Occasion

MA 106 Video Workshop I

An introduction to the principles and practice of portable digital video production. Working in crews on field projects, students explore the techniques and aesthetics of single-camera videography, sound recording, location lighting and video editing.

Credits: 3

Every Fall and Spring

MA 107 Digital Audio I

An introduction to the technology and aesthetics of digital composition, sound design, multi-track recording and production using digital software including Pro Tools and Reason on state-of-the-art hardware. Workshops include computer-based multi-track MIDI sequencing and audio hard disk recording, editing and processing, automated software mixing, locking sequenced MIDI and audio tracks to video and film, electronic music concepts and samplers. Weekly individual access to studios is provided.

Pre-requisite of MA 101 is required or permission of the instructor.

Credits: 3

Cross-Listings: MA 107, MUS 175

Every Fall and Spring

MA 109 History of Television and Radio

A critical survey of the history of radio and television in the U.S. from the beginning of broadcasting to the present. Topics will include the origins of broadcasting, the evolution of the networks and network news, and the impact of cable TV and other non-broadcast forms of television. The class will examine the impact of radio and TV on American business, politics and recreation. The course will focus on television as a powerful cultural medium, with emphasis on the full-range of programming from comedy and drama to public affairs and sports.

Credits: 3

Cross-Listings: JOU 131, MA 109

On Occasion

MA 110 Digital Audio II

An intermediate-level continuation of MA 107 in a workshop environment. This course continues to explore the technical and creative aspects (issues) of creating music and sound design. It will also work in Digidesign's Pro Tools and Reason software. It will look at how these two programs integrate. Topics include a deeper exploration of virtual instruments. Students will create samples and perform sample editing. MIDI sequencing and audio recording, in addition to learning editing and production concepts. Multi-track live recording, advanced mixing using automated control surfaces. Weekly individual access to studio facilities is provided.

Pre-requisite of MA 107/MUS 175 is required or permission of the instructor.

Credits: 3

Cross-Listings: MA 110, MUS 176

Rotating Basis

MA 111 Photojournalism

A production-based class exploring the use of traditional photography and electronic media imaging. Topics include the photo essay, the ethical use of images in media, photo documentary, and the human condition in photography. Students are required to complete weekly photographic and written narrative assignments as well as a final documentary project.

Pre-requisite of MA 115/ART 115 is required or permission of the instructor.

Credits: 3

Cross-Listings: JOU 111, MA 111

Every Spring

MA 115 Introduction to Photography

An introduction to photography as an art medium. Basic principles and practices of black-and-white photography processing and printing are reviewed. All students are provided with a 35 mm camera. (Same as ART 115.)

Credits: 3

Cross-Listings: ART 115, MA 115

Every Fall and Spring

MA 117 Intermediate Photography

A production-based class in photographic printing, using fiber-based papers. Filters, print toning, lighting and medium-format imaging are discussed. Projects are thematically based and include an extensive final presentation.

Pre-requisite of MA 115/ART 115 is required.

Credits: 3

Cross-Listings: ART 117, MA 117

Rotating Basis

MA 118 Digital Photography I

An introductory class using digital cameras and computers to record and print photographic imagery. The class focuses on photography as art, using new approaches and techniques. Course requirements include weekly assignments, midterm and final portfolio. All students are required to purchase a compact flash card. The department will supply digital cameras.

Credits: 3

Cross-Listings: ART 118, MA 118

Every Fall and Spring

MA 119 Business of Media Arts

A required course which discusses the applications of business skills for the media artist. Topics include professional development, media management principles, art and commerce, writing the business plan, and grant writing. Media professionals are invited as guest lecturers.

A minimum of 64 units must be completed prior to registering for this course.

Credits: 3

Every Fall and Spring

MA 120 Creative Photography

Independent exploratory study and

experimentation in advanced non-silver photographic techniques such as, Cyanotype, Van Dyke brown, Kallitype and Palladium.

The pre-requisite of MA 115 / ART 115 or MA 118 / ART 118 is required or permission of instructor.

Credits: 3

Cross-Listings: ART 120, MA 120

Rotating Basis

MA 122 Digital Photography II

A workshop-oriented intermediate level digital photography course. The focus is on advanced digital photographic camera skills and digital print output using alternative and archival media methods. Emphasis is on a digital portfolio and personal artistic statements. Students produce a portfolio of thematic presentation using both traditional film scanned images and digital media capture. Students are provided with a digital camera for the semester.

Pre-requisite of MA 118/ART 118 is required.

Credits: 3

Cross-Listings: ART 122, MA 122

Every Spring

MA 123 Studio Photography

An in-depth study of studio photography, using a variety of lighting techniques and setups. Students cover such topics as tungsten lights, reflected and direct lights, strobes, advanced metering, exposure, portraiture and different tabletop setups.

The pre-requisite of MA 115 / ART 115 or MA 118 / ART 118 is required or permission of instructor.

Credits: 3

Cross-Listings: ART 116, MA 123

Rotating Basis

MA 124 Computer Graphics I

An introductory level class in two-dimensional computer graphics using Adobe Photoshop. Students learn and work with basic digital illustration and graphics, scanning of images, image editing, image manipulation, photo manipulation, typography and image composition.

Credits: 3

Cross-Listings: ART 124, MA 124

Every Fall and Spring

MA 125 Digital Publishing I

An introduction to the skills and concepts of digital publishing, emphasizing layout and design fundamentals, graphics, typography, and computer-based input and output for print. Also, page layouts and structured drawing programs on the computer are reviewed.

Pre-requisite of MA 124 is required.

Credits: 3

Rotating Basis

MA 126 Principles of Advertising

An introduction to advertising with emphasis on effective creative strategies. Students gain insight into all phases of the business including E-print,

radio, television, agency operations and research.

Credits: 3

Cross-Listings: JOU 126, MA 126

Annually

MA 127 Fashion Studio Photography

Fashion photography is more than taking pictures of a model wearing the latest styles. This class will cover a range of subjects, that together, become the building blocks of a fashion shoot. These include model casting, makeup and hair artists, stylists, trends in fashion imagery, lighting, camera and lens selection, location selection, and clothing designers. The course will include guest speakers from the fashion industry. Course requirements include weekly shooting assignments, research assignments, and creation of a final fashion portfolio consisting of at least 12 finished prints.

The pre-requisite of MA 115 or MA 118 is required.

Credits: 3

On Occasion

MA 129 Radio News & Talk Shows

The course introduces the class to radio journalism and the wide range of talk shows on radio and TV. Students develop skills to produce radio news reports and documentaries. In addition, students become acquainted with the different forms of talk programming, from sports radio to opinion shows on cable TV.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 129, MA 129

Annually

MA 130 Television Journalism

A skills course that focuses on writing for television newscasts and on providing technical direction for behind-the-scenes directors regarding video tapes, sound bites, live shots, timing, and on-screen graphics. Included are analyses of TV news content, the historic and current impact of television on print journalism, and comparisons of various news media.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 130, MA 130

On Demand

MA 132 Computer Graphics II

An intermediate-level class covering professional studio techniques in the production of computer-based graphics and imaging projects for screen and print. Special emphasis is placed on digital design principles for still imaging.

Pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 125, MA 132

Rotating Basis

MA 133 Digital Illustration I

An intermediate-level class in the design and

creation of computer-based illustration using structured drawing programs. Students work on the computer with illustration techniques for logo design, technical drawing and poster design.

The pre-requisite of MA 124 is required.

Credits: 3

Rotating Basis

MA 135 Motion Graphics I

An introduction to Motion Graphics using industry standard software. Students will learn and work with time-based graphics design, motion path animation, dynamic media, and special effects for video, film and the Web.

Pre-requisites of MA 124 and MA 132 are required.

Credits: 3

On Occasion

MA 140 Sports Information and Public Relations

Students examine the techniques of sports publicity, promotion and marketing for both amateur and professional athletics. Students study the production of sports statistics, press releases, press kits and marketing strategies for print and broadcast media. Sports information professionals meet with students to assist them in developing their own promotional projects. The class also considers more broadly the business of sports and the role of sports in American society.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 147, MA 140

Every Fall

MA 144 Entertainment Journalism

Entertainment Journalism will provide a historical overview of the rise of entertainment and celebrity journalism in the United States. The course will examine case studies of celebrity coverage in various fields, from entertainment and sports to politics. The class will consider the impact of paparazzi and bloggers. Students will also get training in reviewing popular culture and preparing for celebrity interviews and reporting.

The pre-requisite of JOU 119 / ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 144, MA 144

Rotating Basis

MA 145 Video Workshop III

A capstone course in digital imaging acquisition, production and editing. This course will put together the skills you have acquired in Video Production I & II. Students work as a team to produce broadcast quality work. Topics include: advanced lighting, cinematography, editing, producing, marketing & distribution. Students work together using HD Workflow to edit a class project, create their own PSA/commercial and a 5-10 min narrative story.

The pre-requisite of MA 1081 is required or permission of the Instructor.

Credits: 3
Rotating Basis

MA 147 Studio Recording for the Music Producer

Focuses on music production and the fundamentals of studio recording, including the experience of producing and creating music in a state-of-the-art recording studio with live musicians. Topics include an overview of prominent music producers and their techniques, musical form and structure, the basics of sound and hearing, microphone technology and design, the art of microphone placement, audio signal flow, overdubbing, and mixing of multi-track audio. Students learn how to record and work with the sonic characteristics of individual musical instruments as well as listen to previous recordings of different musical genres all in an effort to heighten their listening sensibility. This innovative class creates an interdisciplinary learning environment, which enables students from various musical and engineering backgrounds to come together for the common goal of producing music.

Credits: 3
Rotating Basis

MA 150 Writing for Media

In a dynamic, collaborative workshop environment, students practice powerful writing skills designed to develop creativity and self-expression. Topics include: application of creative writing to media, image and text, signs and symbols, artist manifestos and concept development.

The pre-requisite of MA 100 is required and 3 credits from ENG 61, ENG 62, ENG 63, ENG 64, HEG 21 or HEG 22 is required or permission of the instructor.

Credits: 3
Every Fall and Spring

MA 151 Sports Reporting

Covers all aspects of sports writing, including game coverage, features, columns and fanstays sports. Contrast of print and television coverage of the sporting world. Development of interviewing and reporting techniques and the ability to cultivate sources. Guest speakers from the world of sports journalism will be an integral part of the class.

Pre-requisite of JOU119/ENG 126 or MA 150 is required, or permission of the Department.

Credits: 3
Cross-Listings: JOU 151, MA 151
Annually

MA 152 Screenplay

This course is designed to develop screenwriting skills in a workshop environment. Emphasis is on story structure, the writer's creative process, evaluation techniques and constructive feedback. Working independently students complete a short screenplay as their semester-long assignment.

The pre-requisite of MA 100 is required and 3 credits from ENG 61, ENG 62, ENG 63, ENG 64, HEG 21 or HEG 22 is required or permission of the instructor.

Credits: 3
Every Fall and Spring

MA 157 Creative Aspects of Advertising

Copywriting techniques for print media, radio and television and the creation of complete promotion packages for direct marketing. Students develop practical skills by creating advertising letters, brochures and commercials. For students who may be considering advertising as a profession.

Pre-requisite of JOU119/ENG 126 or MA 150 is required, or permission of the Department.

Credits: 3
Cross-Listings: JOU 157, MA 157
On Occasion

MA 162 Photography Portfolio/Exhibition

This is an advanced level photography class designed for graduating photography students. Students may work in any size, format or media, digital or traditional. Through the review of other photographers' work, completion of class assignments, and participation in critiques, students will be required to plan and execute their final photography exhibition.

Credits: 3
On Occasion

MA 164 History of Photography

A survey of the development of photography from its origins to the present day with emphasis on the daguerreotype, tintype and other early techniques. The course also reviews the role of photojournalism from the Great Depression to the present. Discussions include the role of the color image and photography as an art medium. This is a Writing Intensive course, and is required for students following a concentration related to the still image.

Credits: 3
Cross-Listings: ART 108, MA 164
On Occasion

MA 171 Asian Cinema

Special topics in the sociological analysis of the production, distribution and consumption of Asian films.

The pre-requisite of SOC 3, or HSS 21, or HSS 22 is required.

Credits: 3
Cross-Listings: ANT 171, MA 171, SOC 171
On Occasion

MA 178 Fairy Tales: From Disney to J-Lo

An exploration of how fairy tale motifs are used in movies and how this can affect a female's psyche over time. What 17th century standards and prejudices are being passed down to young viewers sitting in front of their DVDs entranced by Disney? How are fairy tales evolving or being deconstructed in the movies to fit the more feminist-minded p.c. mold today?

Credits: 3
Annually

MA 183 Contemporary American Cinema

A contextual approach to contemporary American cinema, including both fiction and nonfiction films. The emphasis is on the development of styles and techniques and the relationship of film to other arts, media and society. Includes class discussion and the writing of criticism. Occasionally guest filmmakers are invited to talk about their work.

Credits: 3
On Occasion

MA 186 Gaming: The Art of Play

A universal and timeless activity, humans play games! As children we engage in a chosen mindset in which we may amuse, or role play that we are an imaginary character, in an imaginary context. We may invite our friends to participate in our imaginings, and once agreed, we collaborate in an interplay of mindsets of context and characters. To play as children is thought to sculpt our minds and have transformative cognitive effects. As we age, we begin to play games. Games are structured with rules, challenges and goals, and winners and losers. Plus, they may have cognitive rewards as well. This class considers the structure of play in gaming, from early video games such as Pac Man, to portable commercial games like Nintendo, to contemporary gaming software. What are the similarities, differences, and advancements? Well, we will have to play to find out!

Credits: 3
On Occasion

MA 187 Film and Television Studies

A survey of the history and development of world cinema and television. Through screenings and discussions, students study this twentieth-century art form as developed by various countries, individuals and movements. The development of cinema and television as an industry and a part of the larger economy; as a series of technical innovations, as a history of aesthetic forms, as a social, cultural and political force and as a reflection of the ideas of its society are explored. This is a Writing Intensive course and is required for students following a concentration related to moving image.

Credits: 3
Every Fall and Spring

MA 188 Film Noir: The Dark Side of America

An exploration of the noir tradition from its origins in German expressionism and American gangster films to its classic period after World War II and its current widespread contemporary acceptance. Noir is explored as visual style, as subversive attitude and as an historical series reflecting American anxiety from World War II to the present.

Credits: 3
On Occasion

MA 190 Film Production I

An introduction to the art of 16 mm film production. Topics include film production roles and responsibilities, basic cinematography,

directing and film editing. Students work in teams to produce short silent films.

The pre-requisite of MA 106 is required or permission of the Instructor.

Credits: 3

On Occasion

MA 191 Film Production II

An intermediate course expanding on the skills and knowledge gained in MA 190. Students produce synch-sound 16mm film projects and explore advanced lighting, editing, audio field recording and cinematographic techniques. New developments in the field, film to tape transfer, and nonlinear post-production are explored.

Pre-requisite of MA 190 is required.

Credits: 3

On Occasion

MA 192 Prime-Time Television

An introduction to the form, content and ideology of the network television series. An analysis of the series format, including attempts to explain why series are popular, and an examination of such conventions of TV genres as the sitcom and the police series. Students are given an opportunity both to write papers on the development of the TV series and to write a treatment for an episode of a TV series.

Credits: 3

On Occasion

MA 197 Independent Study

This course is designed to give students in their junior or senior year an opportunity to do independent work under the guidance of a member of the Media Arts faculty. There are no regular class meetings. Students may undertake either a production (video, screenplay, photography, graphic design or Audio Production) or a research paper.

Credits: 3

Every Semester

MA 198 Independent Study

This course is designed to give students in their junior or senior year an opportunity to do independent work under the guidance of a member of the Media Arts faculty. There are no regular class meetings. Students may undertake either a production (video, screenplay, photography, graphic design or Audio Production) or a research paper.

Credits: 3

All Sessions

MA 199 Media Arts Internship

During their senior year, Media Arts majors are strongly recommended to undertake one internship with a media industry organization in New York City. Consultation with the Department Internship Coordinator, the Office of Career Services and the approval of the Department is required. May be taken more than once for credit.

Credits: 3

Every Semester

MA 207 3D Logo Animation

This is an introductory level class in the design and creation of 3D Logo animations for Video, Film and the web. Students will learn techniques in 3D modeling, surfacing, lighting, animation, special effects and rendering specifically for logos.

Credits: 3

On Occasion

MA 212 African-American Film

An examination of African-American images as an intrusion on typical Hollywood mainstream narrative. By concentrating on images both inside and outside dominant filming making institutions, the course surveys the implicit transgressive politics of filmmakers from Clarence Brown and Oscar Micheaux, to Melvin Van Peebles, Charles Burnett and Ivan Julien.

Credits: 3

On Occasion

MA 213 Philosophical Investigations Through Film

This course aims to engage theories of perception, movement of image and temporality through an analysis of avant-garde films and the history of cinema. Such philosophical issues as reality versus appearance, the nature of time, the relation of mind to body, and the possibility of artificial intelligence will also be explored through viewing popular films.

The pre-requisite of PHI 61, or PHI 62, or HHP 21 or HHP 22 is required.

Credits: 3

Cross-Listings: MA 213, PHI 213

On Occasion

MA 222 Social Media in Theory & Practice

Explores theories and practices of social networking from the perspective of writers, journalists, and media professionals. Examines social media as a system of communications as well as its influences on individuals, groups and society. Students develop familiarity with blogs, wikis, chat, IM, tags, comments, feeds, etc. Requires active collaboration in online discussions and digital projects, in addition to class meetings.

Credits: 3

Cross-Listings: JOU 222, MA 222, SPE 222

On Occasion

MA 233 Music Theory for Producers

A comprehensive knowledge of music composition is extremely beneficial to today's music producer.

This course examines the fundamentals of music and how it works. Music composition topics will be covered such as rhythm, melody, harmony, intervals, chord progressions, structure, and instrumentation. In addition, students will have the opportunity to improve their music writing skills through hands-on use of software like Apple's Logic Audio and Propellerhead's Reason. This course is suitable for students who want to expand their knowledge of music creation and production.

Credits: 3

On Demand

MA 239 Survey of Computer Art

A New Media theory class in Computer Art, this class will chronologically span the pioneering efforts of the first generation of computer artists to the latest in Internet and computer installations. Class sessions will include lectures, in-class presentations, and on-site gallery and museum exhibitions. Lively theoretical papers and discussions will be required. Fulfill's LIU Brooklyn's Writing Intensive (W.I) requirement.

Credits: 3

Annually

MA 240 Computer Art Thesis I

This is a required senior year class for all BFA in Computer Art majors. It is designed to help students conceive, research, design and create full pre-production of a computer art project for public exhibition.

Credits: 3

Every Fall, Spring and Summer

MA 241 Computer Art Thesis II

Upon completion of MA 240 Thesis I, students are paired with specialized faculty for the creation and production of computer art projects. Computer Art projects will be publicly exhibited and screened at the Thesis Exhibition.

The pre-requisite of MA 240 is required or permission of the Instructor.

Credits: 3

Every Fall, Spring and Summer

MA 257 The Music Business

A look at the jazz performer in today's business world: record production, music publishing, the concert, club and gig scene, copyrights, contracts, and career promotion.

Credits: 3

Cross-Listings: MA 257, MUS 180

Every Fall and Spring

MA 264 New Art City

Through art gallery and museum visits, slides and videos, an exploration of the wide variety of styles and meanings within contemporary art and the varied intentions of contemporary artists. Selected developments from Abstract Expressionism to the present, including Pop, Minimal, Conceptual, Performance and Neo-Expressionist art are examined.

Credits: 3

Cross-Listings: ART 105, MA 264

Every Spring

MA 275 Advanced 3D Modeling Workshop

An advanced class in 3D Modeling using Maya, students learn and work with modeling techniques for screen and print. Topics and techniques covered include architectural modeling and organic modeling using Polygons and Subdivision Surfaces.

The pre-requisite of MA 124 is required.

Credits: 3

Rotating Basis

MA 1012 Audio Production II

Audio Production II is an advanced audio production class dealing with intensive remote sound recording techniques for ENG/EFP video, film, and radio. Workshops will include advanced application and techniques for single-microphone and multi-microphone mixes. Topics will include boom operation, time code, music playback, multi-track recording for narration, dialogue and music, Foley artist, FX recording, stereo recording and sound editing.

The pre-requisite of MA 101 is required.

Credits: 3

On Occasion

MA 1032 Television Production III

An advanced course expanding the techniques and application of TV studio production covered in Television Production II. Students focus on producing and directing scripted studio productions such as TV dramas and news programs.

The pre-requisite of MA 103 is required.

Credits: 3

Rotating Basis

MA 1081 Video Workshop II

This is an intermediate level course that will expand upon the information and material covered in MA 106, Video Workshop I. It is designed to assist students in the exploration of more sophisticated video production aesthetics, concepts and technologies, which will include Nonlinear Editing (Final Cut Pro), Production Structure Lighting, Sound and Directing. Class members will practice and refine their production skills by completing a series of creative and challenging projects.

(Formerly MA 108)

Pre-requisite of MA 106 is required.

Credits: 3

Annually

MA 1141 Digital Audio III

An advanced, project-oriented continuation of MA 110, that integrates the concepts and techniques involved in digital sound with an examination of music manipulation and creation. Mastery of previously studied material is stressed. Emerging formats and technology are discussed. Unconventional, interesting and experimental software is examined and used.

The pre-requisite of MA 110/MUS 176 is required or permission of the Instructor.

Credits: 3

Cross-Listings: MA 1141, MUS 177

On Occasion

MA 1142 Advanced Music Production

Advanced Music Production is a project-oriented continuation of MA Digital Audio courses. Integration of the concepts and techniques involved in digital sound and examination of music manipulation and production is the focus. Mastery

of previously studied material is stressed. ProTools and Logic software is used as a tool to further develop students' skills in mixing music. Advanced techniques in the utilization of audio processing devices such as EQ, compression, and reverb among others are covered.

The pre-requisite of MA 110/MUS 176 is required or permission of the Instructor.

Credits: 3

Cross-Listings: MA 1142, MUS 1172

On Occasion

MA 1242 2-D Computer Animation I

An introduction to basic computer-based animation using two-dimensional graphics, paint, image-editing and animation software. Students work with digital Ink & Paint, rotoscoping, and motion path-based techniques for character animation and motion graphics.

The pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 125, MA 1242

On Occasion

MA 1341 3D Computer Graphics I

An introductory level class in 3D Computer Graphics for film, video, games, print and the World Wide Web. Students will learn basic modeling, texturing, scene design, digital cinematography and rendering using the latest hardware and software in the field. This class is a prerequisite for the 3D Animation class (MA 134.2), which is offered in the Spring.

Pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 1243, MA 1341

Every Fall

MA 1342 3-D Computer Animation

An introduction to the fundamentals of three-dimensional computer animation for film/television, print, video games and interactive media. Students learn and work with techniques in basic animation, morphing, inverse/forward kinematics, SFX, motion path editing and procedural animation, motion path animation, character animation, inverse and forward kinematics, dynamics, and special effects animation.

Pre-requisites of MA 124 and MA 1341 are required.

Credits: 3

Rotating Basis

MA 1361 World Wide Web Publishing I

An introduction to the basic principles of Web Page design and production. Students work with the most widely used graphics, authoring and HTML editing software packages in the industry. Students conceive and design their own Internet-ready Web site. (Formerly MA 136.)

The pre-requisite of MA 124 is required.

Credits: 3

Annually

MA 1531 Introduction to Public Relations

Public relations principles and practices with attention to theory, function, audience analysis and related communications skills. This course examines the evolution of public relations, its concepts and functions within organizations, its impact on the public and its role in society. Also, public relations ethics and responsibilities, research, planning, development and important issues and trends are examined. Selected brief case histories and a term project familiarize students with public relations activities of organizations such as corporations, government agencies, medical centers and nonprofit agencies. This course offers a foundation for those who aspire to managerial careers.

Credits: 3

Cross-Listings: JOU 145, MA 1531

Annually

MA 1532 Case Studies in Public Relations

Exploration of the principles of strategic planning and persuasion, media placement, the creation of audiences, and the development of publicity campaigns. Review of various internal and external publications with attention to their design, content and persuasive capabilities. Students scrutinize organizations and learn how various advocacy groups and corporate adversaries plan strategic communications to shape public debate on their issues. Time is devoted to practical applications as students enjoy wide latitude in selecting their case studies.

The pre-requisite of JOU 119/ENG 126 is required or permission of the Department.

Credits: 3

Cross-Listings: JOU 146, MA 1532

On Demand

MA 1561 Video Journalism I

An intermediate course that trains students to function as video journalists, integrating television production with newswriting skills. Using a digital camcorder and non-linear editing equipment, students learn both the technical and the aesthetic aspects of ENG shooting and how to combine in-class news acquisition principles with field application. (Same as Media Arts 1561)

The pre-requisite JOU 119/ENG 126 is required.

Credits: 3

Cross-Listings: JOU 1561, MA 1561

On Demand

MA 1581 On-Camera Performance I

An introduction to the practice and principles of on-camera performance for broadcast and film media. Using closed-circuit television interactively, students work on exercises in acting, news reading, interviewing and standup reporting. Professional guest speakers share experiences.

Credits: 3

Cross-Listings: MA 1581, THE 1391

Rotating Basis

MA 1582 On-Camera Performance II

An intermediate workshop designed to expand upon the skills and knowledge gained in On-Camera Performance I. Emphasis is on cold reading, character creation, teleprompter reading and scene analysis.

The pre-requisite of MA 1581 / THE 1391 is required or permission of the Department.

Credits: 3

Cross-Listings: MA 1582, THE 1392

Rotating Basis

MA 1583 On-Camera Performance III

An advanced workshop designed to enable a small group to work collaboratively on mastery of techniques learned in MA 1582. Emphasis is on audition technique and creating monologues.

The pre-requisite of MA 1582 / THE 1392 is required or permission of the Department.

Credits: 3

Cross-Listings: MA 1583, THE 1393

Rotating Basis

MA 1585 Comm/Voice Over Perf

This course is the study and practice of oral performance for radio, TV, theater, and non-broadcast applications. Students study the techniques of master communicators and vocalise; reading aloud, monologues, and public speaking exercises to develop clear diction, proper placement, and confidence. Special sessions in commercial copy writing provide insight into the marketing and production side of creating a commercial or narration. Simulated (recorded) auditions, script analysis, and chats with casting agents and performers prepare students for the real thing.

Credits: 3

Every Fall

MA 1591 Acting I

An introductory study of acting, including acting exercises, analysis and interpretation of roles, and improvisations. Each student prepares and performs various acting exercises and a minimum of one dramatic monologue. In addition, each student rehearses and performs in a scene consisting of two or more characters.

Credits: 3

Cross-Listings: MA 1591, THE 1251

Every Fall and Spring

MA 1592 Acting II

A continuation of THE 125.1 that emphasizes scene analysis and the creation of stage characterization. Students perform in a variety of scenes and other acting assignments.

Pre-requisite of THE 1251/MA 1591 is required.

Credits: 3

Cross-Listings: MA 1592, THE 1252

Every Fall and Spring

MA 1593 Acting III Rehearsal and Performance: Modern Scene Study

An investigation of rehearsal procedure, including character and script analysis, and a final emphasis

on techniques of scene performance. Students are required to see two plays and write a critique of each. Prerequisites: THE 125.1, 125.2.

Pre-requisites of THE 1251 and THE 1252 are required.

Credits: 3

Cross-Listings: MA 1593, THE 1253

Every Fall

Department of Performing Arts

Professors Emerita Stuart, Aquino, Yellin
Associate Professors Hash-Campbell (Chair),
Cooper (Music Program Coordinator), Newsome,
Sannuto (Theatre Program Coordinator)
Assistant Professor: Liapis
Production Director, Administrator: Wall
Adjunct Faculty: 25

The Department of Performing Arts is dedicated to teaching the disciplines of dance, music, and theater in a liberal arts environment. The Department of Performing Arts aims to give undergraduate students a solid technical and artistic foundation enriched with personal understanding as they move into their artistic career after graduation.

The Department of Performing Arts' faculty has years of performance and teaching experience around the world and many are currently active professionals in the New York City area. Undergraduate students explore both the rigorous critical study of their art form and the disciplined aesthetic practice of the technique. This daily practice provides essential tools and analytic understanding of the student's performing arts discipline. The department promotes the integration of both study and practice at every level of our curriculum. Students critically investigate and sustain the ideas, traditions, and practices in which their present art form is rooted. Through a full range of educational experiences students are prepared to create, perform, and prosper within their chosen artistic field.

For more information on the dance program contact Professor Dance Hash-Campbell at 718-488-1051.

For more information on the music program contact Dr. Gloria Cooper at 718-488-1051.

For more information on the theater program contact Professor John Sannuto at 718-488-1252 or john.sannuto@liu.edu for information.

DANCE PROGRAM

The Dance Program is a modern-based dance program offering rigorous, conservatory-style training for those interested in pursuing careers as professional dancers. The B.F.A. degree program provides a foundation in ballet, modern and post-modern dance techniques. The B.S. degree program is designed to meet the artistic and academic needs of students who want to double major or work in complementary fields. Additionally, our singular Dance Wellness program required by all dance majors has put the department at the forefront of dance science.

Small class sizes provide majors with individualized attention from professional faculty, drawn from New York's finest dance companies. Students learn and perform historic and contemporary repertory from professional guest artists and faculty.

Due to the conservatory style of the program any major who does not keep a B- in all dance courses, an overall G.P.A. above 2.5, does not approach the work in a professional manner, or maintain proper decorum may be placed on Departmental Probation. When on Departmental Probation, students are not allowed to perform, however they are required to crew performances and assist the department. When the student's grades, G.P.A. and professional decorum improve probation may be lifted. In the case, there is no improvement observed by the end of the probationary semester, the student is dismissed as a dance major. All these requirements and protocols are further explained in the dance program handbook.

B.S. in Dance

B.S., Dance

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 8 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Ancillary Requirement

BIO 131 Human Anatomy 4.00

Major Requirements

The following fifteen (15) courses must be completed:

DNC 100 Freshman Seminar: 2.00
Dance Literacy

DNC 121 Improvisation 2.00

DNC 160 Music for Dance 3.00

DNC 170 Introduction to Design 2.00
and Production for Dance

DNC 206 Contemporary Dance 3.00
History and Criticism

DNC 1031 Modern Technique Level 3.00
1.1 (B.S. first level)

DNC 1041 Modern Technique Level 3.00
1.2

DNC 1051 Modern Technique Level 3.00
2.1

DNC 1061 Modern Technique Level 3.00
2.2

DNC 151 Dance Wellness Level 1.1 1.00

DNC 152 Dance Wellness Level 1.2 1.00

DNC 153 Dance Wellness Level 2.1 1.00

DNC 154 Dance Wellness Level 2.2 1.00

DNC 251 Dance Wellness Level 3.1 1.00

DNC 252 Dance Wellness Level 3.2 1.00

The following course must be completed:

SPS 151 Functional Kinesiology 3.00

The following two (2) courses must be completed:

DNC 1081 Beginning Ballet Level 3.00
2.1 (B.S. first level)

DNC 1082 Beginning Ballet Level 3.00
2.2

The following two (2) courses must be completed:

DNC 131 Ballet Level 3.1 3.00

DNC 132 Ballet Level 3.2 3.00

Choose one of the following two requirements:

The following two (2) courses must be completed:

DNC 141M Modern Technique: Level 3.00
3.1A (BFA first level)

DNC 142M Modern Technique: Level 3.00
3.2A

Or

The following two (2) courses must be completed:

DNC 2181 World Dance: African 3.00
Diaspora

DNC 2182 World Dance: African 3.00
Diaspora 2

Or

DNC 122 Choreography I 2:00

DNC 221 Choreography II 2.00

DNC 215A Ensemble 1.00

DNC 215B Ensemble 1.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 54 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above
 Minimum Major G.P.A.: 2.75
 Minimum Cumulative G.P.A.: 2.5

B.F.A. in Dance

B.F.A., Dance

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 3 credits

Philosophy 3 credits

Social Sciences

History 3 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 8 credits

Communication, Visual & Performing Arts

Speech 3 credits

Ancillary Requirement

BIO 131 Human Anatomy 4.00

Major Requirements

Following thirty eight (38) courses required:

DNC 100	Freshman Seminar: Dance Literacy	2.00
DNC 121	Improvisation	2.00
DNC 122	Choreography 1	2.00
DNC 131	Ballet Level 3.1 (BFA first level)	3.00
DNC 132	Ballet Level 3.2	3.00
DNC 133	Ballet Level 4.1	3.00
DNC 134	Ballet Level 4.2	3.00
DNC 141M	Modern Technique: Level 3.1A (BFA First Level)	3.00
DNC 142M	Modern Technique: Level 3.2A	3.00
DNC 143M	Modern Technique: Level 4.1A	3.00
DNC 144M	Modern Technique Level 4.2A	3.00
DNC 145	Modern Technique Level 3.1B	2.00
DNC 146	Modern Technique Level 3.2B	2.00

DNC 147	Modern Technique Level 4.1B	2.00
DNC 148	Modern Technique Level 4.2B	2.00
DNC 152	Dance Wellness 1.2	1.00
DNC 153	Dance Wellness Level 2.1	1.00
DNC 154	Dance Wellness Level 2.2	1.00
DNC 160	Music for Dance	3.00
DNC 170	Introduction to Design and Production for Dance	2.00
DNC 205	Dance History	3.00
DNC 206	Contemporary Dance History and Criticism	3.00
DNC 215A	Dance Ensemble	1.00
DNC 215B	Dance Ensemble	1.00
DNC 221	Choreography 2	2.00
DNC 231	Ballet Level 5.1	2.00
DNC 232	Ballet Level 5.2	2.00
DNC 233	Ballet Level 6.1	2.00
DNC 234	Ballet Level 6.2	2.00
DNC 241M	Modern Technique Level 5.1A	3.00
DNC 242M	Modern Technique Level 5.2A	3.00
DNC 243M	Modern Technique Level 6.1A	3.00
DNC 244M	Modern Technique Level 6.2A	3.00
DNC 245	Modern Technique Repertory Level 5.1B	3.00
DNC 246	Modern Technique/Repertory Level 5.2B	3.00
DNC 247	Modern Technique/Repertory Level 6.1B	3.00
DNC 248	Modern Technique/Repertory Level 6.2B	3.00
DNC 251	Dance Wellness. Level 3.1	1.00
DNC 252	Dance Wellness Level 3.2	1.00

Following one (1) course required:

SPS 151 Kinesiology 3.00

Following one (1) course required:

DNC 151 Dance Wellness 1.1 1.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 36 credits

Minimum Total Major Credits: 90 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Ancillary Course Requirements: See above
 Minimum Major G.P.A.: 2.75
 Minimum Cumulative G.P.A.: 2.5

MUSIC

Versatility is the hallmark of the undergraduate music degree programs at LIU Brooklyn. Degrees offered include: B.A. in Music, Applied or Music Theory, B.S. in Music Education in Urban Schools and a B.F.A. in Jazz Studies. Students can also choose to include other academic concentrations such as media arts, education or business in their course of study. In all programs, a strong academic foundation is provided by the diverse core curriculum at LIU Brooklyn.

Music majors have the opportunity to learn from a diverse group of professional musicians who live and perform in New York City and the surrounding area – the entertainment and music mecca of the world. The world's leading jazz professionals participate in the Jazz Studies program as class instructors, ensemble directors, clinicians and private teachers.

B.F.A. in Music (Jazz Studies)

B.F.A., Music (Jazz Studies)

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 3 credits

Philosophy 3 credits

Foreign Language 3 credits

Social Sciences

History 3 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Physics 20 4 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART 61 or DNC 61 or THE 61)

Major Requirements

Following 18 courses required:

MUS 106 Jazz History 3.00

MUS 107	Traditional Music History I	3.00
MUS 108	Traditional Music History II	3.00
MUS 115	Private Instruction	1.00
	I,P,T, V	
MUS 116	Private Instruction	1.00
	I,P,T, V	
MUS 123J	Ensemble	2.00
MUS 125	University Chorus	2.00
MUS 131	Harmony/Counterpoint I	3.00
MUS 132	Harmony/Counterpoint II	3.00
MUS 153	Ear Training/Musicianship I	3.00
MUS 154	Ear Training/Musicianship II	3.00
MUS 161	Jazz Theory/Improvisation I	3.00
MUS 162	Jazz Theory/Improvisation II	3.00
MUS 163	Jazz Theory/Improvisation III	3.00
MUS 164	Jazz Theory/Improvisation IV	3.00
MUS 165	Jazz Ear Training I	3.00
MUS 166	Jazz Ear Training II	3.00
MUS 201	Music Notation Software	3.00

(Students must be enrolled in MUS 123J or MUS 125 each semester, as the ensemble requirement)
(Students must be enrolled in MUS 115 or MUS 116 each semester, as the private instruction requirement)

Recommended Music Electives

MUS 127	Conducting	3.00
MUS 170	Jazz Clinic	1.00
MUS 175	Digital Audio I	3.00
MUS 176	Digital Audio II	3.00
MUS 180	Music Business	3.00

Students may take private instruction with more than one instructor.

**Digital Audio (Media Arts) courses will satisfy the distribution requirement of 6 credits in one area of upper level courses.

***Students may be required to take Music 153 and 154 before Music 161 Jazz Theory & Improv. and 165 Jazz Ear Training.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
Minimum Total Liberal Arts and Sciences Credits: 36 credits

Minimum Total Major Credits: Consult with Program Coordinator
Minimum Credits Above 100 Level Courses: 48 credits
Minimum Major G.P.A.: 2.75
Minimum Cumulative G.P.A.: 2.0

B.S. in Music Education in Urban Schools

B.S., Music Education in Urban Schools

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits

Social Sciences

History	6 credits
Social Sciences	6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics	6 credits
Science	10 credits

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts	3 credits

(ART 61 or DNC 61 or THE 61)

Major Requirements

Music Requirements

MUS 107	Trad. Music History I	3.00
MUS 108	Trad. Music History II	3.00
MUS 109	Mthds Tchng Music Ele	3.00
MUS 110	Mthds Tchng Music Sec	3.00
MUS 115	Private Instruction	1.00
	I,P,T, V	
MUS 116	Private Instruction	1.00
	I,P,T, V	
MUS 123J	Ensemble	2.00
MUS 125	University Chorus	2.00
MUS 131	Harmony & Counterpoint I	3.00
MUS 132	Harmony & Counterpoint II	3.00

MUS 133	Harmony & Counterpoint III	3.00
MUS 134	Harmony & Counterpoint IV	3.00
MUS 152	Music Fundamentals	3.00
MUS 153	Ear Training/Musicianship I	3.00
MUS 154	Ear Training/Musicianship II	3.00
MUS 201	Music Notation Software	3.00

(Students must be enrolled in MUS 123J or MUS 125 each semester, as the ensemble requirement)
(Students must be enrolled in MUS 115 or MUS 116 each semester, as the private instruction requirement)

Recommended Music Electives

MUS 127	Conducting	3.00
MUS 170	Jazz Clinics	1.00
MUS 175	Digital Audio I	3.00
MUS 176	Digital Audio II	3.00
MUS 180	Music Business	3.00

Education Requirements

TAL 201	Teaching: Imagine The Possibilities	3.00
TAL 301	Observing, Describing Children	3.00
TAL 350	The Developing Child	4.00
TAL 351	Language & Literacy I	3.00
TAL 352	Sociology & Education	3.00
TAL 406	Health Ed. For Teachers	1.00
TAL 467.1	Teaching Ele. Music Ed.	3.00
TAL 467.2	Teaching Sec. Music Ed	3.00
TAL 468	Teaching Seminar Music Ed.	2.00
ALCX 702	Child Abuse ID & Report**	0.00
ALCX 703	Violence Prevention**	0.00
ALCX 704	Fire, Substance, Abduction**	0.00
TAL 339	Teaching & Learning***	0.00

Students may take private instruction with more than one instructor. Digital Audio (Media Arts) courses will satisfy the distribution requirement of 6 credits in one area of upper level courses.

State-Mandated Training: Students must also complete the **ALCX 702-704 non-credit workshops offered through the School of Continuing Studies or present proof of equivalent training elsewhere.

***Test Preparation: Students are encouraged to take **TAL 339** to help prepare for the Liberal Arts

and Sciences Test (LAST) of the New York State Certification Test (NYCTCE), a prerequisite for student-teaching, during the Children, Language and Society Block.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Education Major Credits: 25 credits

Minimum Total Music Credits: Consult with Program Coordinator

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Education Major G.P.A.: 3.00

Cumulative Music Course G.P.A.: 2.75

Minimum Cumulative G.P.A.: 2.0

B.A. in Applied Music

B.A., Music - Applied Music

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART 61 or DNC 61 or THE 61)

Major Requirements

MUS 107 Traditional Music History 3.00
I

MUS 108 Traditional Music History 3.00
II

MUS 115 Private Instruction 1.00
I,P,T,
V

MUS 116 Private Instruction 1.00
I,P,T,
V

MUS 123J Ensemble 2.00

MUS 125 University Chorus 2.00

MUS 131 Harmony & Counterpoint 3.00
I

MUS 132 Harmony & Counterpoint 3.00
II

MUS 133 Harmony & Counterpoint 3.00
III

MUS 134 Harmony & Counterpoint 3.00
IV

MUS 152 Music Fundamentals 3.00

MUS 153 Ear Training/Musicianship I 3.00

MUS 154 Ear Training/Musicianship II 3.00

MUS 201 Music Notation Software 3.00

(Students must be enrolled in MUS 123J or MUS 125 each semester, as the ensemble requirement)

(Students must be enrolled MUS 115 or MUS 116 each semester, as the private instruction requirement)

Recommended Music Electives

MUS 127 Conducting 3.00

MUS 170 Jazz Clinics 1.00

MUS 175 Digital Audio I 3.00

MUS 176 Digital Audio II 3.00

MUS 180 Music Business 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: Consult with Program Coordinator

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above

Minimum Major G.P.A.: 2.75

Minimum Cumulative G.P.A.: 2.0

THEATRE

The study of theatre entails intensive training in acting, voice and movement for the development of characterization in preparation for performance. The training provides a foundation for acting on stage, and on camera for film and television.

Students also learn about the history of theatre, the visual elements of production, play analysis and participate in production and/or performance work.

Students have the opportunity to perform in the main stage spring theatre productions and in smaller theatre pieces in the fall semesters. As a result, students gain valuable experience working in a large proscenium theatre as well as a smaller experimental theatre space. Students studying theatre who decide not to pursue an acting career may also go into other fields such as, working behind the scenes, directing, stage managing, producing and teaching. The experience and

training that students gain in theatre will serve them in any field they choose to work in. Students interested in pursuing studies in theatre should consult with the theatre program coordinator, Professor John Sannuto 718-246-6405, john.sannuto@liu.edu, and/or the department chair regarding class selection and graduation requirements.

Dance Courses

DNC 1 Introduction to Modern Dance 1

A studio survey course that offers the tools with which to participate in and appreciate dance, music in relation to dance, and the dance heritage that provides the essential materials for this course.

Students come to appreciate the body as an instrument capable of many forms of expression while they build strength, flexibility and control through the kinesthetic understanding of a basic movement vocabulary. Introduction to modern dance. Three hours.

(Same as PE 58.)

May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 1, PE 58

Every Fall and Spring

DNC 2 Introduction to Modern Dance 2

A continuation of DNC 1, with an increased emphasis on technique. Three hours.

May be taken twice for credit.

Pre-requisite of DNC 1 is required.

Credits: 3

Every Spring

DNC 13 Beginning Aerobic Dance 1

An introduction to aerobic training in a comprehensive program of physical fitness using multi-impact and cross-training techniques to develop and improve cardiovascular fitness. Personal journals are kept in which students record their progress and understanding of the health benefits of nutrition, flexibility, balance, strength and endurance. Three hours. (Same as PE 13.) Prerequisite: Doctor's permission. May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 13, PE 13

Alternate Years

DNC 13A Step Aerobics

Aerobic conditioning for all levels using steps and music to develop and improve cardiovascular fitness. Students learn how to work safely and effectively while they learn the basics of nutrition, strength, flexibility and balance for overall better physical fitness and well-being. Personal journals are kept. Three hours. (Same as PE 13A.)

Prerequisite: Doctor's permission. May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 13A, PE 13A

Alternate Years

DNC 14 Beginning Aerobic Dance 2

A continuation of DNC 13. Three hours. (Same as PE 14.) May be taken twice for credit.

Pre-requisite of DNC 13/PE 13 is required.

Credits: 3

Cross-Listings: DNC 14, PE 14

Alternate Years

DNC 14A Step Aerobics 2

A continuation of DNC 13A; aerobic conditioning for all levels using steps and music to develop and improve cardio-vascular fitness. Students learn how to work safely and effectively while they learn the basics of nutrition, strength, flexibility, and balance for overall better physical fitness and well-being.

May be taken twice for credit.

The pre-requisite of DNC 13A is required.

Credits: 3

Alternate Years

DNC 61 Dance Through Time

A look at dance in its time and place, with an eye to simultaneous development of corresponding art forms, lifestyles and government involvement in the arts. A survey is offered of the many forms that dance encompasses through an understanding of style, content, and time and place of origin, most lectures will be accompanied by slides or videotapes or both. Satisfies the core requirement for Richard L. Conolly students.

Credits: 3

Every Fall and Spring

DNC 100 Freshman Seminar: Dance Literacy

The freshman seminar in dance introduces dance majors to an all-inclusive view of the world of dance. This includes exposure to the language and aesthetic principles of dance, a historical perspective with particular reference to the twentieth and twenty-first century, and the various kinds of theaters in which dance is performed. The purpose of DNC 100 is to introduce primary materials with which to develop analytical skills of interpretation and inquiry. The course will include attendance at various dance performances. Two hours. Plus additional hours. Required of all dance majors.

The student must be a Dance major in order to register for the course.

Credits: 2

Every Fall

DNC 121 Improvisation

Students are introduced to the principles and practices of dance improvisation. Various structures will be presented to serve students in their exploration of physical, vocal and rhythmic expression. Tasks are presented using a variety of improvisational forms such as Laban/Bartenieff movement analysis, theatrical drills, musical interpretation, to name a few. The focus of the course is to guide the students' discovery of their individual movement language and to expand their movement vocabulary. They are challenged to find new ways of thinking about time, space, effort, and dynamic quality. This course requires individual as well as group problem solving. Emphasis is on the development of skills involving timing, nuances of energy, and the dancers' relationship to the surrounding space and to each other. Three hours, plus lab.

The student must be a Dance major in order to register for the course.

Credits: 2

Every Spring

DNC 122 Choreography 1

While this course continues using improvisation, it emphasizes choreographic forms and structures through studies in compositional theories.

Borrowing from traditional musical structures and experimenting in contemporary explorations of space and time, students will create complex movement studies, in both abstract and linear forms, concentrating on the solo and small group. Studies include pre-classic and classic forms. Since all art forms are themselves forms of communication, students, through observation, trial and error, develop an understanding of choreographic communication through the exploration of text, music, voice, cinema, props, lighting and costume. Students speak and write about their own work as well as the work of their peers and established choreographers. Required of B.F.A. Dance majors and optional for B.S. Dance majors.

The pre-requisite of DNC 121 is required and the student must be a Dance major.

Credits: 2

Every Fall

DNC 131 Ballet Level 3.1 (BFA first level)

This course presents the basic tenets and principles of ballet technique. There is strong emphasis on proper alignment of the body, dynamic timings, and a command of ballet terminology. Classes will include barre and center work, including port de bras, adagio, turns, petit allegro, and grand allegro. Combinations will become increasingly complex, and the correlation between barre and center work is consistently explored. Students demonstrate the following: ability to pick up patterns; understanding of most commonly used terminology; increasingly correct placement (bio-mechanically). Reading and video assignments include written requirements.

This course completes the minimum requirement for students in the B.S. in Dance program.

Required of all B.F.A. dance majors. Seven and one-half hours. Requirements: Audition to begin the B.F.A. program. B.S. students must complete two years of ballet or demonstrate technical ability in a placement class to enter this level. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

This course is only open to students who are Dance majors.

The pre-requisite of DNC 1082 is required for students who are a Dance major in the BS program. An audition placement into the BFA program is required.

Credits: 3

Every Fall

DNC 132 Ballet Level 3.2

DNC 132 is the continuation of DNC 131 with an increase in ballet vocabulary as well as an increase

in the level of ballet technique. An exit exam must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology. Visual and written assignments will be made. This course completes the minimum requirement for students in the B.S. in Dance program. Required of all B.F.A. dance majors. Seven and one-half hours. Non-majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 131 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 133 Ballet Level 4.1

Students will be required to demonstrate strong evidence of good alignment, musicality, and increased verbal and movement vocabulary. Continuation of DNC 132. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on the barre work. Required of all B.F.A. dance majors. Seven and one-half-hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 132 is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 134 Ballet Level 4.2

Continuation of DNC 133 with increasingly difficult barre and center work. An exit exam is administered at the end of the semester students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on the center work. Required of all B.F.A. dance majors. Seven and one-half-hours.

Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 133 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 141M Modern Technique: Level 3.1A (BFA first level)

This course represents the first semester in the freshman traditional modern techniques series. This is part of a series of courses designed to teach the fundamentals of classic 20th century modern dance techniques with choices from Graham, Limon, Cunningham, Horton. One modern technique will be taught in Dance 141M-142M (Freshman Fall, Spring); one technique will be taught in 143M-144M (Sophomore Fall, Spring).

2013-2014 is a Graham technique year. While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course.

Requirements: Audition to begin the B.F.A. program. Required of all B.F.A. dance majors. B.S. students must complete two years of modern techniques or demonstrate technical ability in a placement class to enter this level. Non majors may register with permission of the Chair of the Performing Arts Department. Four and one-half hours. May be taken twice for credit.

This course is only open to students who are Dance majors.

The pre-requisite of DNC 1061 is required for students who are a Dance major in the BS program.

An audition placement into the BFA program is required.

Credits: 3

Every Fall

DNC 142M Modern Technique: Level 3.2A

DNC 142M is the continuation of DNC 141M with an increase in the level of the technique being studied. Visual and written assignments are made. This is part of a series of courses designed to teach the fundamentals of traditional 20th century modern dance techniques with choices from Graham, Limon, Cunningham, Horton. One modern technique will be taught in DNC 141M-142M (Freshman Fall, Spring); one technique will be taught in 143M-144M (Sophomore Fall, Spring).

2013-2014 is a Graham technique year. While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. B.S. students must complete two years of modern

techniques or demonstrate technical ability in a placement class to enter this level. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 141M is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 143M Modern Technique: Level 4.1A

This course represents the first semester in the sophomore traditional modern techniques series.

This is a part of a series of courses designed to teach the fundamentals of classic 20th century modern dance techniques with choices from Graham, Limon, Cunningham, Horton. One modern technique will be taught in DNC 141M-142M (Freshman Fall, Spring); one technique will be taught in 143M-144M (Sophomore Fall, Spring).

2013-2014 is a Graham technique year. While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, bio-mechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 142M is required and the student must be a Dance major.

The pre-requisite of DNC 142M is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 144M Modern Technique: Level 4.2A

DNC 144M is a continuation of DNC 143M with an increase in the level of the technique being studied. This is a part of a series of courses designed to teach the fundamentals of classic 20th century modern dance techniques with choices from Graham, Limon, Cunningham, Horton. One modern technique will be taught in DNC 141M-142M (Freshman Fall, Spring); one technique will be taught in 143M-144M (Sophomore Fall, Spring). 2013-2014 is a Graham technique year. While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be

expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 143M is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 145 Modern Technique Level 3.1B (BFA first level)

This course represents the first semester in the freshman postmodern technique series. This course is designed to teach the fundamentals of various modern forms and styles. In non-traditional modern dance, there are many individual variations in technique, many of which fuse different forms of dance, including syntheses of old and new, modern and ballet as well as world dance forms. One modern technique will be taught in DNC 145-146 (Freshmen Fall, Spring); another modern technique will be taught in 147-148 (Sophomores Fall, Spring). While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Three hours. Requirements: Audition to begin the B.F.A. program. Required of all B.F.A. dance majors. B.S. students must complete two years of modern techniques or demonstrate technical ability in a placement class to enter this level.

Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The co-requisite of Dance 141M or the pre-requisite of DNC 1061 is required and the student must be a Dance major.

Credits: 2

Every Fall

DNC 146 Modern Technique Level 3.2B

DNC 146 is the continuation of Dance 145 with an increase in the level of the technique being studied. This course is designed to teach the fundamentals

of various modern forms and styles. In non-traditional modern dance, there are many individual variations in technique, many of which fuse different forms of dance, including syntheses of old and new, modern and ballet as well as world dance forms. One modern technique will be taught in DNC 145-146 (Freshmen Fall, Spring); another modern technique will be taught in 147-148 (Sophomores Fall, Spring). While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Three hours. Required of all B.F.A. dance majors. B.S. students must complete two years of modern techniques or demonstrate technical ability in a placement class to enter this level. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 145 is required and the student must be a Dance major.

Credits: 2

Every Semester

DNC 147 Modern Technique Level 4.1B

This course represents the first semester in the sophomore modern technique series. This course is designed to teach the fundamentals of various modern forms and styles. In non-traditional modern dance, there are many individual variations in technique, many of which fuse different forms of dance, including syntheses of old and new, modern and ballet as well as world dance forms. One modern technique will be taught in DNC 145-146 (Freshmen Fall, Spring); another modern technique will be taught in 147-148 (Sophomores Fall, Spring). While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course.

Three hours. Required for all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of Dance 146 is required and the student must be a Dance major.

Credits: 2

Every Fall

DNC 148 Modern Technique Level 4.2B

Dance 148 is the continuation of Dance 147 with an increase in the level of the technique being studied. This course is designed to teach the fundamentals of various modern forms and styles. In non-traditional modern dance, there are many individual variations in technique, many of which fuse different forms of dance, including syntheses of old and new, modern and ballet as well as world dance forms. One modern technique will be taught in Dance 145-146 (Freshmen Fall, Spring); another modern technique will be taught in 147-148 (Sophomores Fall, Spring). While each technique will dictate its own focus, all will include performance elements and style, phrasing, dynamics and musicality relating to the technique. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Three hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of Dance 147 is required and the student must be a Dance major.

Credits: 2

Every Spring

DNC 151 Dance Wellness 1.1

The dance wellness program is designed to help dancers know their strengths and weaknesses in an effort to keep them healthy and dancing longer than prior expectations. After undergoing dance profile testing, students will be tutored in exercises and body therapy techniques that best address their individual needs. Students will also learn basic anatomy, kinesiology, and nutrition. Two hours plus three individual meetings with the instructor of the course of the semester. Written and practical exams are administered. Required of all dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The co-requisite of DNC 1031, DNC 131 or 141M is required and the student must be a Dance major.

This course is required for all Dance majors.

Credits: 1
Every Fall

DNC 152 Dance Wellness 1.2

During the spring semester, dance wellness takes the form of a specific body training or therapy geared to the dancer. Among the forms employed are Pilates mat work, Hatha yoga, and/or Feldenkrais. Students will have an opportunity for individual meetings with the instructor. Written and practical exams are administered. Two hours. Required of all dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 151 is required and the student must be a Dance major.

This course is required for all Dance majors.

Credits: 1
Every Spring

DNC 153 Dance Wellness Level 2.1

A continuation of DNC 151. After undergoing dance profile testing, students will be tutored in exercises and body therapy techniques that best address their individual needs. Students will begin more dynamic training versus static training. Written and practical exams are administered. Two hours plus three individual meetings with the instructor throughout the semester. Required of all dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 152 is required and the student must be a Dance major.

This course is required for all Dance majors.

Credits: 1
Every Fall

DNC 154 Dance Wellness Level 2.2

A continuation of DNC 152. Two hours plus three individual meetings with the professor throughout the semester. Required of all dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 153 is required and the student must be a Dance major.

This course is required for all Dance majors.

Credits: 1
Every Spring

DNC 160 Music for Dance

Dance 160 is a comprehensive exploration of music focusing on the analysis and appreciation of music in relation to movement and performance. Studies will include development of a music vocabulary, identification of music structures, understanding the use of dynamics, quality and tempo, and the recognition of rhythmic components in music including the use of meter, subdivision and time and counting techniques. Also included is the study of significant examples of historic through contemporary western and non-western music for choreography. Such material support the dancer's

musicality as a performer and give the choreographer a broad musical background to inform creative choices. Three hours. Formerly DNC 115.1 and DNC 220. Required of all dance majors. May be taken twice for credit.

The co-requisite of Dance 103.1 or 131 is required and the student must be a Dance major.

Credits: 3
Every Spring

DNC 170 Introduction to Design and Production for Dance

This class will examine the major components of lighting and stage design and compare them to the elements of choreography. Ultimately students will come away with an understanding of how much dances can be enhanced by lighting design and have acquired a vocabulary to communicate with designers. This class also provides an overview of many of the elements of theatre production jobs and their responsibilities. The class will provide an introduction to costume and scenic design, a comprehensive workshop in hair and makeup for the state and a relatively in-depth investigation of lighting design. Written and practical exams are administered. Two hours. (Formerly DNC 129 and DNC 130.) Required of all dance majors. May be taken twice for credit.

The student must be a Dance major in order to register for the course.

Credits: 2
Every Fall

DNC 205 Dance History

The study of dance as a cultural form and its development as a performing art from medieval times until of the nineteenth century. Western and non-Western forms are studied and researched to facilitate a global understanding of the foundations of dance as an art form. Three hours. Required of all B.F.A. majors. Non majors may register with permission of the Chair of the Performing Arts Department.

The pre-requisite of DNC 100 is required and the student must be a Dance major.

Credits: 3
Alternate Fall

DNC 206 Contemporary Dance History and Criticism

A study of the development of dance and dance criticism in the twentieth century and twenty first century, including the birth of modern dance and the development of ballet in America. The influences of ethnic dance on concert dance. Students develop critical skills of observation. Three hours. Required of all dance majors. Non majors may register with permission of the chair of the Performing Arts Department.

The pre-requisite of DNC 100 is required and the student must be a Dance major.

Credits: 3
Alternate Spring

DNC 210 Kinesiology for Dancers

An in-depth analysis of the human musculoskeletal system to provide an understanding of movement to augment training. Areas of exploration include, but not limited to, the following: functional anatomical review of the musculoskeletal system, physiological review of the muscle morphology, kinesiological examination of movement patterns and configurations common in dance movement vocabulary, biomechanical examination of musculoskeletal system response to stress and injury, and psychokinetic evaluation of movement training and conditioning. Three hours. Required of all dance majors.

The pre-requisite of BIO 131 is required and the student must be a Dance major.

Credits: 3
Alternate Fall

DNC 211 Body Conditioning: Pilates Mat

The purpose of this course is to develop in the student an awareness of the body through healthy and safe methods of working out in the Pilates method. Developing strength, balance, flexibility and alignment as well as improved body tone is an intrinsic goal. Techniques and tools may vary. Two hours. May be taken twice of credit.

Credits: 1
Every Fall and Spring

DNC 215A Dance Ensemble 1

This class has a dual focus. It will nurture the qualities of performance, focus, intent, space and time, while supporting students tracking in both performance and choreography. Students will develop the creative aspects of performance for the dancer. The students will begin to develop tools that will help them become artistic interpreters of the movement and context given them. All students will learn some basic acting, sensory and kinesthetic awareness exercises to help facilitate their performance qualities and learn how to work as an ensemble in preparation for the Winter Dance Concert. Students will also learn how to speak constructively and respectfully about their own and each others choreographic work.

The co-requisite of DNC 122 is required and the student must be a Dance major.

Credits: 1
Every Fall

DNC 215B Dance Ensemble 2

This class is a continuation of DNC 215A. It will nurture the qualities of performance, focus, intent, space and time, while supporting the new choreographic students works for the Rising Artist Workshop series. This class also encourages the creative aspects of performance for the dancer. The students tracking in performance will begin to develop tools that will help them become artistic interpreters of the movement and context given them. While students tracking in choreography will also learn these tools they will also begin to utilize some of the simple choreographic principles of canon, theme and variation, motifs and

space/time relationships to encourage their growth as creators. All students will learn some basic acting, sensory and kinesthetic awareness exercises to help facilitate their performance and choreographic qualities in preparation for the Spring Dance Concert. Students will also learn how to speak constructively and respectfully about their own and each others choreographic work. One credit.

The pre-requisite of DNC 215A is required and the student must be a Dance major.

Credits: 1

Every Spring

DNC 221 Choreography 2

This course is a continuation of DNC 121 with the development of longer movement phases with increasingly more complex spatial design and plot development. This may include experiments in multimedia work. Advanced theories of composition are studied and applied to a finished work to be shown in a public performance. Three hours.

The pre-requisite of DNC 122 is required and the student must be a Dance major.

Credits: 2

Every Spring

DNC 231 Ballet Level 5.1

This is the first semester of the junior level ballet technique class. DNC 231 is the continuation of DNC 134 with an increase in ballet vocabulary as well as an increase in the level of ballet technique. As requirements of this course, students are expected to demonstrate a sense of theater direction, movement dynamics, performance qualities, texture of ballet movement. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on the barre work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 134 is required and the student must be a Dance major.

Credits: 2

Every Fall

DNC 232 Ballet Level 5.2

DNC 232 is the continuation of DNC 231 with an increase in ballet vocabulary as well as an increase in the level of ballet technique. As requirements of this course, students are expected to demonstrate a sense of theater direction, movement dynamics, performance qualities, texture of ballet movement. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most

commonly used terminology concentrating on center work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 231 is required and the student must be a Dance major.

Credits: 2

Every Spring

DNC 233 Ballet Level 6.1

This is the first semester of the senior level ballet technique class. DNC 233 is the continuation of DNC 232 with an increase in ballet vocabulary as well as an increase in the level of ballet technique. As requirements of this course, students are expected to demonstrate a sense of theater direction, movement dynamics, performance qualities, texture of ballet movement. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on the barre work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 232 is required and the student must be a Dance major.

Credits: 2

Every Fall

DNC 234 Ballet Level 6.2

DNC 234 is the continuation of DNC 233 with an increase in ballet vocabulary as well as an increase in the level of ballet technique. As requirements of this course, students are expected to demonstrate a sense of theater direction, movement dynamics, performance qualities, texture of ballet movement. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on center work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 233 is required and the student must be a Dance major.

Credits: 2

Every Spring

DNC 241M Modern Technique Level 5.1A

This is the first semester of the junior level modern technique class. In this series of courses, students

must demonstrate the ability to work with increasingly complex movement and rhythmic patterns; they must make movement phrases incorporating class vocabulary and must peer-teach those phrases. Each year (DNC 241M-242M/Junior and 243M-244M/Senior) will be represented by one dance technique. Each technique will have an individual emphasis, and each will articulate those elements of performance and style, phrasing, dynamics, and musicality which most clearly define it. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 144M is required is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 242M Modern Technique Level 5.2A

A continuation of DNC 241M, with increasing technical and performance challenges. Students will be required to teach a class. In this series of courses, students must demonstrate the ability to work with increasingly complex movement and rhythmic patterns; they must make movement phrases incorporating class vocabulary and must peer-teach those phrases. Each year (DNC 241M-242M/Junior and 243M-244M/Senior) will be represented by one dance technique. Each technique will have an individual emphasis, and each will articulate those elements of performance and style, phrasing, dynamics, and musicality which most clearly define it. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 241M is required and the

student must be a Dance major.

Credits: 3

Every Spring

DNC 243M Modern Technique Level 6.1A

This is the first semester of the senior-level modern technique class. In this series of courses, students must demonstrate the ability to work with increasingly complex movement and rhythmic patterns; they must make movement phrases incorporating class vocabulary and must peer-teach those phrases. Each year (DNC 241M-242M/Junior and 243M-244M/Senior) will be represented by one dance technique. Each technique will have an individual emphasis, and each will articulate those elements of performance and style, phrasing, dynamics, and musicality which most clearly define it. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-half hours. Required of all B.F.A. dance majors. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 242M is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 244M Modern Technique Level 6.2A

A continuation of DNC 243M. In this series of courses, students must demonstrate the ability to work with increasingly complex movement and rhythmic patterns; they must make movement phrases incorporating class vocabulary and must peer-teach those phrases. Each year (DNC 241M-242M/Junior and 243M-244M/Senior) will be represented by one dance technique. Each technique will have an individual emphasis, and each will articulate those elements of performance and style, phrasing, dynamics, and musicality which most clearly define it. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. Students will be expected to attain competency in the form at the end of the year by demonstrating an understanding of the movement language and aesthetic, by the ability to pick up patterns, transitions, biomechanical placement, and kinesthetic awareness. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one-

half hours. Required of all B.F.A. dance majors.

Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 243M is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 245 Modern Technique Repertory Level 5.1B

This is the first semester of the junior level technique/repertory class. This junior and senior year series is a combination of technique and repertory in which guest artists will teach the groundwork for their techniques each semester and will set a work on the students to be performed in the concert. Students professionalism and competency will be adjudicated in the concert by the guest artist and department faculty. In this intense experience, students will be expected to adapt to and perform the technique and style under study, capped by a public performance of the work. Four and one-half hours (plus lab). Required for all B.F.A. dance majors. May be taken twice for credit. *The pre-requisite of DNC 148 is required and the student must be a Dance major.*

Credits: 3

Every Fall

DNC 246 Modern Technique/Repertory Level 5.2B

This is the second semester of the junior level technique/repertory class. This junior and senior year series is a combination of technique and repertory in which guest artists will teach the groundwork for their techniques each semester and will set a work on the students to be performed in the concert. Students professionalism and competency will be adjudicated in the concert by the guest artist and department faculty. In this intense experience, students will be expected to adapt to and perform the technique and style under study, capped by a public performance of the work. Four and one-half hours (plus lab). Required for all B.F.A. dance majors. May be taken twice for credit. *The pre-requisite of DNC 245 is required and the student must be a Dance major.*

Credits: 3

Every Spring

DNC 247 Modern Technique/Repertory Level 6.1B

This is the first semester of the senior level technique/repertory class. This senior year series is a combination of technique and repertory in which guest artists will teach the groundwork for their techniques each semester and will set a work on the students to be performed in concert. In this intense experience, students will be expected to adapt to and perform the technique and style under study, capped by a public performance of the work. Students professionalism and competency will be adjudicated in the concert by the guest artist and

department faculty. Four and one-half hours (plus lab). Required for all B.F.A. dance majors.

May be taken twice for credit.

The pre-requisite of DNC 246 is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 248 Modern Technique/Repertory Level 6.2B

This is the second semester of the senior level technique/repertory class. This senior year series is a combination of technique and repertory in which guest artists will teach the groundwork for their techniques each semester and will set a work on the students to be performed in concert. In this intense experience, students will be expected to adapt to and perform the technique and style under study, capped by a public performance of the work. Students professionalism and competency will be adjudicated in the concert by the guest artist and department faculty. Four and one-half hours (plus lab). Required for all B.F.A. dance majors. May be taken twice for credit.

The pre-requisite of DNC 247 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 251 Dance Wellness. Level 3.1

This is the first semester of the junior level Dance Wellness. During the upperclassmen years dance wellness takes the form of a specific body training or therapy geared to the dancer. Among the forms employed are Iyengar or Hatha yoga, Alexander, Gyrokinesis®, or Feldenkrais. Students will have an opportunity for individual meetings with the instructor. Two hours. Required of all dance majors. May be taken twice for credit.

The pre-requisite of DNC 154 is required and the student must be a Dance major.

Credits: 1

Every Fall

DNC 252 Dance Wellness Level 3.2

This is the second semester of the junior level Dance Wellness. During the upperclassmen years dance wellness takes the form of a specific body training or therapy geared to the dancer. Among the forms employed are Iyengar or Hatha yoga, Alexander, Gyrokinesis®, or Feldenkrais. Students will have an opportunity for individual meetings with the instructor. Two hours. Required of all dance majors. May be taken twice for credit.

The pre-requisite of DNC 251 is required and the student must be a Dance major.

Credits: 1

Every Spring

DNC 301 Senior Choreography Project

For each of the senior semesters, students tracking in choreography may enroll in Dance 301 and 302. The main objective is for the student to engage in all the elements of the creative process while maintaining an objective approach to the practical

needs of staging a dance work. These classes will be devoted to individual student choreography as it pertains to the creation of an original work. The student will make weekly presentations of the work in progress, discuss and implement process, and develop a budget for costuming, props, music. 2-4 credits, hours to be determined by Chair of the department.

The pre-requisite of DNC 221 is required and the student must be a Dance major.

Credits: 2 to 3

On Demand

DNC 302 Senior Choreography Project

For each of the senior semesters, students tracking in choreography may enroll in Dance 301 and 302. The main objective is for the student to engage in all the elements of the creative process while maintaining an objective approach to the practical needs of staging a dance work. These classes will be devoted to individual student choreography as it pertains to the creation of an original work. The student will make weekly presentations of the work in progress, discuss and implement process, and develop a budget for costuming, props, music. 2-4 credits, hours to be determined by Chair of the department.

The pre-requisite of DNC 301 is required and the student must be a Dance major.

Credits: 2 to 3

On Demand

DNC 303 Senior Performance Project

For each of the senior semesters, students tracking in performance may enroll in DNC 303 and 304. These classes will be devoted to the development of dance technique, presentation, and kinesthetic awareness, a necessary skill for ensemble work. Students will learn to collaborate on the development of their individual movement, costumes, and props with their respective choreographers and further will be required to listen to the choreographer's intent while recording their observations of the choreography. The training includes preparation of the dancer to become a collaborator in the process of development and performance, the creation of intent and/or atmosphere. 2 credits: participation in the development and performance of one student work; 3 credits: participation in the development and performance of two student works; 2 hours class (lecture); 4 + hours rehearsals (2 credits) 6 + hours rehearsals (3 credits).

The pre-requisite of DNC 215B is required and the student must be a Dance major.

Credits: 2 to 3

On Demand

DNC 304 Senior Performance Project

For each of the senior semesters, students tracking in performance may enroll in DNC 303 and 304. These classes will be devoted to the development of dance technique, presentation, and kinesthetic awareness, a necessary skill for ensemble work.

Students will learn to collaborate on the development of their individual movement, costumes, and props with their respective choreographers and further will be required to listen to the choreographer's intent while recording their observations of the choreography. The training includes preparation of the dancer to become a collaborator in the process of development and performance, the creation of intent and/or atmosphere. 2-4 credits, hours to be determined by Chair of the department.

The pre-requisite of DNC 303 is required and the student must be a Dance major.

Credits: 2 to 3

On Demand

DNC 305 Practical Preparation for the Dancer

This course prepares dance students to enter the professional dance world equipped to represent themselves with well organized resumes that are specific to the job. This includes a portfolio with headshots, performance photographs, in addition to learning how to create an audition reel. As well as learning the administrative skills necessary to produce one's own concert. Must be a junior or senior dance major. Three hours.

The pre-requisite of DNC 122 is required and the student must be a Dance major.

Credits: 2

Alternate Spring

DNC 308 Partnering

The skills required for partnering, including certain laws of physics, form the underlying objectives of this course. Students will learn to lift each other, transfer and support weight, develop a sense of trust and a sense of responsibility when working with one or more partners. Must be a dance major. Three hours. May be taken four times for credit.

Credits: 3

On Occasion

DNC 309 Men's Ballet

This course will address the special techniques and responsibilities of the male dancer. There are specific technical ballet skills that are traditionally used by men only but women who may be interested in performing en travesti may enroll in this course. Three hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken eight times for credit.

Credits: 2

On Demand

DNC 1031 Modern Technique Level 1.1 (B.S. first level)

The study of modern dance techniques meant to develop technical strength, musicality and clarity along with the knowledge of the movement theories that gave rise to these techniques. The techniques offered are those developed during the modern and postmodern periods during the twentieth and twenty first century. Techniques will vary from year to year. An exit exam is administered at the end of

the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. There will be regular attendance at concerts. Both written and visual materials will augment instruction and there will be a writing component in this course. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The student must be a Dance major in order to register for the course.

Credits: 3

Every Fall and Spring

DNC 1041 Modern Technique Level 1.2

A continuation of DNC 103.1 that provides increased challenges in modern techniques, with greater emphasis on phrasing and musical acuity. Students will begin to understand contemporary dance theories through critical analyses of live concerts and videos. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. There will be regular attendance at concerts. Both written and visual materials will augment instruction and there will be a writing component in this course. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 103.1 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 1051 Modern Technique Level 2.1

DNC 1051 is a study of dance technique and theory on an intermediate level, supported by a comprehensive study of mid- to late-twentieth century and twenty first century developments in dance. Students are required to expand their technical strength and vocabulary, and to recognize the various dance styles and forms in the field of contemporary dance. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. There will be regular attendance at concerts. Both written and visual materials will augment instruction and there will be a writing component in this course. May be taken a second semester for credit. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 1041 is required and the student must be a Dance major.

Credits: 3

Every Fall

DNC 1061 Modern Technique Level 2.2

DNC 1061 is a continuation of DNC 1051, adding the elements of performance values and styles. The across-the-floor and center combinations are culled from the instructor's choreographic repertory, employing the techniques in practical applications. Student will demonstrate ability to respond to universal modern dance language (e.g., contraction/release; fall/recovery; axial and spiral; parallel and turnout). An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology of the technique. There will be regular attendance at concerts. Both written and visual materials will augment instruction and there will be a writing component in this course. Four and one-half hours. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 1051 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 1081 Beginning Ballet Level 2.1 (B.S. first level)

This course presents the basic tenets and principles of ballet technique. Students will develop an understanding of basic ballet terminology and exhibit knowledge of correct placement (bio-mechanically). Classes will include barre and center work, including port de bras, adagio, turns, petit allegro, and grand allegro. An exit exam is administered at the end of the semester, students must demonstrate correct placement (bio-mechanically), ability to pick up patterns, and an understanding of the most commonly used terminology concentrating on the barre work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one half hours of course hours, three additional hours of lab. This course has an additional fee. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 1071 and DNC 1072 are required or an audition. The student must be a Dance major.

Credits: 3

Every Fall and Spring

DNC 1082 Beginning Ballet Level 2.2

Students will demonstrate an understanding of basic ballet terminology and exhibit knowledge of correct placement (bio-mechanically). DNC 1082 is a continuation of DNC 1081 with increased vocabulary studies and an introduction to theatrical staging. An exit exam is administered at the end of the semester students must demonstrate correct placement (bio-mechanically), ability to pick up

patterns, and an understanding of the most commonly used terminology concentrating on the center work. Both written and visual materials will augment instruction and there will be a writing component in each course. Four and one half course hours, three additional hours of lab. Non majors may register with permission of the Chair of the Performing Arts Department. May be taken twice for credit.

The pre-requisite of DNC 1081 is required and the student must be a Dance major.

Credits: 3

Every Spring

DNC 1091 Beginning Jazz 1 - Hip Hop 1

Various jazz techniques, which may include hip-hop, and Broadway dance among others, are studied. Training in body isolations is preparation for the syncopated rhythms of hip hop movements and music. History of hip hop dancing is part of the curriculum. Live performance attendance required. Three hours. May be taken twice for credit.

Credits: 3

Every Fall and Spring

DNC 1101 Beginning Jazz 2 - Hip Hop 2

A continuation of DNC 1091 with more complex combinations taught. Live performance attendance required.

May be taken twice for credit

Pre-requisite of DNC 1091 is required.

Credits: 3

Every Spring

DNC 1121 Tap Dancing 1

Tap dancing is an American form of dance that includes soft shoe, clogging and hoofing. This course is open to all levels of tappers, including beginners, as they learn and explore the basic rhythms and structures of tap dancing. This course includes technique warm up which consists of a series of exercises which will be eventually set and built on throughout the semester. These are designed to prepare the body for tap dancing and improve technique. Center combination work which will focus on a rhythmic structure and articulation of sounds designed to improve musicality and rhythmic recognition. Various combination steps used for musical theater (shim sham, time steps, etc), across floor moving in space applying various rhythms and steps will also be employed. Improvisation where you will explore and create your own rhythms in tap and combination/dances: various styles (soft-shoe, Broadway style, rhythm style) which we will work on for several weeks at a time. Both written and visual materials will augment instruction and there will be a writing component in each course. Videos, reading, and attendance at a live performance are required. Three hours. May be taken twice for credit.

Credits: 2

Every Fall and Spring

DNC 1122 Tap Dancing 2

This course is a continuation of DNC 1121 with increasingly complex rhythms and structures. Three hours.

May be taken twice for credit.

The pre-requisite of DNC 1121 is required.

Credits: 2

Every Fall and Spring

DNC 2181 World Dance: African Diaspora

An introduction to the indigenous dance forms and traditions of the African Diaspora. A study of West African culture through the investigation of the dance and music of the Mandinko ethnic groups found in Guinea, Mali, Ivory Coast and Senegal.

This course will provide students with a fundamental understanding of the form and function of dance and music in society. Both written and visual materials will augment instruction and there will be a writing component in the course. Three hours. May be taken twice for credit.

Credits: 3

Every Fall and Spring

DNC 2182 World Dance: African Diaspora 2

A continuation of DNC 2181 with more complex movements and rhythmic structures. Students study the rituals from which the dances and drumming emerge. There will be assigned readings, videos and occasional guest lecturers. Both written and visual materials will augment instruction and there will be a writing component in this course. Three hours. May be taken twice for credit.

The pre-requisite of DNC 2181 is required.

Credits: 3

Every Semester

Music Courses

MUS 11 Elementary Piano I

Piano instruction in small classes, primarily for non-Music majors, designed to develop facility in sight-reading, improvisation and technique. MUS 11 is for the beginning Music student. Students are expected to have access to a piano for practice purposes. Only a limited number of on-campus practice accommodations can be provided.

Credits: 2

Every Fall and Spring

MUS 13 Voice Class I

A study of the basic principles of breathing, phrasing and voice placement using appropriate music from solo and choral literature. Open to Music majors and to non-Music majors with little or no vocal or choral experience.

Credits: 2

Every Fall

MUS 151 Individual Music Instruction for Non-Music Majors

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice -

one or two credits per semester. May be taken in subsequent semesters for credit. Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1

Every Semester

MUS 15P Individual Music Instruction for Non-Music Majors - Piano

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 15T Individual Music Instruction for Non-Music Majors - Theory

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit. Prerequisite:

Permission of the Department. Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1

Every Semester

MUS 15V Individual Music Instruction for Non-Music Majors - Voice

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit. Weekly lessons taught by a regular member of the faculty or a

professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1 to 2

Every Semester

MUS 16I Secondary Individual Music Instruction for Music Majors - Instrument

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit. Prerequisite:

Permission of the Department. Offered every semester. Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1

Every Semester

MUS 16P Secondary Individual Music Instruction for Music Majors - Piano

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1

Every Semester

MUS 16T Secondary Individual Music Instruction for Music Majors - Theory

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony. One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor

who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 16V Secondary Individual Music Instruction for Music Majors - Voice

Course in voice, instrument, piano, secondary piano, theory, ear training, and keyboard harmony.

One credit per course per semester, except voice - one or two credits per semester. May be taken in subsequent semesters for credit. Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department.

In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester. This course has an additional fee.

Credits: 1 to 2

Every Semester

MUS 61 Music and Culture

An introduction to musical styles that places music in its cultural context: history, painting, literature and ideas. To enhance the capacity to understand and enjoy music of every kind, the course begins with the elements of music that a composer combines in distinctive and characteristic ways to form a musical composition. Satisfies the core requirement for Richard L. Conolly students in Area IV of the Division of the Humanities.

Credits: 3

Every Semester

MUS 106 The Jazz Experience

A review of jazz music beginning with its African roots and New Orleans jazz, tracing its evolution through to modern jazz and its influence on contemporary composers. Discussions of the current jazz scene and the future of this art form are conducted.

Credits: 3

Every Semester

MUS 107 Music History I

A study of the history of Western music from the sacred and secular music of the Middle Ages to the radical innovations of the twentieth century. An advanced sequence of courses required of all Music majors and open to student majors in other departments subject to approval by the Music Program Coordinator, the first semester concludes with the study of Beethoven and his contemporaries.

Credits: 3

Every Fall

MUS 108 Music History II

A study of the history of Western music from the sacred and secular music of the Middle Ages to the radical innovations of the twentieth century. An advanced sequence of courses required of all Music majors and open to student majors in other departments subject to approval by the Music Program Coordinator, the first semester concludes with the study of Beethoven and his contemporaries.

Credits: 3

Every Spring

MUS 109 Music Education: Methods and Materials I

A course to develop the student's ability to organize, analyze, perform music and teach music through the utilization of appropriate materials and methods as related to children in grades K-8.

Credits: 3

Every Fall

MUS 110 Music Education: Methods and Materials II

A course to develop the student's ability to organize, analyze, perform music, and teach music through the utilization of appropriate materials and methods as related to children in grades 9-12.

Credits: 3

Every Spring

MUS 113 Voice Class II

An analysis of basic principles and techniques in developing the voice.

Open to both Non-Music majors and Music majors.

Credits: 2

Every Spring

MUS 114 African Music

A historical and thematic introduction to African and African American music. Students will see and hear African and African American music in the pre-colonial, colonial, and contemporary contexts, as well as gain an appreciation of African music, its relationship to the world, and cultural history.

Credits: 3

On Occasion

MUS 115I Advanced Individual Music Instruction for Non-Music Majors - Instrument

Offered every semester. Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit. Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard. Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 115P Advanced Individual Music Instruction for Non-Music Majors - Piano

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 115T Advanced Individual Music Instruction for Non-Music Majors - Theory

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 115V Advanced Individual Music Instruction for Non-Music Majors - Voice

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1 to 2

Every Semester

MUS 116I Advanced Individual Music**Instruction for Music Majors in Primary Performing Medium - Instrument**

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 116P Advanced Individual Music Instruction for Music Majors in Primary Performing Medium - Piano

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1

Every Semester

MUS 116V Advanced Individual Music Instruction for Music Majors in Primary Performing Medium - Voice

Courses offered in voice, piano or other instruments and in theory. One credit per course per semester, except voice, which may be taken for one or two credits per semester. May be taken in subsequent semesters for credit.

Weekly lessons taught by a regular member of the faculty or a professional teacher approved by the Department. In instances involving an instructor who is not a regular faculty member, the special fee per credit may be higher than the standard.

Interested students should consult with a departmental adviser before registering. The Music Program Coordinator must approve all assignments to individual private instructors every semester.

This course has an additional fee.

Credits: 1 to 2

Every Semester

MUS 122 Jazz Workshop

A workshop for instrumentalists/vocalists in jazz-

oriented music. Emphasis is on group playing, style and improvisation. Two credits. May be taken for credit in subsequent semesters but limited to four distribution credits for non-music majors.

Credits: 2

Every Fall and Spring

MUS 123J Chamber Ensemble

A performance class for small chamber-ensembles - jazz, vocal and instrumental, popular and classical. Flexible grouping is arranged according to needs and capacities of students. Individualized instruction offered. Assignment to instructors must be approved by the Program Coordinator. May be taken in subsequent semesters for credit.

Credits: 2

Every Fall and Spring

MUS 125 University Chorus

A mixed ensemble that focuses on a varied repertoire ranging from classical to contemporary choral works. Open to students, faculty and staff, and the local community. May be taken in subsequent semesters for credit.

Credits: 2

Every Fall and Spring

MUS 127 Conducting

A course designed to cover various aspects of choral and instrumental conducting.

Credits: 3

Every Fall

MUS 131 Harmony and Counterpoint I

A study of diatonic harmony, form, analysis, the basic concepts of counterpoint, and practical composition using models from the literature.

Pre-requisite of MUS 2 is required or permission of instructor.

Credits: 3

Every Fall

MUS 132 Harmony and Counterpoint II

A study of diatonic harmony, form, analysis, the basic concepts of counterpoint, and practical composition using models from the literature.

Credits: 3

Every Spring

MUS 133 Harmony and Counterpoint III

A continuation of Music 132 that embraces chromatic harmony, eighteenth century counterpoint, and practical composition in the smaller homophonic and polyphonic forms.

Pre-requisite of MUS 132 is required or permission of instructor.

Credits: 3

Every Fall

MUS 134 Harmony and Counterpoint IV

A continuation of Music 133 that embraces chromatic harmony, eighteenth century counterpoint, and practical composition in the smaller homophonic and polyphonic forms.

Credits: 3

Every Spring

MUS 135 Foundations of Arranging

A basic laboratory course designed to develop skill in the techniques of writing for small instrumental groups in jazz, rock and pop idioms. Analysis of recordings and scores conducted. Student work played in class.

Pre-requisite of MUS 132 is required or permission of instructor.

Credits: 2

Every Fall

MUS 152 Music Fundamentals

Offered every semester. A study of beginning sight singing, ear training, intervals and rhythms.

Credits: 3

Every Fall and Spring

MUS 153 Ear Training I

Class and laboratory work in sight singing and dictation of rhythms, melodies, intervals and chords. Course materials are scheduled so as to coordinate with the Music Theory sequence of courses.

The pre-requisite of MUS 152 is required or exemption by Chairperson of the Music Department.

Credits: 3

Every Fall

MUS 154 Ear Training II

Class and laboratory work in sight singing and dictation of rhythms, melodies, intervals and chords. Course materials are scheduled so as to coordinate with the Music Theory sequence of courses.

The pre-requisite of MUS 153 is required or an exemption by the Chairperson of the Music Department.

Credits: 3

Every Spring

MUS 161 Jazz Theory / Improvisation I

A study of the harmonic vocabulary of jazz, as a point of departure, to establish a basis for the development of improvisational skills through class performance - solo and ensemble. Theoretical concepts are stressed in an atmosphere of contemporary jazz styles.

The pre-requisite of MUS 132 is required or permission of the Instructor.

Credits: 3

Every Fall

MUS 162 Jazz Theory / Improvisation II

A study of the harmonic vocabulary of jazz, as a point of departure, to establish a basis for the development of improvisational skills through class performance - solo and ensemble. Theoretical concepts are stressed in an atmosphere of contemporary jazz styles.

The pre-requisite of MUS 132 is required or permission of the Instructor.

Credits: 3

Every Spring

MUS 163 Jazz Theory / Improvisation III

A study of theoretical techniques used in jazz for improvisation, including chords, rhythms, tonal, bi-tonal, polytonal, atonal and modal concepts.

Pre-requisite of MUS 161 and MUS 162 are required or approval of the Department.

Credits: 3

Every Fall

MUS 164 Jazz Theory / Improvisation IV

A study of theoretical techniques used in jazz for improvisation, including chords, rhythms, tonal, bi-tonal, polytonal, atonal and modal concepts.

Pre-requisite of MUS 161 and MUS 162 are required or approval of the Department.

Credits: 3

Every Spring

MUS 165 Jazz Ear Training I

A study of sight singing, dictation and style analysis organized around the jazz idiom. Class activity has as its primary goal the practical application of the trained ear to jazz performance.

Pre-requisite of MUS 4 is required or permission of instructor.

Credits: 3

Every Fall

MUS 166 Jazz Ear Training II

A study of sight singing, dictation and style analysis organized around the jazz idiom. Class activity has as its primary goal the practical application of the trained ear to jazz performance.

Pre-requisite of MUS 4 is required or permission of instructor.

Credits: 3

Every Spring

MUS 168 Advanced Arranging

The development of a student's personal style in arranging and composing via projects in melody writing, harmonic progressions, rhythmic exercises, and exploration of standard and new forms.

Analysis of twentieth century contemporary music is conducted.

May be taken in a subsequent semester for credit.

Credits: 2

Every Spring

MUS 170 Jazz Clinics

Lecture/demonstration by prominent guest jazz artists on various aspects of jazz style and performance. The critiquing by the guest artists of student performances is an integral part of each session. May be taken for credit in subsequent semesters, but limited to four distribution credits for non-music majors. Pass/Fail only.

Credits: 1

Every Fall and Spring

MUS 171 Jazz Composition I

An examination of the basic tools and skills of jazz

composition for the beginning composition student through analysis of selected pieces from jazz and classical repertoire. Jazz Composition II places emphasis on composition that reflects contemporary jazz and classical writing techniques, as well as techniques for the new technology, such as synthesizers, drum machines and other electronic instruments.

Credits: 2

Every Fall

MUS 172 Jazz Composition II

An examination of the basic tools and skills of jazz composition for the beginning composition student through analysis of selected pieces from jazz and classical repertoire. Jazz Composition II places emphasis on composition that reflects contemporary jazz and classical writing techniques, as well as techniques for the new technology, such as synthesizers, drum machines and other electronic instruments.

Credits: 2

Every Spring

MUS 175 Digital Audio I

An introduction to the technology and aesthetics of digital composition, sound design, multi-track recording and production using digital software including Pro Tools and Reason on state-of-the-art hardware. Workshops include computer-based multi-track MIDI sequencing and audio hard disk recording, editing and processing, automated software mixing, locking sequenced MIDI and audio tracks to video and film, electronic music concepts and samplers. Weekly individual access to studios is provided.

Pre-requisite of MA 101 is required or permission of the instructor.

Credits: 3

Cross-Listings: MA 107, MUS 175

Every Fall and Spring

MUS 176 Digital Audio II

An intermediate-level continuation of MA 107 in a workshop environment. This course continues to explore the technical and creative aspects (issues) of creating music and sound design. It will also work in Digidesign's Pro Tools and Reason software. It will look at how these two programs integrate. Topics include a deeper exploration of virtual instruments. Students will create samples and perform sample editing. MIDI sequencing and audio recording, in addition to learning editing and production concepts. Multi-track live recording, advanced mixing using automated control surfaces. Weekly individual access to studio facilities is provided.

Pre-requisite of MA 107/MUS 175 is required or permission of the instructor.

Credits: 3

Cross-Listings: MA 110, MUS 176

Rotating Basis

MUS 177 Digital Audio III

An advanced, project-oriented continuation of MA

110, that integrates the concepts and techniques involved in digital sound with an examination of music manipulation and creation. Mastery of previously studied material is stressed. Emerging formats and technology are discussed.

Unconventional, interesting and experimental software is examined and used.

The pre-requisite of MA 110/MUS 176 is

required or permission of the Instructor.

Credits: 3

Cross-Listings: MA 1141, MUS 177

On Occasion

MUS 180 The Music Business

A look at the jazz performer in today's business world: record production, music publishing, the concert, club and gig scene, copyrights, contracts, and career promotion.

Credits: 3

Cross-Listings: MA 257, MUS 180

Every Fall and Spring

MUS 181 Asian Music Seminar

An Asian music seminar is needed for students, in all majors, to further their vision of world cultures. The proposed seminar examines, discusses, and analyzes the varieties of music of the peoples throughout the East and South Asian sub-continents, laying the foundation for understanding Asia's role in the ancient, medieval, and enlightened worlds. The seminar will reflect music types, uses, and functions, which are very old, still performed, and even found in aspects of Western culture. The seminar also addresses aesthetics, religion, symbolism, and science, while discussing musical structures of melody, rhythm, texture, and form. Asian music systems have been well thought-out and practiced for thousands of years, so historical roots and metaphysical concepts of music are probed. Students will also understand how music in some Asian nations changed from Westernization and social ideologies such as communism. Part of the course will be drawn from the professor's research in Korea and Southeast Asia.

Credits: 3

On Occasion

MUS 185 Music Internship

Music majors may work as interns in various city-based musical organizations (e.g., music publishing, music management, recording). For third- and fourth-year Music majors only.

Credits: 2

Every Fall and Spring

MUS 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the Credits: A total of six credits of Honors Study is the

maximum allowed.

Credits: 3

Every Fall and Spring

MUS 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject.

Credits: A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Fall and Spring

MUS 201 Introduction to Music Notation Software

In this hands-on primer, students will become proficient in the use of Finale, the industry standard in music notation software. Through a number of project-based activities, as well as lectures and lab work, students will learn to create professional looking lead sheets, orchestral scores, and vocal and instrumental arrangements. This course will also help students in the completion of theory, arranging, and composition assignments for other required music courses.

Credits: 3

Cross-Listings: MA 201, MUS 201

Every Semester

Theater Courses

THE 61 The Theatrical Vision

This core course gives students the opportunity to learn about the history of theatre, the visual and kinesthetic elements of production and performance, the audience as spectators, how to read and analyze plays and the use of space in creating the theatre experience for both performer and audience.

Credits: 3

Every Semester

THE 101 Demystifying Writing about Theatre

This course is designed to arouse responses to drama, help recognize those responses and learn how to document them. Students are guided through basic principles and processes that apply to almost any writing challenge. It conveys the elusive concepts inherent in analysis and argument and will, therefore, help to advance an informed opinion and perception. Study focuses on some of the world's most engaging theatre critics. Students will learn how to write colorful, entertaining performance reviews and will make effective use of sources to corroborate their ideas into a research paper. Writing, like theatre going, is an active, not a passive, occupation. Writers must decide where to look and how closely. They must block out distractions and concentrate on their ideas to prevent them from evaporating. Writing is a deep,

thoughtful and fascinating process.

Credits: 3

On Occasion

THE 130 Production Lab

Students are presented with the opportunity to acquire a wide range of practical experience in the actual production of a play performance. Students are assigned to work in the following areas of production: performance, consisting of acting, technical and stage craft, such as set construction and painting, costumes, props, lighting; managerial, including box office, house and stage management, advertising. Students, instructed by theatre professionals, are involved in each step of production, from initial planning through rehearsal to performance before an audience. May be taken up to four times for credit in subsequent semesters.

Credits: 3

Every Fall and Spring

THE 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ration of 3.00, a 3.25 ratio in their major subject and the permission of the Chair of the Performing Arts Department and the Dean. A total of six credits of Honors Study is the maximum allowed. Three credits per semester.

Credits: 3

On Demand

THE 196 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ration of 3.00, a 3.25 ratio in their major subject and the permission of the Chair of the Performing Arts Department and the Dean. A total of six credits of Honors Study is the maximum allowed. Three credits per semester.

Credits: 3

On Demand

THE 197 Independent Study

This course is designed to give students in their junior or senior year an opportunity to do independent work under the guidance of a member of the Theatre faculty. There are no regular class meetings. Students may undertake either a production or a research paper. Prerequisites: Permission of student adviser, the Department Chair and the Dean.

Credits: 3

On Demand

THE 198 Independent Study

This course is designed to give students in their junior or senior year an opportunity to do independent work under the guidance of a member

of the Theatre faculty. There are no regular class meetings. Student may undertake either a production or a research paper.

Pre-requisites: Permission of student advisor, the Department Chair and the Dean.

Credits: 3

On Demand

THE 199 Theatre Arts Internship

During their senior year, theatre students are strongly urged to undertake one or more internships with a theatrical organization. Consultation with and approval of the Department is required. May be taken in subsequent semesters for credit.

Credits: 3

On Demand

THE 1221 Introduction to Playwriting

The writing and structuring of monologues, scenes, one-act plays and, possibly, full-length plays.

Emphasis is on particular limitations, possibilities and specific techniques of writing for the stage.

Students may be given the opportunity to see their writing produced in workshops. Prerequisite:

Permission of the instructor.

Credits: 3

Cross-Listings: MA 1481, THE 1221

On Occasion

THE 1251 Acting I

An introductory study of acting, including acting exercises, analysis and interpretation of roles, and improvisations. Each student prepares and performs various acting exercises and a minimum of one dramatic monologue. In addition, each student rehearses and performs in a scene consisting of two or more characters.

Credits: 3

Cross-Listings: MA 1591, THE 1251

Every Fall and Spring

THE 1252 Acting II

A continuation of THE 125.1 that emphasizes scene analysis and the creation of stage characterization. Students perform in a variety of scenes and other acting assignments.

Pre-requisite of THE 1251/MA 1591 is required.

Credits: 3

Cross-Listings: MA 1592, THE 1252

Every Fall and Spring

THE 1253 Acting III Rehearsal and Performance: Modern Scene Study

An investigation of rehearsal procedure, including character and script analysis, and a final emphasis on techniques of scene performance. Students are required to see two plays and write a critique of each. Prerequisites: THE 125.1, 125.2.

Pre-requisites of THE 1251 and THE 1252 are required.

Credits: 3

Cross-Listings: MA 1593, THE 1253

Every Fall

THE 1261 Movement and Voice for Actors I

A course designed to give students an understanding of their bodies and voices and how to develop them for the stage and screen. Exercises are used to help students strengthen posture, alignment, breathing and vocal power for projection in the theatre - an exploration in the organic connection of body, mind and spirit. The process prepares the student for the integration of the physical, emotional and spiritual aspects of the human condition that are essential to the actor's understanding and portrayal of any character in the theatre.

The pre-requisite of SPE 3 or HSP 21 or HSP 22 is required.

Credits: 3

Cross-Listings: SPE 1781, THE 1261

Every Fall

THE 1391 On-Camera Performance I

An introduction to the practice and principles of on-camera performance for broadcast and film media. Using closed-circuit television interactively, students work on exercises in acting, news reading, interviewing and standup reporting. Professional guest speakers share experiences.

Credits: 3

Cross-Listings: MA 1581, THE 1391

Rotating Basis

THE 1392 On-Camera Performance II

An intermediate workshop designed to expand upon the skills and knowledge gained in On-Camera Performance I. Emphasis is on cold reading, character creation, teleprompter reading and scene analysis.

The pre-requisite of MA 1581 / THE 1391 is required or permission of the Department.

Credits: 3

Cross-Listings: MA 1582, THE 1392

Rotating Basis

THE 1393 On-Camera Performance III

An advanced workshop designed to enable a small group to work collaboratively on mastery of techniques learned in MA 1582. Emphasis is on audition technique and creating monologues.

The pre-requisite of MA 1582 / THE 1392 is required or permission of the Department.

Credits: 3

Cross-Listings: MA 1583, THE 1393

Rotating Basis

Department of Visual Arts

Senior Professor Dantzig
 Professor Rudey
 Professor Emeritus Ries
 Associate Professors Barry, Grove (Director of Galleries), Lorenz (Chair)
 Adjunct Faculty: 15

The Visual Arts Department, based in the rich culture of New York City, offers a unique environment for the study of fine arts in the areas of glass blowing and casting, ceramics and sculpture, printmaking, painting, and other traditional mediums that coexist with interdisciplinary studies in photography, computer graphics, digital design, and book arts. The Department is composed of recognized practicing professional artists and art historians who are engaged, through exhibitions and publications of their work, in the contemporary art world. The Visual Arts Department also maintains a program of changing professional exhibitions in three on-campus gallery spaces and an annual outdoor sculpture exhibition as curricular enrichment and a community service. All Visual Arts students participate in a senior thesis exhibition in the gallery.

We offer three baccalaureate degrees: the Bachelor of Arts, the Bachelor of Fine Arts, and the Bachelor of Fine Arts in Teacher of Visual Arts in Urban Schools.

B.A. in the Visual Arts

The B.A. in Visual Arts is available with courses in painting, drawing, ceramics, sculpture, computer art and art history. Students who major in the Visual Arts are offered an opportunity to center their studies around the practice and history of the visual experience.

B.A., Visual Arts

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 9 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 or 4 credits

Science 7 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
 (DNC, MUS, THE)

OS 1 The University: 1 credit

Discovery and Change

Distribution Requirement

Must Complete Both Courses Below:

MA or 115 Introduction to 3.00
 ART Photography

MA or 124 Computer Graphics I 3.00
 ART

Major Requirements

Must Complete All Courses Below:

ART 101 Caves to Cathedrals 3.00

ART 102 Incas to Impressionists 3.00

ART 103 Modern Art 3.00

ART 133 Introduction to Ceramics 3.00

ART 155 Painting II 3.00

ART 170 Two-Dimensional 3.00

ART 171 Introduction to Color 3.00

ART 176 Introduction to 3.00
 Printmaking

ART 187 Portfolio Development 3.00

ART 138 Basic Sculpture 3.00

ART 194 Portfolio Review - repeat 1.00
 3 times

ART 1501 Drawing I 3.00

ART 1521 Drawing II 3.00

ART 1541 Painting I 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 96 credits

Minimum Total Major Credits: 43 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See above

Minimum Major G.P.A.: 2.00

Minimum Cumulative G.P.A.: 2.0

B.F.A. in Teacher of Visual Arts in Urban Schools

The 128-credit Bachelor of Fine Arts in Teacher of Visual Arts in Urban Schools provides

the required background in art history and art production, in conjunction with the Teaching and Learning courses necessary to meet the minimum requirements for initial certification as a teacher of visual arts, K through 12, as stipulated by the New York State Department of Education. Please refer to School of Education's Teaching & Learning Department in this bulletin for further information on Graduation and Certification requirements.

B.F.A. Teacher of Visual Arts in Urban Schools

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 6 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3 - 4 credits

Science 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
 (DNC, MUS, THE)

Orientation Seminar 1 credit

Distribution Requirement - Complete Both

Courses Listed Below:

MA or 115 Introduction to 3.00
 ART Photography

MA or 124 Computer Graphics I 3.00
 ART

Major Requirements

Art Education Major Requirements

All Art Courses Listed Below:

ART 101 Caves to Cathedrals 3.00

ART 102 Incas to Impressionists 3.00

ART 103 Modern Art 3.00

ART 134 Introduction to Potter's 3.00
 Wheel

ART 133 Introduction to Ceramics 3.00

ART 146 Methods of Teaching Art: 3.00
 Elementary

ART 147 Methods of Teaching Art: 3.00
 Secondary

ART	170	Two-Dimensional	3.00
ART	176	Introduction to Printmaking	3.00
ART	187	Portfolio Development	3.00
ART	194	Portfolio Review - repeat 3 times	1.00
ART	1501	Drawing I	3.00
ART	1541	Painting I	3.00
TAL 431 is the same as ART 146			
TAL 432 is the same as ART 147			

All Education Courses Listed Below:

TAL	201	Teaching: Imagine the Possibilities	3.00
TAL	301	Observing and Describing Children	3.00
TAL	350	The Developing Child	4.00
TAL	351	Language and Literacy I	3.00
TAL	353	Creating Inclusive Classrooms	3.00
TAL	399	Preparing for the NYSTCE	0.00
TAL	406	Health Education for Teachers	1.00
TAL	465	Student Teaching in Art Education	6.00
TAL	466	Student Teaching Seminar in Art Education	2.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 36 credits
 Minimum Total Education Major Credits: 25 credits
 Minimum Total Art Credits: 37 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Education Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

The following certification requirements also need to be satisfied:

- ALCX 702, ALCX 703, ALCX 704 workshops
- NYSTCE test requirement

B.F.A. in Studio Art

The Bachelor of Fine Arts in Studio Art is an intensive studio art-oriented program that prepares students for graduate schooling in Art or entry into a wide variety of art- related careers. Students complete the introductory classes, after which they may select classes in ceramics, sculpture and glass, painting, drawing, or printmaking. Both freshmen and transfer students are required to submit a portfolio of work before admission to the program.

B.F.A., Studio Art

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	3 credits
Philosophy	3 credits
Foreign Language	Not required

Social Sciences

History	3 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	9 credits

Science and Mathematics

Mathematics	4 credits
PHY 20	3 credits

Communication, Visual & Performing Arts

Speech	3 credits
Dance, Music or Theater 61	3 credits

Orientation Seminar Core 1 credit

Distribution Requirement

Must Complete either Art 115 or MA 115 and either Art 124 or MA 124

Ancillary Requirement

Science Core Requirement : Chemistry required of students with a concentration in ceramics.

CHM	21	Chemistry and Modern Technology	3.00
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Major Requirements

Following are required courses:

ART	101	Caves to Cathedrals	3.00
ART	102	Incas to Impressionists	3.00
ART	103	Modern Art	3.00
ART	105	New Art City	3.00
ART	133	Introduction to Ceramics	3.00
ART	134	Introduction to Potter's Wheel	3.00
ART	138	Basic Sculpture	3.00
ART	155	Painting II	3.00
ART	170	Two-Dimensional	3.00
ART	171	Introduction to Color	3.00
ART	176	Introduction to Printmaking	3.00
ART	177	Intermediate Printmaking	3.00

ART	187	Portfolio Development	3.00
ART	194	Portfolio Review	1.00
Must be repeat three times (3)			
ART	197	Independent Study	3.00
ART	198	Independent Study	3.00
ART	1501	Drawing I	3.00
ART	1521	Drawing II	3.00
ART	1541	Painting I	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 38 credits
 Minimum Total Major Credits: 78 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Ancillary Course Requirements: See above
 Distribution Requirement: See above
 Minimum Major G.P.A.: 2.00
 Minimum Cumulative G.P.A.: 2.0

Upon the completion of studies, students, in all Visual Arts programs are required to create a large-scale conceptually based thesis project for public exhibition.

Visual Arts Courses

ART 61 Introduction to Visual Art

We live in an increasingly visual culture, so it is important to look critically at the images that surround us. It is equally important to experience and understand art from many cultures and time periods, so we can appreciate the wide variety of artworks that people around the world have created. One class objective is to increase each class member's ability to analyze and understand artworks and to communicate that understanding to others. The class also aims to increase each class member's knowledge and appreciation of artworks from other cultures and time periods.

Credits: 3

All Sessions

ART 101 Caves to Cathedrals

Students will become familiar with core examples of Western and non-Western material culture, art, and architecture emerging out of Europe, the Americas, Asia, and Africa from the Paleolithic era to the 14th century. Students will consider the crucial role of these images and objects in the formation of their respective historical and cultural context. Through museum visits, readings, class discussions and writing assignments, students will explore the following questions: What is art? Is the appearance, or form of an art or design object its most important element? Is iconography an essential component? What roles do religion, biography, psychology, philosophy, society and politics play in the production of material culture, artmaking, and perception? Students will augment their critical understanding of this information through research methods.

Credits: 3

Every Fall

ART 102 Incas to Impressionists

This course will introduce students to artworks created by artists in Africa, Asia, Europe, and the Americas during the time period 1400 to 1900. It will also provide students with the foundational knowledge required for more advanced studies in art history. To accomplish these ends, students will be exposed to a wide variety of different kinds of artworks and artists from this time period through images, videos, and field trips. Students will learn to recognize major artworks, styles, and artists. From readings and discussions, students will learn about the historical and cultural contexts from which the artworks came. From discussions and writing assignments, students will also learn to analyze, contextualize, and compare artworks verbally and in writing.

Credits: 3

Every Spring

ART 103 Modern Art

A review of the development of European and American modern art from French Impressionism

of the nineteenth century through styles and movements that include Postimpressionism, Symbolism, Art Nouveau, Expressionism, Cubism, Futurism, Dada, Surrealism, Constructivism and Abstract Expressionism. Includes frequent visits to art galleries and museums. Three credits.

Credits: 3

Every Fall

ART 105 New Art City

Through art gallery and museum visits, slides and videos, an exploration of the wide variety of styles and meanings within contemporary art and the varied intentions of contemporary artists. Selected developments from Abstract Expressionism to the present, including Pop, Minimal, Conceptual, Performance and Neo-Expressionist art are examined.

Credits: 3

Cross-Listings: ART 105, MA 264

Every Spring

ART 115 Introduction to Photography

An introduction to photography as an art medium. Basic principles and practices of black-and-white photography processing and printing are reviewed. All students are provided with a 35 mm camera. (Same as ART 115.)

Credits: 3

Cross-Listings: ART 115, MA 115

Every Fall and Spring

ART 116 Studio Photography

An in-depth study of studio photography, using a variety of lighting techniques and setups. Students cover such topics as tungsten lights, reflected and direct lights, strobes, advanced metering, exposure, portraiture and different tabletop setups. *The pre-requisite of MA 115 / ART 115 or MA 118 / ART 118 is required or permission of instructor.*

Credits: 3

Cross-Listings: ART 116, MA 123

Rotating Basis

ART 117 Intermediate Photography

A production-based class in photographic printing, using fiber-based papers. Filters, print toning, lighting and medium-format imaging are discussed. Projects are thematically based and include an extensive final presentation.

Pre-requisite of MA 115/ART 115 is required.

Credits: 3

Cross-Listings: ART 117, MA 117

Rotating Basis

ART 118 Digital Photography I

An introductory class using digital cameras and computers to record and print photographic imagery. The class focuses on photography as art, using new approaches and techniques. Course requirements include weekly assignments, midterm and final portfolio. All students are required to purchase a compact flash card. The department will

supply digital cameras.

Credits: 3

Cross-Listings: ART 118, MA 118

Every Fall and Spring

ART 120 Creative Photography

Independent exploratory study and experimentation in advanced non-silver photographic techniques such as, Cyanotype, Van Dyke brown, Kallitype and Palladium.

The pre-requisite of MA 115 / ART 115 or MA 118 / ART 118 is required or permission of instructor.

Credits: 3

Cross-Listings: ART 120, MA 120

Rotating Basis

ART 122 Digital Photography II

A workshop-oriented intermediate level digital photography course. The focus is on advanced digital photographic camera skills and digital print output using alternative and archival media methods. Emphasis is on a digital portfolio and personal artistic statements. Students produce a portfolio of thematic presentation using both traditional film scanned images and digital media capture. Students are provided with a digital camera for the semester.

Pre-requisite of MA 118/ART 118 is required.

Credits: 3

Cross-Listings: ART 122, MA 122

Every Spring

ART 124 Computer Graphics I

An introductory level class in two-dimensional computer graphics using Adobe Photoshop. Students learn and work with basic digital illustration and graphics, scanning of images, image editing, image manipulation, photo manipulation, typography and image composition.

Credits: 3

Cross-Listings: ART 124, MA 124

Every Fall and Spring

ART 125 Computer Graphics II

An intermediate-level class covering professional studio techniques in the production of computer-based graphics and imaging projects for screen and print. Special emphasis is placed on digital design principles for still imaging.

Pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 125, MA 132

Rotating Basis

ART 125 2-D Computer Animation I

An introduction to basic computer-based animation using two-dimensional graphics, paint, image-editing and animation software. Students work with digital Ink & Paint, rotoscoping, and motion path-based techniques for character animation and motion graphics.

The pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 125, MA 1242

On Occasion

ART 133 Introduction to Ceramics

An exploration of various hand-building techniques, including pinch, coil and slab. Emphasis is on integrating practical craft and personal expression to create basic pottery forms. Glazing and surface design also are explored.

Credits: 3

Every Fall, Spring and Summer

ART 134 Introduction to the Potter's Wheel

This course covers making ceramic pieces on the potter's wheel to create functional and decorative pottery forms. Glaze technology and fundamental firing techniques will also be explored.

Credits: 3

Every Fall, Spring and Summer

ART 135 Ceramic Sculpture

An approach to ceramics as a non-utilitarian art medium. Studio work in construction methods, modeling techniques, decoration and firing are combined with illustrated lectures and discussion. Visits are made to current ceramic exhibitions in New York City.

The pre-requisite of ART 133 is required.

Credits: 3

Rotating Basis

ART 136 Intermediate Handbuilding

Traditional and experimental approaches to the construction of bowls and other containing forms of the clayworker's art. Development of individual concepts and styles is encouraged within the historical context presented through illustrated lectures, studio projects and visits to current exhibitions.

The pre-requisite of ART 133 or 134 is required

Credits: 3

Every Spring

ART 137 Intermediate Potter's Wheel

This course covers making intermediate level ceramic pieces on the potter's wheel. Students will explore functional, non-functional and decorative pottery forms. Glaze making and various firing techniques will also be explored.

The pre-requisite of ART 134 is required.

Credits: 3

Rotating Basis

ART 138 Basic Sculpture

Students will be introduced to traditional and non-traditional artists and learn techniques of manipulating various mediums in a hands-on approach. This course will train students to see and perceive their surroundings, while gaining experience in technical abilities, and learning to apply these skills in a personalized approach to problem-solving. Students will be challenged to address art from many angles, including direct observation, imagination and collaboration and research.

Credits: 3

Every Spring

ART 139 Graphic Design

This introduction to Graphic Design is a hands-on class utilizing the computer and traditional art making materials. Graphic design is a creative process that combines art and technology to communicate ideas. The main tools are image and typography. The class will teach image based design and type-based design as a means of visual communication. Class includes lecture and additional lab hours.

Credits: 3

Every Spring

ART 142 Jewelry: Wearable Art

A survey of materials and techniques. Emphasis is on skill development and exploration of a wide variety of materials including clay, paper and found objects. Classes will consist of demonstrations and technical practice. Students focus on individual concepts and design. A written assignment will allow the student to study, sketch and describe jewelry objects from galleries and museums. Each student will keep a journal with sketches of ideas and weekly additions of print examples of jewelry.

Credits: 3

Every Fall and Spring

ART 146 Methods of Teaching Art: Elementary

Hands-on use of the appropriate materials for the child in elementary school, such as paint, clay, papier mache and textiles. Includes lectures, readings, a museum visit and observations at an elementary school. This course has additional fees. 10 Hours of Fieldwork.

Credits: 3

Cross-Listings: ART 146, TAL 431

Every Fall

ART 147 Methods of Teaching Art: Secondary

Use of materials and formulation of projects for students on the secondary level (7-12). Formal lesson plans are developed dealing with structured studio art classes in art history, drawing, painting, perspective, ceramics, photography and fiber design.

Credits: 3

Cross-Listings: ART 147, TAL 432

Every Spring

ART 155 Painting II

Students explore the painting medium in both traditional and contemporary methods. Projects are based on customary subject matter such as figure models but they also will derive images from collage, photography and digital media programs to make paintings. Students have opportunities to experiment with unconventional painting mediums and may explore alternative options for painting supports. Lectures on how technology affects the creation and interpretation of images will be offered and students will be assigned a project that will require them to consider the philosophical discourse of how painted images are read in a given

context.

The pre-requisite of ART 154.1 is required.

Credits: 3

Every Spring

ART 156 Painting III

Individual attention and criticism given to each student with the aim of achieving a distinctive personal expression. Form, concept, space and color are emphasized as individuality is encouraged through analysis and discussion. Projects will be based on customary subject matter such as figure models but they also will derive images from collage, photography and digital media programs to make paintings. Students will have opportunities to experiment with unconventional painting mediums and may explore alternative options for painting supports. This course requires that students be more self-directed and that outside-class research and class critiques will be necessary for artistic development.

The pre-requisite of ART 155 is required.

Credits: 3

Alternate Years

ART 157 Figure Drawing

This course will provide the student with the opportunity to study and draw human anatomy. Students will learn basic anatomy through medical imagery, plastic and real figurative models, and by careful analysis of master figurative drawings. They will begin to develop an understanding of the way a figure inhabits space, and will be able to successfully reproduce the human form in a two-dimensional picture plane. Emphasis will be on accurately rendering the figure in correct proportion while considering the aesthetics of drawing. Additional lectures and demonstrations will allow students to consider the image of the body in the context of cultural theory and art history as well.

Credits: 3

Every Spring

ART 159 Introduction To Watercolor

Watercolor is a transparent medium primarily painted on a paper surface. The basis for each project will be elements of design with emphasis on color theory; principles of design with emphasis on overall compositional structure; and basic drawing with emphasis on drawing with a brush.

Techniques specific to watercolor painting will be introduced including use of papers, brushes, washes, wet on wet and wet on dry, use of masks, making corrections, and techniques specific to students' individual work. Subject matter will include still life, landscape/cityscape, and the human figure. As a starting point for image development, some projects will be from direct observation and some projects will be developed from photographs that students take themselves.

Credits: 3

Every Summer

ART 170 Two-Dimensional

An introduction to the essential elements of visual

perception. Students work in a studio setting, exploring a variety of contemporary concepts and materials as related to all fields of two dimensional art and design. Offered every Fall.

Credits: 3

Every Fall

ART 171 Introduction to Color

An introduction to the practical use of color as an active and interactive medium in the arts based on the pioneering work of Josef Albers. Students will study color theory by creating works based on specific concepts and by closely considering the color in their world. Students will gain an understanding of color characteristics and relationships, build color terminology for precise description, enhance compositional and technical skills, become familiar with acrylic gouache, develop a critical and perceptive eye, gain a heightened awareness of color, and consider its influence in their life and work.

Credits: 3

Every Spring

ART 172 Workshop on Children's Book Illustrations

Using a large collection of classic children's books as a resource, each student in this hands-on analog and digital course develops an original book from concept to completed layout. Illustration, book design, layout and typography are all stressed.

Credits: 3

Alternate Spring

ART 173 Introduction to Calligraphy

A study of the development of Western calligraphy, italic uncial and black letter. Letterform terminology, spacing, serif construction, and flourishing are all practiced in this hands-on course.

Credits: 3

Every Fall

ART 174 Intermediate Calligraphy

A hands on practice that examines the variations in weight, width, serif structure, size, and so on of roman and italic alphabets. Uncial and carolingian alphabets are introduced. Use of color and special papers and writing large are covered.

The pre-requisite of ART 173 is required.

Credits: 3

On Occasion

ART 175 Creative Handmade Books

The art of bookbinding and the book arts are explored through literary traditions, visual narratives and kinetic three-dimensional structures. Students discover a multitude of new media through these traditions and the innovations that have been explored by contemporary book artists.

Credits: 3

On Occasion

ART 176 Introduction to Printmaking

Introduction to the technical and conceptual practice of creating original prints on paper using

wood, linoleum, and metal. Students will use a large printmaking press to create editioned artworks on paper, journals, bags or clothing.

Credits: 3

Every Fall and Spring

ART 177 Intermediate Printmaking

An examination of color and multi-plate printmaking using both relief and intaglio printmaking techniques. Printmaking is a medium used by artists to create original prints on paper using a matrix; wood, linoleum, metal, stone, etc. This is an intermediate class for students with printmaking experience. You will be invited and encouraged to take on more challenging projects than you did in earlier classes. While you learn additional techniques and processes. You will also be challenged to expand your ideas and become more self-directed.

The pre-requisite of ART 176 is required.

Credits: 3

Every Fall

ART 178 Advanced Printmaking

Printmaking is a medium used by artists to create original prints on paper using a matrix; wood, linoleum, metal, stone, etc. This course will focus on a variety of printmaking including relief, intaglio and lithography. This is an advanced class for students with printmaking experience. You will be invited and encouraged to take on more challenging projects than you did in earlier classes. You will also be challenged to expand your ideas and become more self-directed in your projects while still learning new techniques.

The pre-requisites of ART 176 and ART 177 are required.

Credits: 3

Every Spring

ART 179 Digital Printmaking

The concepts and techniques of traditional printmaking and an introduction to the means and methods of digital art-making. Combining traditional printmaking with digital technologies, students link the formal qualities inherent in two-dimensional art-making with the non-linear spatial, ephemeral aspects of cyberspace. (Formerly ART 216.)

The pre-requisite of MA 118 or MA 124 is required.

Credits: 3

On Occasion

ART 182 Typography

Typography is the art of organizing letters in space and time. Students gain a familiarity with typographic terms and technologies; an understanding of classical and contemporary typographic forms; and ability to construct typographic compositions and systems; and an appreciation of typography as an expressive medium that conveys aesthetic, emotional, and intellectual meaning.

Credits: 3

On Occasion

ART 187 Portfolio Development

An intensive semester of strategic planning for artists as it pertains to professional working artists in any medium. Goal setting, time management, financial planning and grant writing, public relations, exhibition planning and hanging exhibitions; every aspect of a fine artist's career is covered. The class ultimately prepares each student for production, design and promotion, both through the press and financially, for their senior thesis exhibition.

Credits: 3

Cross-Listings: ART 187, MA 165

Alternate Spring

ART 189 Workshop in Glass Making

An introduction to the artistic possibilities of glass: glass blowing, casting, neon, cold technique. Three credits. May be taken in subsequent semesters for credit.

Credits: 3

Every Semester

ART 194 Portfolio Review

Required for Art Majors and repeated three times. Students select faculty mentors to instruct them in the art of developing an effective portfolio for critique by the Visual Arts faculty in April. Students develop personal projects out of their classwork.

Credits: 1

Every Spring

ART 195 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Semester

ART 196 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

Every Semester

ART 197 Independent Study

Students develop their own projects with the skills they already possess. Faculty members guide

students through conceptual development and troubleshooting. Prerequisite: Permission of the Chair of the Department and the Dean.

Credits: 3

Every Semester

ART 198 Independent Study

Art Major develops their thesis project for exhibition under the mentorship of a faculty member. Prerequisite: Permission of the Chair of the Department and the Dean. Offered every semester.

Credits: 3

Every Semester

ART 217 Glass Blowing

An introduction to the process of glass blowing. Technique, artistic possibilities and glass history are covered. Class meets at Brooklyn Glass, 103 14th Street, Brooklyn, NY 11215.

Credits: 3

Every Semester

ART 1243 3D Computer Graphics I

An introductory level class in 3D Computer Graphics for film, video, games, print and the World Wide Web. Students will learn basic modeling, texturing, scene design, digital cinematography and rendering using the latest hardware and software in the field. This class is a prerequisite for the 3D Animation class (MA 134.2), which is offered in the Spring.

Pre-requisite of MA 124 is required.

Credits: 3

Cross-Listings: ART 1243, MA 1341

Every Fall

ART 1371 Advanced Potter's Wheel

Advanced exploration of the aesthetics, cultural philosophies and advanced techniques of the potter's wheel. Various firing methods and development of a personal aesthetic is stressed. Prerequisite ART 134.

Credits: 3

On Occasion

ART 1391 Intermediate Sculpture

An in-depth exploration of a specific sculpture material, such as wood, stone or metal. The use of tools specific to the material, drawings of the project, maquettes and finished projects are all explained.

The pre-requisite of ART 138 is required.

Credits: 3

On Occasion

ART 1501 Drawing I

A concentration on the fundamentals of drawing, perspective, light and shade. The course emphasizes the traditional principles of representational drawing and the use of basic materials. This course is intended as an introduction to the building blocks of visual language: form, line, value, and composition. You will learn to draw accurately based on direct

observation, creating the illusion of three-dimensional form within the two-dimensional realm of the picture plane. You will develop a sense of visual acuity and learn to perceive and organize visual information through drawing from still life and interiors.

Credits: 3

Every Semester

ART 1521 Drawing II

A continuation of Drawing I. This class approaches the study of drawing and the improvement of drawing skills with increased opportunities for personal expression. Content, as well as mark making, style, and craft are to be explored and developed in this class. Students develop stronger skills and an understanding of the representation of objects and the human form for more advanced lessons and assignments.

The pre-requisite of ART 150.1 is required.

Credits: 3

Every Spring

ART 1522 Drawing III

Students will develop an advanced studio practice and become familiar with a range of wet and dry drawing media. Students explore a variety of drawing techniques, through class projects, homework assignments, and field trips. Students will be introduced to a broad range of artistic approaches, through a range of art historical and contemporary sources. Students will work from observation through still life, interiors, landscape and the figure and investigate the possibilities of imaginative drawing, developing independent projects incorporating found imagery.

The pre-requisite of ART 152.1 is required.

Credits: 3

On Demand

ART 1541 Painting I

An introduction to basic materials and their use: setting up the palette, mixing and using colors, beginning a painting. No previous experience in painting is required. The completion of at least one drawing class is highly recommended, but not required.

Credits: 3

Every Semester

HONORS PROGRAM

The University Honors Program is a nationally recognized liberal arts program for undergraduate students in all disciplines at LIU Brooklyn. It is designed to assist students to become critical and independent thinkers. That goal is accomplished through an enriched core curriculum in small, seminar-style liberal arts classes that stress student participation and independent learning. The Honors Program also gives students freedom to design their own majors. Students interested in the Contract Major should meet with an Honors Director. Within the University, the Honors Program fosters an engaged community of learners, providing opportunities for intellectual support, social interaction, and leadership development.

The University Honors Program is also active in national organizations representing Honors students and undergraduate research. University Honors students are encouraged to shape their own education in a variety of ways. They may do so by taking a broad range of courses outside their areas of concentration, by attending national and regional conferences involving undergraduate research, and by participating in national and international seminars sponsored by Honors and its affiliate organizations.

B.A. in Interdisciplinary Major

B.A., Interdisciplinary Major Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar* and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin. Honors students are required to complete a set of courses that are equivalent to and meet the Humanities, Social Science, and Communication, Visual & Performing Arts core requirements.

Core Curriculum Requirements for the Honors Program are summarized below:

Core Seminar Not required

Humanities

English Composition Not required
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language ** 6 credits

Social Sciences

History 6 credits
 Social Sciences 6 credits

Science and Mathematics

Mathematics *** 3 - 4 credits
 Science **** 8 - 10 credits

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits

* Orientation Seminar (OS 1) is not required for first year students enrolled in the Honors Sequence, which covers the Literature, Philosophy, and History core requirements.

** Foreign Language Core: Honors student should consult their Honors advisor regarding their foreign language core requirements.

*** Mathematics Core: Honors students must follow the mathematics core requirements of their selected major.

**** Science Core: Honors students must follow the science core requirements of their selected major.

Major Requirements

The Honors Program requirements fit into all majors. In addition to completing the Honors core curriculum requirements, students must complete 3-4 Honors Advanced Elective seminars. Students should consult individual departmental major requirements in this Bulletin for specific requirements within their major beyond the Honors core and electives.

Honors Advanced Elective Requirement:

Students who have completed the Honors Sequence are required to take three 100-level Honors Advanced Elective seminars (9 credits) to complete the program. Students who transfer into Honors after completing the core requirements must take four 100-level Honors Advanced Elective seminars (12 credits) to complete the program.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 96 credits
 Minimum Total Major Credits: 31 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0*****
 ***** Honors students must maintain a cumulative G.P.A. of 3.0 or above to receive, upon graduation, the Honors designation on their diploma and transcript.

B.S. in Interdisciplinary Major

B.S., Interdisciplinary Major Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation* and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin. Honors students are required to complete a set of courses that are equivalent to and meet the Humanities, Social Science, and Communication, Visual & Performing Arts core requirements.

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 ***** Honors students must maintain a cumulative G.P.A. of 3.0 or above to receive, upon graduation, the Honors designation on their diploma and transcript.

Honors Courses

HAR 21 Art, Music, and Dance in Social Context

An introduction to the language of the arts as well as the methodologies used to analyze and appreciate the arts. HAR 21, American Modern, focuses on Modernism in America, tracing the development of modern music, art and dance from the early 20th century (1900) through the 1940's. The historical, social and cultural trends that emerged in this period-and how and why they influenced the arts-will also be studied.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HAR 22 Art, Music, and Dance in Social Context

An introduction to the language of the arts as well as the methodologies used to analyze and appreciate the arts. HAR 22, American Postmodern, examines the roots of Post-Modernism and traces its development in music, art and dance from the 1950's to the present. The historical, social and cultural trends that emerged in this period ~ and how and why they influenced the arts ~ will also be studied.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HEG 21 Literature of the Human Imagination

An introduction to the nature and function of literature. Emphasis is on critical skills needed for the appraisal and interpretation of literature. Texts are selected from all genres and reflect literature of historical and contemporary cultures around the globe. Taken in conjunction with Honors History (HHI 21) and Honors Philosophy (HHP 21). Satisfies the English and WAC requirements for graduation.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HEG 22 Literature of the Human Imagination

An introduction to the nature and function of literature. Emphasis is on critical skills needed for the appraisal and interpretation of literature. Texts are selected from all genres and reflect literature of historical and contemporary cultures around the globe. Taken in conjunction with Honors History (HHI 22) and Honors Philosophy (HHP 22). Satisfies the English and WAC requirements for graduation.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HHE 100 - 192 Honors Advanced Elective Seminar

An interdisciplinary seminar that engages students in explorations of unique topics proposed by faculty from departments and programs across the university and occasionally from members of the professional world. Seminar topics are first reviewed and approved by members of the University Honors Program and the Honors Advisory Board. Faculty teaching Honors Advanced Elective Seminars are encouraged to integrate experimental and non-traditional pedagogies into their courses, including field trips, workshops, and student organized exercises. Topics change each semester.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Semester

HHE 195 Honors Independent Study

A student-initiated research project undertaken in conjunction with a faculty mentor. Students must submit a written proposal outlining the project objectives, a bibliography, and a clear statement of how the student will be evaluated. The proposal requires approval by the faculty mentor and the Director of Honors.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HHE 196 Honors Independent Study

A student-initiated research project undertaken in conjunction with a faculty mentor. Students must submit a written proposal outlining the project objectives, a bibliography, and a clear statement of how the student will be evaluated. The proposal requires approval by the faculty mentor and the Director of Honors.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HHE 197 Honors Independent Study

A student-initiated research project undertaken in conjunction with a faculty mentor. Students must submit a written proposal outlining the project objectives, a bibliography, and a clear statement of how the student will be evaluated. The proposal requires approval by the faculty mentor and the Director of Honors. HHE 197 and 198 are designated for students who have already completed one Honors Independent Study, either HHE 195 or HHE 196.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HHE 198 Honors Independent Study

A student-initiated research project undertaken in conjunction with a faculty mentor. Students must submit a written proposal outlining the project objectives, a bibliography, and a clear statement of

how the student will be evaluated. The proposal requires approval by the faculty mentor and the Director of Honors. HHE 197 and 198 are designated for students who have already completed one Honors Independent Study, either HHE 195 or HHE 196.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HHE 201 University Honors Special Project

A research project tied specifically to a conference, to presentation of the student's work at a conference, to independent research developed from work initiated in an Honors Advanced Elective Seminar, or to research developed from an Honors travel course. Honors special projects must be approved and closely supervised by a faculty member. Requires the approval of the faculty mentor and the Director of Honors.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 1 to 3
On Occasion

HHE 300 Honors Travel Seminar

The University Honors Travel Seminar is designed to engage students in travel-based and site-specific learning. Typically the itinerary will involve preparatory readings, small-group work, and self-guided exploration of sites relevant to the seminar topic. Students can expect to meet before and after the travel component for an organizational meeting and a final presentation. Topics for the Travel Seminar vary but all seminars include cross-disciplinary methodologies and experiential learning. Honors Travel Seminars are offered during spring break. HHE 300 credit counts toward fulfilling the program's Honors Advanced Elective requirements and can be taken for repeat credit.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 1
Every Spring

HHI 21 Perspectives on Human History

A study of political, economic and social trends in world history aimed at discovering the nature of historical fact. Taken in conjunction with Honors Literature (HEG 21) and Honors Philosophy (HHP 21). Satisfies the History and WAC requirements for graduation.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HHI 22 Perspectives on Human History

A study of political, economic and social trends in world history aimed at discovering the nature of historical fact. Taken in conjunction with Honors Literature (HEG 22) and Honors Philosophy (HHP 22). Satisfies the History and WAC requirements for graduation.

Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HHP 21 Philosophy of Human Values in Perspective

An introduction to classic texts and problems in the history of philosophy as well as an exploration of the leading traditions of ethical and social thought from the ancient to the early modern world. This course encourages students to reflect on their own values in light of major ethical traditions and in relation to contemporary social issues. Taken in conjunction with Honors Literature (HEG 21) and Honors History (HHI 21). Satisfies the Philosophy and WAC requirements for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HHP 22 Philosophy of Human Values in Perspective

An introduction to classic texts and problems in the history of philosophy as well as an exploration of the leading traditions of ethical and social thought from the early modern world to the present. This course encourages students to reflect on their own values in light of major ethical traditions and in relation to contemporary social issues. Taken in conjunction with Honors Literature (HEG 22) and Honors History (HHI 22). Satisfies the Philosophy and WAC requirements for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HLS 21 Honors Spanish

An introductory speaking, reading, and understanding Spanish course that places a major emphasis on learning Spanish as it is spoken within its cultural context. It is designed to raise the verbal competency of students with little or no prior exposure to the language through the use of Spanish multi-media and exposure to Spanish language oriented cultural and artistic events in New York City. Satisfies the language requirement for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HLS 22 Honors Spanish

An introductory speaking, reading, and understanding Spanish course that places a major emphasis on learning Spanish as it is spoken within its cultural context. It is designed to raise the verbal competency of students with little or no prior exposure to the language through the use of Spanish multi-media and exposure to Spanish language oriented cultural and artistic events in New York City. Satisfies the language requirement

for graduation.
The pre-requisite of HLS 21 or SPA 11 is required and the student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HPS 21 Honors Psychology

An introduction to the discipline of psychology that explores its major currents of thought, with special investigations into the area of cognitive development. Classes are conducted as seminars, emphasizing active learning and the application of theory to problems. May be used as a prerequisite for advanced courses in psychology.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall and Spring

HSM 25 University Honors Seminar

Taken in conjunction with Honors Literature (HEG 21), History (HHI 21), and Philosophy (HHP 21). Hours are arranged each semester as part of the requirement for this course cluster. Pass/Fail only.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 0
Every Fall

HSM 26 University Honors Seminar

Taken in conjunction with Honors Literature (HEG 22), History (HHI 22), and Philosophy (HHP 22). Hours are arranged each semester as part of the requirement for this course cluster. Pass/Fail only.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 0
Every Spring

HSM 109 Experiential Methods Seminar

An exploration of themes that lend themselves to investigation from a variety of viewpoints. Although the content of this experiential course varies from year to year, primary research and field-based learning are constants. Satisfies advanced distribution in either Humanities or Social Science.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HSM 110 Experiential Methods Seminar

An exploration of themes that lend themselves to investigation from a variety of viewpoints. Although the content of this experiential course varies from year to year, primary research and field-based learning are constants. Satisfies advanced distribution in either Humanities or Social Science.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HSP 21 Political Rhetoric Seminar

An exploration of effective oral communication, with emphasis on the analysis of classical and contemporary modes of political rhetoric. Students study oral communication through a variety of media, including written speeches, television, advertising, film and the Internet. Student presentations are an integral part of this course. Satisfies the speech requirement for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall and Spring

HSP 22 Theatre as Social Ritual

An exploration of effective oral communication, with emphasis on the social role of theatre and spectacle, from primitive to modern cultures. Student presentations and reliance on live productions are important elements of this course. Satisfies the speech requirement for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

HSS 21 Civilization and Social Institutions

An introduction to social science. HSS 21 combines disciplinary approaches from the various social sciences (e.g., Anthropology, Economics, Sociology, Political Science) to provide students with an understanding of social science methodology, including the use of surveys, statistical models, and comparative/ cross-cultural analysis. Satisfies social science requirement for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Fall

HSS 22 Civilization and Social Institutions

An introduction to social science. HSS 22 introduces students to the major economic, political, historical, and social influences that have shaped American culture with the aim of defining problems and methods in the social sciences. Satisfies social science requirement for graduation.
Student must be part of the Brooklyn Honors Student Group in order to register for the course.
Credits: 3
Every Spring

CORE SEMINAR COURSE

COS 50 Idea Of The Human

The Idea of the Human: This interdisciplinary seminar provides a common intellectual experience with writing intensive dimensions. COS 50 explores ideas of the human and the human condition. Emphasis is on inquiry and analysis. Questions dealt with concern what we believe makes us human; how we perceive ourselves, others and the world around us; the role of creativity in human development; and the importance of social context in considering all of these. Sections are organized into clusters of two to four per cohort that meet together in a combined workshop at least once a month. These cohorts explore off-campus sites in small working teams. Fieldtrips expand the scientific, social science, philosophical and literary readings that frame experiential inquiry. Satisfies core requirements, is one of two WAC courses outside the major required for graduation, and culminates in a research paper. Ideally COS 50 should be taken during a student's upper freshman/lower sophomore year.

The pre-requisite of ENG 16 or ENG 16X is required.

Credits: 3

Every Semester

DEVELOPMENT SKILLS COURSES

DSM 01 Developmental Skills Mathematics 01

An intensive background course designed for students with little or no mathematics background. Fundamental arithmetic operations, percentages, discounts, etc are taught. Regular workshops supplement classroom lectures and discussions. Departmental final examination. Four classroom hours per week, two one-hour (lab) workshops per week. Letter grades and U. None-credit. This course has an additional fee.

Credits: 0

Every Semester

DSM 09 Developmental Skills Mathematics 09

An overview of arithmetic and algebraic operations, systems of equations, inequalities and sets. Four classroom hours per week, two one-hour (lab) workshops per week. Letter grades and U. This course has an additional fee.

The pre-requisite of DSM 01 is required or the placement exam.

Credits: 0

Every Semester

COOPERATIVE EDUCATION COURSES

COOP 1 Career Readiness

The main objective of Coop 1 is to empower students to begin the process of developing their career. In this class, students learn and practice the various elements needed to be successful in any profession. The curriculum includes self-assessments, career research, job-search strategies, resume writing, interview skills and professionalism. Open to upper-Freshmen through upper-Senior. *The pre-requisites of OS 1 and ENG 16 or the equivalents are required, or permission of the Director.*

Credits: 1

Every Fall, Spring and Summer

COOP 2 Professional Development

An integrative seminar that introduces students who are in or have completed an internship or fieldwork experience to 21st century workplace culture, dynamics and issues, and provides them with an analytical framework within which to relate the practical world of professional work to the theoretical world of academic learning. Students in all majors and in all kinds of field placements join in the cross-disciplinary exploration of experience-enriched education. This course is a prerequisite for advanced field placements.

Credits: 3

Cross-Listings: COOP 2, SOC 1

Every Fall, Spring and Summer

COOP 1C Career Readiness

COOP 1C is a specially designated COOP 1 class designed for LIU Brooklyn Learning Community participants. In this class, students learn and practice the various elements needed to be successful in any profession. The curriculum includes self-assessments, career research, job-search strategies, resume writing, interview skills and professionalism. Open to upper-Freshmen through upper-Senior. Prerequisite: Orientation Seminar 1C, ENG 16 or the equivalent, or permission of the Director. One credit.

The pre-requisites of OS 1 and ENG 16 or the equivalents are required, or permission of the Director.

Credits: 1

Every Spring

COOP 99 Field Placement

Placement of students in cooperative education or internship positions related to their academic major or career to enable students to integrate classroom learning with practical job experience.

Opportunities are offered, in business, government, service and cultural organizations. May be repeated in subsequent semesters. Pass/Fail only. Non-credit. Prerequisite: COOP 1 or permission of the Assistant Dean of Career Services; Open only to sophomores, juniors and seniors.

Credits: 0

Every Fall, Spring and Summer

ORIENTATION SEMINAR COURSES

OS 1 The University: Discovery and Change

All incoming freshman are programmed for Orientation Seminar 1, an interactive and informative course that is designed to provide students with the foundation necessary to thrive in their academic ventures. Meeting twice a week for 50 minutes, students engage in lively workshops that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. Extending beyond the classroom setting, OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. Pass/Fail only.

Credits: 1

Every Fall and Spring

OS 1C The University: Discovery and Change

OS 1C is a specially designated OS 1 class designed for LIU Brooklyn Learning Community participants. All incoming freshman are programmed for Orientation Seminar 1, an interactive and informative course that is designed to provide students with the foundation necessary to thrive in their academic ventures. Meeting twice a week for 50 minutes, students engage in lively workshops that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. Extending beyond the classroom setting, OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. Required of all freshman students participating in the Learning Communities program. Pass/Fail only.

Credits: 1

Every Fall and Spring

OS 1G University-Disc/Chng

OS 1G is a specially designated OS 1 class designed for the Plan for Academic Success students. All incoming freshman are programmed for Orientation Seminar 1, an interactive and informative course that is designed to provide students with the foundation necessary to thrive in their academic ventures. Meeting twice a week for 50 minutes, students engage in lively workshops that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. Extending beyond the classroom setting, OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. Required of all freshman students in the Plan for Academic Success program. Pass/Fail only.

Credits: 1

Every Fall and Spring

OS 1H University-Disc/Chng

OS 1H is a specially designated OS 1 class designed for students in the Gateway to Honors Program. The Honors Orientation Seminar 1 is an interactive and informative course that is designed to provide students with the foundation necessary to thrive in

their academic ventures. Gateway students meet once a week to engage in workshops, field trips, and collaborative projects that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. First-year students enrolled in the Honors Sequence are not required to take OS 1. Pass/Fail only.

Credits: 1

Every Fall

OS 1S University-Disc/Chng

OS 1S is a specially designated OS 1 class designed for NCAA Division 1 student-athletes. All incoming freshman are programmed for Orientation Seminar 1, an interactive and informative course that is designed to provide students with the foundation necessary to thrive in their academic ventures. Meeting twice a week for 50 minutes, students engage in lively workshops that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. Extending beyond the classroom setting, OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. Pass/Fail only.

Credits: 1

Every Fall and Spring

OS 1T The University: Discovery and Change

OS 1T is a specially designated OS 1 class designed for transfer students with fewer than 30 credits. All incoming freshman are programmed for Orientation Seminar 1, an interactive and informative course that is designed to provide students with the foundation necessary to thrive in their academic ventures. Meeting twice a week for 50 minutes, students engage in lively workshops that help develop the academic, professional and life skills necessary for success in their first year at LIU Brooklyn. Extending beyond the classroom setting, OS 1 instructors serve as personal guides and mentors for students throughout their entire first year of college. Required for transfer students with fewer than 30 credits. Pass/Fail only.

Credits: 1

Every Fall and Spring

SCHOOL OF BUSINESS, PUBLIC ADMINISTRATION AND INFORMATION SCIENCES

The School of Business, Public Administration and Information Sciences at LIU Brooklyn prepares students for professional careers in business and government. In addition to excellence in teaching, the depth and variety of academic study options and professional enrichment offerings combine to create a dynamic learning environment that provides students with the stimulation, networking opportunities, diversity and inspiration required for true academic success and professional development. Students are engaged and challenged by an internationally recognized faculty. Small classroom environments allow students to better gain knowledge, skills and values in their study areas, as well as to develop the ability to evaluate current and emerging global issues and opportunities. Students' experiential learning includes multidisciplinary teamwork, case studies and consulting projects, all of which have helped our students gain national recognition and placement in top firms and government agencies.

The School of Business, Public Administration and Information Sciences offers the degrees of Associate in Applied Science in Business Administration; Bachelor of Science in Accounting, Computer Science, Entrepreneurship, Finance, Management, Marketing and Technology Management; accelerated Bachelor of Science/Master of Science in Accounting; Master of Business Administration (M.B.A.) with concentrations in Entrepreneurship, Finance, Management, International Business, Management Information Systems, Human Resource Management, and Marketing; Master of Business Administration in Accounting (M.B.A. Accounting); Master of Science in Accounting; Master of Science in Human Resource Management; Master of Science in Taxation; Master of Science in Computer Science; Master of Public Administration (M.P.A.) with tracks in Public Administration and Health Administration; and Advanced Certificates in Human Resource Management, Gerontology Administration and Nonprofit Management; and a collaborative program leading to the United Nations Advanced Certificate and Master of Public Administration.

Undergraduate programs in the School of Business, Public Administration and Information Sciences lead to the Bachelor of Science and the Associate in Applied Science. The accelerated Bachelor of Science/Master of Science leads to the Master of Science Degree. The School consists of four academic units, of which three offer undergraduate and dual degrees: Department of Finance, Law, Accounting, and Taxation; Department of Technology, Innovation, and Computer Science; and Department of Managerial Sciences. These departments offer minors which are available to the School of Business students and LIU Brooklyn students. Students may choose one of the following minors: Accounting, Business, Computer Science, Entrepreneurship, Fashion Merchandising, Finance, Health Care Management, Human Resource Management, Management, Marketing, Sport Management and Technology.

The School consists of four academic units which offer graduate degrees: Department of Finance, Law, Accounting, and Taxation; Department of Technology, Innovation, and Computer Science; Department of Managerial Sciences; and Public Administration.

For information, please contact the Dean's Office at 718-488-1130, fax 718-488-1125, email us at business@brooklyn.liu.edu, or visit the website at www.liu.edu/brooklyn/business.

Ken Colwell

Dean

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Assistant Dean

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Mission Statement

The School of Business, Public Administration, and Information Sciences at LIU Brooklyn is dedicated to advancing scholarship and preparing our diverse student population to meet the challenges of their future. Located in the heart of Brooklyn, New York, we have been both tightly connected to and reflective of our community for almost 100 years, embracing LIU's overarching mission of *access* and *excellence*.

Our mission is to provide a transformational educational experience for our students based on the following principles:

- Our programs are *relevant*. Our faculty maintains close ties to practice and are continually updating their skills to keep up with our students' needs. Our courses apply theory to practice and provide a wide variety of experiential learning opportunities.
- We teach our students to be *entrepreneurial*- they learn to create value in society through creativity and innovation.
- We believe in *ethical* professional practices and are committed to public and community service.
- We believe that all students have *value*. We foster close ties between faculty and students through small class sizes and faculty availability.

By following these principles, we produce graduates with:

- Marketable skills that lead to successful job placement and productive careers.
- Critical thinking and problem solving abilities that make them into lifelong learners.
- A commitment to ethics and civic responsibility that makes them solid global citizens.

Vision

In order to execute on our mission, we aspire to the following:

- We will be a *school of choice*- our culture, faculty and programs will differentiate us from our competition so that students make a deliberate choice to enroll here.
- We will act *entrepreneurially* to constantly re-evaluate our programs and curricula and seek opportunities to grow our enrollment and improve our brand.
- We will be *innovative* and *creative* in order to design programs and pedagogy that are unique, relevant, and cutting edge.
- We will teach our students to use the *technology* that they will need to succeed in today's workplace.
- We will *enhance traditional modes of course delivery* with modern tools and techniques to improve meaning and effectiveness for our students.

Academic Policies

Probation/Unsatisfactory Grades

Students are expected to maintain at least a 2.00 cumulative grade-point average in any of the undergraduate programs of the School. Students enrolled in the Bachelor of Science/Master of Science are expected to maintain a minimum of 3.0 cumulative grade-point average. Students who do not maintain this standard will be placed on probation. The Academic Standing Committee will make a recommendation to the Dean concerning the student's potential to successfully complete the program. The Dean will make the final disposition of the case.

Plagiarism

Plagiarism is a practice that is not only unacceptable, but which is to be condemned in the strongest terms possible on the basis of moral, educational and legal grounds. Under University policy, plagiarism may be punishable by a range of penalties up to and including failure in an individual course and/or expulsion from the School of Business, Public Administration and Information Sciences and the University.

Application for Degree

A candidate for graduation is expected to file a degree application well in advance of Commencement and to notify the Registrar of his or her expected date of graduation by the deadline specified in the Academic Calendar.

Academic Advisement and Career Counseling

The School of Business, Public Administration, and Information Sciences provides professional academic advisement and career counseling to assist all students in academic planning and career preparation for all programs of the School. The School of Business, Public Administration and Information Sciences Advisement Office can be reached by phone at 718-488-1121 or e-mail at joan.pierre@liu.edu. The advisers are located in the Humanities Building 700.

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DEPARTMENT OF FINANCE, LAW, ACCOUNTING AND TAXATION

Associate Professor Scerbinski(Acting Chair)
Professor Fischman
Assistant Professor Morgan-Thomas
Adjunct Faculty: 11

Accountants provide financial information for evaluating the present and planned activities of companies and organizations. Accounting prepares those planning a career in business with a solid, yet versatile professional background. The field offers employment opportunities in a wide variety of areas. Every company, regardless of its size or structure, has an accounting function and employs the services of certified public accountants, auditors, tax advisors, financial managers and consultants. According to the U.S. Department of Labor's Bureau of Labor Statistics, accounting jobs are expected to grow nearly 22% by 2018.

Accountants evaluate past performances of companies and make recommendations for improved performance. It's the accountant's responsibility to devise effective cost-cutting strategies aimed at improving an organization's overall performance. They are essential to the effective operations of businesses, government agencies and non-profit organizations.

The Department of Finance, Law, Accounting, and Taxation offers three degrees. One is a four-year Bachelor of Science in Accounting for students planning on careers in banking, government, industry, or public accounting. The second degree is the five-year combined Bachelor of Science/Master of Science program designed to prepare students for current and future requirements for CPA licensure. The third degree is a B.S. in Finance which provides students with the framework for financial decision making by individuals, small business firms, financial institutions and large corporation. In addition, the department offers minors in Accounting and Finance.

B.S. in Accounting

The B.S. in Accounting prepares students for acceptance into various master's programs and for employment in either the public, private, government or not-for-profit sectors in addition to entry-level positions in business, financial and accounting firms. Students learn essential skills in financial and managerial accounting, taxation and auditing. The curriculum provides a systems approach to prepare students to be technically competent, alert to ethical issues and able to adapt to changes in technology, regulation and globalization.

B.S., Accounting

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language not required

Social Sciences

History 6 credits

Economics 6 credits

Science and Mathematics

Mathematics 3 credits

Science 10 credits

(BIO 22, CHM 21 & PHY 20)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts not required

Liberal Arts Elective Requirements:

Introductory Arts & Sciences Electives (1) 6 credits

Advanced Arts & Sciences Electives (2) 9 credits

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered By Conolly College

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required:

Courses numbered above 100 offered by Conolly College and numbered above 202 by the School of Business, Public Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business Courses Numbered 111, 112, 201, 202 Do Not Satisfy This Requirement.

Business Core: 33 credits

The following eleven (11) courses are required:

ACC 111 Principles of Accounting I 3.00

ACC 112 Principles of Accounting II 3.00

BUS 229 Research Methods in Business 3.00

FIN 201 Financial Markets and Institutions 3.00

FIN 202 Introduction to Corporate Finance 3.00

LAW 211 Introduction to Law and Legal Reasoning 3.00

LAW 212 The Legal Environment of Business 3.00

MAN 201 Principles of Management 3.00

MAN 231 Managerial Communications 3.00

MKT 201 The Fundamentals of Marketing 3.00

QAS 228 Business Statistics I 3.00

Computer Science Core: 3 Credits

CS 9B Spreadsheets 1.00

CS 9E Advanced Word Processing 1.00

CS 9K Advanced Spreadsheets 1.00

OR

CS 101 Fundamentals of Computer Science and Information Sciences 3.00

Major Requirements

Must complete all courses listed below.

ACC 221 Intermediate Accounting I 3.00

ACC 222 Intermediate Accounting II 3.00

ACC 329 Accounting Information Systems 3.00

ACC 331 Management Accounting 3.00

ACC 338 Advanced Accounting 3.00

ACC 442 Auditing 3.00

ACC 445 Federal Income Tax 3.00

ACC 454 Contemporary Topics in Accounting 3.00

FIN 315 Financial Statement Analysis 3.00

Advanced Business Elective Requirement: 3 Credits

Any Course Offered by the School of Business numbered over 212 or is not part of the Business Core requirement

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 65 credits

Minimum Total Major Credits: 63 credits

Minimum Advanced Credit Requirement: 48 credits (see above for details)

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S./M.S. in Accounting

The B.S. /M.S. in Accounting degree expands the undergraduate's accounting knowledge through graduate coursework emphasizing practical application of accounting theory in the

complexities of today's international economic environment. This program meets the 150-hour Certified Public Accountant licensing requirements in New York State as well as in other states.

B.S. / M.S., Accounting

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language not required

Social Sciences

History 6 credits

Economics 6 credits

Science and Mathematics

Mathematics 3 credits

Science 10 credits

(BIO 22, CHM 21 & PHY 20)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts not required

Liberal Arts Elective Requirements:

Introductory Arts & Sciences Electives (1) 7 credits

(1) Any Introductory or Advanced Course offered by Conolly College

Business Core: 30 credits

The following ten (10) courses are required:

ACC 111 Principles of Accounting I 3.00

ACC 112 Principles of Accounting II 3.00

FIN 201 Financial Markets and Institutions 3.00

FIN 202 Introduction to Corporate Finance 3.00

LAW 211 Introduction to Law and Legal Reasoning 3.00

LAW 212 The Legal Environment of Business 3.00

MAN 201 Principles of Management 3.00

MAN 231 Managerial Communications 3.00

MKT 201 The Fundamentals of Marketing 3.00

QAS 228 Business Statistics I 3.00

Computer Science Core: 3 Credits

CS	9B	Spreadsheets	1.00
CS	9E	Advanced Word Processing	1.00
CS	9K	Advanced Spreadsheets	1.00
OR			
CS	101	Fundamentals of Computer Science and Information Sciences	3.00

Major Requirements

Accounting, Finance, and Taxation Requirements: 48 Credits

Must complete all 16 courses listed below:

ACC	221	Intermediate Accounting I	3.00
ACC	222	Intermediate Accounting II	3.00
ACC	329	Accounting Information Systems	3.00
ACC	331	Management Accounting	3.00
ACC	338	Advanced Accounting	3.00
ACC	442	Auditing	3.00
ACC	454	Contemporary Topics in Accounting	3.00
ACC	712	Accounting Information Systems	3.00
ACC	720	Not-for-Profit/Government Accounting	3.00
ACC	742	Financial Statement Analysis	3.00
ACC	752	Advanced Auditing	3.00
ACC	765	Accounting and Reporting I	3.00
ACC	766	Accounting and Reporting II	3.00
FIN	315	Analysis of Financial Statements	3.00
TAX	716	Federal Income Tax Principles	3.00
TAX	722	Corporate Taxation	3.00

Additional Required Graduate Courses: 15 Credits

ACC		Any Advanced Business Course	3.00
ECO		Graduate Economics Course	3.00
ACC		Any 700 level Advanced Accounting or Taxation Course	9.00

Credit and G.P.A. Requirements

Minimum Total Credits: 150 credits
 Minimum Total Liberal Arts and Sciences Credits: 60 credits

Minimum Total Major Credits: 90 credits

Minimum Major G.P.A.: 3.0
 Minimum Cumulative G.P.A.: 3.0

B.S. in Business Finance

Finance is a powerful and influential field that can be defined as the art and science of managing money. Virtually all individuals and organizations earn or raise money and spend or invest money. Finance is concerned with the process institutions, markets and instruments involved in the transfer of money among and between individuals, businesses and governments. The study of finance provides a consistent framework for financial decision-making by individuals, small business firms, financial institutions and large corporations. It is an essential business function and all business students should have at least an exposure to the issues.

The B.S. in Business Finance provides students with a broad-based understanding of the principles that govern financial institutions and markets, and the strategies they employ to maximize investor returns while minimizing risk. The program develops students' professional competencies as financial executives and prepares them for careers in corporate finance, investment banking, international finance security, analysis brokerage and securities trading, and portfolio management.

B.S., Business Finance

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	not required
Social Sciences	
History	6 credits
Economics	6 credits
Science and Mathematics	
Mathematics	3 credits
Sciences (BIO 22, CHEM 21, & PHY 20)	10 credits
Communication, Visual & Performing Arts	
Speech	3 credits
Visual & Performing Arts	not required

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required: Courses numbered above 100 offered by Conolly College of Liberal Arts & Sciences and numbered above 202 by the School of Business, Public

Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business courses numbered 101, 101 or 201, 202 do not satisfy this requirement.

Advanced Economics Requirement: 6 Credits

ECO	118	Modern Economic Thinkers	3.00
ECO	125	International Economics	3.00
ECO	129	Problems of the Modern American Economy	3.00
ECO	132	Comparative Economic Systems	3.00
ECO	133	Public Finance and Fiscal Policy	3.00

Business Core Requirements

The following eleven (11) courses are required:

ACC	110	Accounting for Business Majors	3.00
BUS	101	Introduction to Business	3.00
BUS	110	Foundations of Business Information Systems	3.00
BUS	229	Research Methods in Business	3.00
FIN	201	Financial Markets and Institutions	3.00
FIN	202	Introduction to Corporate Finance	3.00
LAW	201	Introduction to Law and Legal Reasoning	3.00
MAN	201	Principles of Management	3.00
MAN	231	Managerial Communications	3.00
MKT	201	The Fundamentals of Marketing	3.00
QAS	228	Business Statistics I	3.00

Major Requirements:

Finance Specialization Requirement: 15 Credits

FIN	315	Analysis of Financial Statements	3.00
FIN	325	Financial Strategies in an Uncertain Economy	3.00
FIN	450	Seminar: Current Topics in Finance	3.00

Any two (2) Advanced Finance 400 level Finance Courses

Advanced Business Electives: 12 Credits

Four (4) Advanced Business Courses Numbered Over 202

Capstone Experience: 3 Credits

BUS	401	Business Policy	3.00
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Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits:

65 credits

Minimum Total Major Credits: 63 credits

Minimum Advanced Credit Requirement: 48 credits (see above for details)

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Accounting

The Accounting Minor is designed to provide students with an extended background in accounting to complement their major.

Accounting, at the core of all business, is critical for any other field in business as well as of interest to students from various disciplines leading to positions in government, not for profits, and corporations.

The Accounting Minor requires the following 15 credits:

ACC	111	Principles of Accounting I	3.00
ACC	112	Principles of Accounting II	3.00
ACC	221	Intermediate Accounting I	3.00
ACC	329	Accounting Information Systems	3.00
ACC	331	Management Accounting	3.00

Minor in Finance

The Finance Minor is designed to provide students with a solid knowledge of financial markets, financial concepts, statement analysis and techniques of financial management. Many of the finance courses require a background in accounting and quantitative analysis. Some courses have prerequisites not included in the minor. Consult the course descriptions to determine the prerequisites.

The Finance Minor requires the following 15 credits:

FIN	201	Financial Markets and Institutions	3.00
FIN	202	Introduction to Corporate Finance	3.00
FIN	315	Analysis of Financial Statements	3.00
FIN	325	Financial Strategies in an Uncertain Economy	3.00

One (1) Advanced Finance Course numbered over 202.

Credit and G.P.A. Requirements

Minimum Total Credits: 15 credits

Minimum Minor G.P.A.: 2.0

Accounting Courses

ACC 110 Accounting for Business Majors

This course is a survey of financial and managerial accounting for majors other than Accounting. The course includes an overview of accounting responsibilities of the manager, including budgeting, and decision-making. In addition, the course covers, accounting procedures, preparation and the interpretation of financial statements and the need and procedures for internal controls.

The pre-requisites of BUS 101 and 110 are required.

Credits: 3

Every Fall and Spring

ACC 111 Principles of Accounting I

An introduction to the fundamental principles and theory of the accounting applied to business organizations. Topics covered during the semester include the balance sheet, income statement, and the principles required to understand financial accounting information. Consideration is given to the recording process, income determination, and the effect of accounting concepts on financial statements.

Credits: 3

Every Fall and Spring

ACC 111W Principles of Accounting-Lab

The workshop reinforces the accounting principles, theories and applications, covered in Accounting 111. In addition, the lab/workshop is meant to help students with reading comprehension in the accounting field, critical thinking, problem solving, and to promote team work through guided studies. It is a Pass/Fail workshop. Special Fee: \$125.00.

Credits: 0

Every Fall and Spring

ACC 112 Principles of Accounting II

The second course on accounting fundamentals. Building upon Accounting 111, the course covers additional topics in financial statement development and how cost relationships affect management planning and supervising. Case analysis is utilized to provide a solid foundation in the principles of accounting.

The pre-requisite of ACC 111 is required.

Credits: 3

Every Fall and Spring

ACC 112W Principles of Accounting-Lab

The workshop reinforces the accounting principles, theories and applications, covered in Accounting 112. In addition, the lab/workshop is meant to help students with reading comprehension in the accounting field, critical thinking, problem solving, and to promote team work through guided studies. It is a Pass/Fail workshop. Special fee: \$125.00.

Credits: 0

Every Fall and Spring

ACC 120 Not-for-Profit/ Governmental Accounting

A study of budgeting, planning and reporting for nonprofit organizations, government agencies, hospitals and educational institutions. Fund accounting principles are covered.

The pre-requisites of ACC 111 and 112 are required.

Credits: 3

On Occasion

ACC 193 Independent Study

For those students in the last semester of their senior year who require one to three credits to meet minimum requirements for graduation. Students must complete an Application for Independent Study to be approved by the Department Chair and the Dean. Students are assigned to a faculty member who supervises the Independent Study course or project. Student may be required to write a research paper in addition to all other course requirements.

Credits: 3

On Demand

ACC 195 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, a student must have upper junior or senior status; 12 credits in one of the majors of the School of Business, Public Administration and Information Sciences; a cumulative quality-point ratio of 3.0 and a 3.25 ratio in the major subject; the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be undertaken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

ACC 196 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, a student must have upper junior or senior status; 12 credits in one of the majors of the School of Business, Public Administration and Information Sciences; a cumulative quality-point ratio of 3.0 and a 3.25 ratio in the major subject; the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be undertaken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

ACC 221 Intermediate Accounting I

An in-depth study of concepts of financial accounting and income determination; analysis of current accounting theory.

The pre-requisites of ACC 111 and 112 are required.

Credits: 3

Every Fall and Spring

ACC 222 Intermediate Accounting II

The course continues Accounting 221 and includes topics such as stockholder equity, retained earnings, earnings per share, stock options, revenue recognition, accounting changes and error analysis, statement of cash flows and full disclosure in financial reporting.

The pre-requisites of ACC 221 and FIN 201 are required.

Credits: 3

Every Fall and Spring

ACC 329 Accounting Information Systems

A study of the principles of computerized accounting, databases, and the way information flows through accounting systems. This course develops an understanding of accounting information, information technology, operational support and internal control.

The pre-requisites of ACC 111 and 112 are required.

Credits: 3

Every Fall and Spring

ACC 331 Management Accounting

A study of the principles of cost accounting in relation to managerial usage. Job order cost systems are developed, and direct costing, relevant costing, profit planning and budgeting are considered. Students will learn to relate these topics to real world businesses.

The pre-requisite of ACC 222 is required or permission from the Chairperson of the Department.

Credits: 3

Every Fall

ACC 338 Advanced Accounting

A study of consolidated financial statements, international accounting, partnerships, governmental accounting, bankruptcy, and other advanced topics.

The pre-requisite of ACC 222 is required.

Credits: 3

Every Fall and Spring

ACC 442 Auditing

This course provides an introduction to auditing, including basic concepts, techniques, and audit applications. The course covers a review of standards and procedures currently used by independent public accountants in examining financial statements and their applications in report preparation. The ethical concepts and requirements of the profession are reviewed together with an overview of the legal responsibilities of audit

professionals.

The pre-requisites of ACC 221, 222, 329, 331 and 338 are all required.

Credits: 3

Every Fall and Spring

ACC 445 Federal Income Tax

This course is an introduction to basic federal tax. The application of federal requirements to individual tax returns is considered. The study of tax law will cover topics concerning income recognition, exclusions, property transactions, including capital gains and losses, and tax computations.

The pre-requisites of ACC 331 and 338 are required.

Credits: 3

Every Fall and Spring

ACC 454 Contemporary Topics in Accounting

A study of ethics, regulation, emerging issues and other topics relevant to contemporary accounting.

The pre-requisites of ACC 331 and 338 are required.

Credits: 3

Alternate Semesters

Finance Courses

FIN 193 Independent Study

For those students in the last semester of their senior year who require one to three credits to meet minimum requirements for graduation. Students must complete an Application for Independent Study to be approved by the Department Chair and the Dean. Students are assigned to a faculty member who supervises the Independent Study course or project. Students may be required to write a research paper in addition to all other course requirements.

Credits: 3

On Demand

FIN 195 Honors Study

Honors Study is designed to give out-standing students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of business, Public Administration and Information Sciences, a cumulative quality-point ration of 3.00 and a 3.25 ration in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be undertaken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

FIN 196 Honors Study

Honors Study is designed to give out-standing students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of business, Public Administration and Information Sciences, a cumulative quality-point ration of 3.00 and a 3.25 ration in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be undertaken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

FIN 197 Internship Study

For Sophomore-Senior student in good academic standing who has taken the introductory course in the discipline and at least 6 additional credits of advanced coursework in the discipline. Student's internship must be approved by the department. Students are assigned to a faculty member who supervises the Internship Study course or project. Students may be required to write a research paper or complete a project in addition to all other course requirements.

The pre-requisites of FIN 101, FIN 102 and two advanced Finance courses are required.

Credits: 1 to 3

On Demand

FIN 201 Financial Markets and Institutions

This course is designed to familiarize students with the U.S. financial system -its financial institutions, financial markets, and financial instruments and its relationship to the aggregate economy with which the manager must interact when making financial or investment decisions on behalf of companies, nonprofit institutions, government agencies or individuals.

Of the following sets of pre-requisites only one (1) is required: ACC 111, MTH 16, and MTH 30 or 40; OR BUS 101, BUS 110, MTH 16, and MTH 30 or 40.

Credits: 3

Every Fall, Spring and Summer

FIN 202 Introduction to Corporate Finance

This course is designed to familiarize students with the theory of value and financial decision making in the firm relating to financial analysis and planning, working capital management, investing in fixed assets, and the long-term financing of assets - concepts that apply to any type of company or nonprofit institution.

The pre-requisite of FIN 201 is required.

Credits: 3

Every Fall, Spring and Summer

FIN 315 Analysis of Financial Statements

Balance sheets and income reports are analyzed

individually and comparatively for their value to owners, managers, investors and creditors.

Determination of standard ratios and variations in earnings. Each student prepares an analysis of actual reports issued to the public.

The pre-requisite of ACC 110 or 111 is required; and the pre-requisite of FIN 202 is also required.

Credits: 3

Every Fall and Spring

FIN 325 Financial Strategies in an Uncertain Economy

This course examines the problems of making major financial decisions in a dynamic, uncertain environment. External variables from financial markets, real goods markets, labor markets, and international markets, as well as fiscal policy implementation and monetary policy implementation are identified. The problems of monitoring and forecasting those variables are considered. Decision making is practiced.

The pre-requisites of FIN 202 and QAS 128 are required.

Credits: 3

Every Fall

FIN 403 Security Analysis

Qualitative and quantitative techniques used in evaluating securities, as well as practical tests of investment theories. Emphasis is placed on the special problems encountered in analyzing industrial, railroad, public utility, bank and insurance company issues, stressing economic as well as financial considerations.

The pre-requisites of FIN 202 and QAS 228 are required.

Credits: 3

Every Fall

FIN 404 Portfolio Management

Considers the most efficient methods of meeting the investment objectives of investors, both for individuals and for institutions. Portfolio patterns are analyzed and appraised in terms of those objectives, economic changes, interest rate movements, tax and legal considerations.

The pre-requisites of FIN 201, FIN 202 and BUS 229 are required.

Credits: 3

Every Spring

FIN 405 Corporate Financial Policies

A study of the cost of liquidity of an individual corporate enterprise. Problems are centered around capital budgeting, structure of capital, cost of capital, and mergers, acquisitions and corporate reorganization.

The pre-requisites of FIN 202 and QAS 228 or MTH 100 are required.

Credits: 3

Every Fall

FIN 407 Financial Management of Banks

A study of asset management, liability management, liquidity management, futures hedging, credit

analysis and loan portfolio management, investment portfolio management, capital funds management, real estate appraisal, trust services and bank client services, including IRA and Keogh planning.

The pre-requisite of FIN 325 is required.

Credits: 3

On Occasion

FIN 409 International Finance

Analysis of the balance of payments and the International Monetary System. Includes the role of reserves in international payments, the adequacy of international liquidity, a study of the proposed international monetary arrangements, and the role of the World Bank, International Monetary Fund and other facilitating agencies.

The pre-requisite of FIN 202 is required.

Credits: 3

On Occasion

FIN 410 International Banking

A survey of the organization, structure, function and regulation of the international activities of U.S. banks. An examination is made of the role and impact of the international financial and money market activities, along with a comparison of foreign banking structure and organization with that of U.S. banks. The international lending decision process and the use made of the international banking facilities by multinational firms are also analyzed.

The pre-requisites of FIN 201 and FIN 202 are required.

Credits: 3

On Occasion

FIN 450 Seminar: Current Topics in Finance

Advanced financial topics. Required for all finance majors.

The pre-requisite of FIN 325 is required.

Credits: 3

Every Spring

Law Courses

LAW 201 Business, Law, and Society

This course explores the legal and social contexts within which businesses operate and the interaction between business entities and the American legal system. Students examine various areas of law that are inherently associated with operating a business enterprise, workplace issues, regardless of career path, and transactions that are commonplace in their daily lives. Topics include, but are not limited to, laws pertaining to contracts, sales, torts, antitrust, securities regulations, employment discrimination, as well as ethics, and the legal aspect of different business entities forms. Students from all disciplines should benefit from this course.

The pre-requisites of BUS 101 and 110 required.

Credits: 3

Every Fall and Spring

LAW 211 Introduction to Law and Legal Reasoning

An introduction to law and the legal system, the case method of study, and legal reasoning. Topics covered are intentional torts, negligence, contracts, agency, employment law and the Uniform Commercial Code, particularly the law of sales and commercial paper.

Credits: 3

Every Fall and Spring

LAW 212 The Legal Environment of Business

Personal and real property law. The study of partnerships, limited liability companies, corporations, bailments and other forms of business organization, including an introduction to securities law. Also covered are insurance, suretyship, bankruptcy, estates and trusts, and an accountant's professional responsibility.

Pre-requisite of LAW 211 is required.

Credits: 3

Every Fall and Spring

DEPARTMENT OF TECHNOLOGY, INNOVATION AND COMPUTER SCIENCE

Associate Professor Ghriga (Acting Chair)
 Professor Rodriguez
 Associate Professors Chung, League
 Adjunct Faculty: 5

In the global marketplace, no company or organization can exist without computers and technology. Companies rely on highly skilled and technically adept people to maintain software and hardware and provide support. New uses for computers emerge continuously and the potential for technology is unlimited. The outlook for continued technological development is positive, especially in the fields of communication, transportation, biotechnology, and service industries. Wireless technology, broadband and security technology are all growing fields and technology skills are still in high demand in the government and military, health care and pharmaceuticals. As computer applications expand, jobs for system analysts, computer scientists, and database and network administrators are expected to be among the fastest growing occupations. The Department's primary goal is to instill in students sound analytical reasoning in the latest technologies so that they have long, successful careers in fields that are continually evolving and that offer a broad array of professional opportunities.

The Department of Computer Science offers the Bachelor of Science in Computer Science and the Bachelor of Science in Technology Management and two minors in Computer Science and Technology, which are available to the School of Business students and LIU Brooklyn students.

B.S. in Computer Science

The B.S. in Computer Science degree focuses on the concepts and techniques used in the design and the development of advanced software systems, network designs and systems administration. Students in this program explore the conceptual foundations of computer science – its fundamental algorithms, programming languages, operating systems and software engineering techniques. In addition, they can choose from innovative electives, including artificial intelligence, database systems, graphical user interfaces, game development, e-commerce and computer networks, and system and network administration among others. As with the introductory sequence, these advanced courses stress hands-on learning. The B.S. in Computer Science prepares students for careers as system analysts, computer programmers, database administrators, network administrators, software

developers, and many other technology-oriented careers.

Computer Science majors are required to obtain at least a C- grade in Computer Science 101 and Computer Science 102. A Computer Science major who receives below a C- in Computer Science 101 may not advance to Computer Science 102 unless the student repeats the course and obtains a grade of C- or better. A Computer Science major who receives below a C- in Computer Science 102 may not continue in the major unless the student repeats the course and obtains a grade of C- or better. A 2.5 grade point average in all computer courses is required in order to graduate from this program.

B.S., Computer Science Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	not required
Social Sciences	
History	6 credits
Economics	6 credits
Science and Mathematics	
Mathematics	3 credits
Sciences (BIO 22, CHEM 21 & PHY 20)	10 credits
Communication, Visual & Performing Arts	
Speech	3 credits
Visual & Performing Arts	not required

Liberal Arts Elective Requirements

Introductory Arts & Sciences	6 credits
Electives(1)	
Advanced Arts & Sciences	9 credits
Electives(2)	

(1)Any introductory or Advanced Course Offered by Conolly College

(2)Any Advanced Courses (Numbered over 100) Offered by Conolly College

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required: Courses numbered above 100 offered by Conolly College and numbered above 202 by the School of Business, Public Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business Courses Numbered 101,102 or 201, 202 Do Not Satisfy This Requirement.

Major Requirements

All of the following Computer Science courses are required:

CS 101	Fundamentals of Computer Science and Information Sciences	3.00
CS 102	Programming I	4.00
CS 117	Programming II	4.00
CS 118	Computer Architecture	3.00
CS 130	Algorithms and Data Structures I	3.00
CS 132	Discrete Structures in Computer Science	3.00
CS 150	Operating Systems	4.00
CS 161	Object-Oriented Programming	3.00
or		
CS 162	Artificial Intelligence	
CS 164	Software Engineering	3.00

Business Requirement: 6 Credits

MAN 231	Managerial Communications	3.00
QAS 228	Business Statistics I	3.00

Advanced Computer Science Electives: 18 Credits

Any Computer Science Course numbered over 102.

Business or Computer Science Electives: 12 Credits

Any Introductory or Advanced Course offered by the School of Business, Public Administration and Information Sciences.

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 65 credits
 Minimum Total Major Credits: 63 credits
 Minimum Advanced Credit Requirement: 48 credits (see above for details)
 Minimum Major G.P.A.: 2.5
 Minimum Cumulative G.P.A.: 2.0

B.S. in Entrepreneurship

The program is designed to engage students to think entrepreneurially while they learn how to execute on their vision efficiently and effectively. Entrepreneurship majors at LIU Brooklyn will learn how to prepare and execute a comprehensive strategy for launching a new venture. The venture can be in any organizational context - large or small, new or existing, non-profit or for-profit. The entrepreneurial process of value creation through innovation remains the same regardless of the context or the ultimate goal. Another important characteristic of this major is its

experiential nature. Students will interact extensively with the business community both inside and outside the classroom and produce a plan that is both defensible to potential investors and actionable in the real world.

The entrepreneurship program will appeal to the many current and potential students who have goals of self-sufficiency. A recent poll by Junior Achievement found that 68% of teenagers want to start their own business. In fact, the U.S. Small Business Administration reports that small businesses employ more than 50% of the private workforce, generate more than half of the nation's gross domestic product, and are the principal source of new jobs in the U.S. economy, so this is not an insignificant population.

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language not required

Social Sciences

History 6 credits
 Economics 6 credits

Science and Mathematics

Mathematics 3 credits
 (BIO 22, CHM 21 & PHY 20) 10 credits

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts not required

Liberal Arts Elective Requirements:

Introductory Arts & Sciences Electives (1) 6 credits
 Advanced Arts & Sciences Electives (2) 9 credits

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered By Conolly College

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required: Courses numbered above 100 offered by Conolly College and numbered above 202 by the School of Business, Public Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business Courses Numbered 111, 112, 201, 202 Do Not Satisfy This Requirement.

Business Core: 36 credits

The following eleven (12 courses are required:

ACC	110	Accounting for Business Major	3.00
BUS	101	Introduction to Business in the 21st Century	3.00
BUS	110	Foundations of Business Information Systems	3.00
BUS	229	Research Methods in Business	3.00
FIN	201	Financial Markets and Institutions	3.00
FIN	202	Introduction to Corporate Finance	3.00
IBU	221	International Business	3.00
LAW	201	Business, Law, and Society	3.00
MAN	201	Principles of Management	3.00
MAN	231	Managerial Communications	3.00
MKT	201	The Fundamerntals of Marketing	3.00
QAS	228	Business Statistics	3.00

Major Requirements: 15 credits

Entrepreneurship Specialization Requirements

ENT	200	Entrepreneurship and Innovation	3.00
ENT	201	Developing a New Venture Value Proposition	3.00
ENT	202	Developing a New Business Model	3.00
ENT	203	Entrepreneurial Consulting	3.00

Advanced Business Electives: 12 Credits

Choose Four (4) Advanced Business Courses Numbered Over 202

Capstone Experience- 3 Credits

BUS	401	Business Policy	3.00
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Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 65 credits
 Minimum Total Major Credits: 63 credits
 Minimum Advanced Credit Requirement: 48 credits (see above for details)
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Technology Management

The BS in Technology Management program offers academic preparation for IT careers as IT specialists in network and database administration, IT web services and IT operations. In addition, the new program will play a vital role in introducing timely and topical courses wich will benefit the undergraduate students in the department of Technology, Innovation & Computer Science.

The mission of the Technology Management program is to prepare students for technical,

administration and management careers in the analysis, design, development, implementation, maintenance, support, operation and management of computer and networked information systems. Students will develop in-depth technical skills directly applicable to current technology environments in various industries with a broad understanding of the business context in the service sector.

The new program will enable the department to prepare graduates who have broad knowledge and skills to apply technology in the service economy. This is directly related to the mission of the department.

B.S. in Technology Management

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation, Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language not required

Social Sciences

History 6 credits
 Economics 6 credits

Science and Mathematics

Mathematics 3 credits
 Sciences 10 credits
 (BIO 22, CHEM 21, & PHY 20)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts not required

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required: Courses numbered above 100 offered by Conolly College of Liberal Arts & Sciences and numbered above 202 by the School of Business, Public Administration and Information.

Liberal Arts Elective Requirements:

Introductory Arts & Sciences 6 credits

Electives(1)

Advanced Arts & Sciences 9 credits

Electives(2)

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered by Conolly College

Technology Major: 42 Credits

Computer Science requirement: the following five (5) courses, 18 credits, are required:

CS	101	Fundamentals of Computing	3.00
CS	102	Programming I	4.00
CS	117	Programming II	4.00
CS	148	Database Systems I	4.00
CS	154	Computer Network	4.00

Business Core requirement: the following eight (8) courses, 24 credits, are required:

ACC	110	Accounting for Business Majors	3.00
ENT	200	Entrepreneurship & Innovation	3.00
FIN	201	Financial Market & Institutions	3.00
MAN	201	Principles of Management	3.00
MAN	231	Managerial Communications	3.00
MAN	353	Operations Management	3.00
MKT	201	Fundamentals of Marketing	3.00
MIS	300	Strategic Information Technology	3.00

Computer Science Electives: 15 credits required

CS	129	E-Commerce Programming	3.00
CS	140	Human Computer Interaction	3.00
CS	153	Medical Informatics	3.00
CS	159	Mobile Computing Platforms	3.00
CS	162	Artificial Intelligence	3.00
CS	166	Web Services	3.00

Capstone Experience: 6 credits required

CS	164	Capstone Project I	3.00
CS	165	Capstone Project II	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 65 credits
 Minimum Total Major Credits: 63 credits
 Minimum Advanced Credit Requirement: 48 credits (see above for details)
 Minimum Major G.P.A.: 2.5
 Minimum Cumulative G.P.A.: 2.0

Minor in Computer Science

The Computer Science minor is designed to give the student of any discipline an excellent working knowledge of the field of computer science. A student with a minor in Computer Science will be able to integrate the practices of his or her major

field of study with the growing area of computers. The minor gives the student a complete background knowledge of effective programming techniques and tools available to those working in the computer field.

The Computer Science minor requires the following 18 credits:

CS	101	Fundamentals of Computer Science and Information Systems	3.00
CS	102	Programming I	3.00
CS	117	Programming II	3.00
CS	118	Computer Architecture	3.00
CS	130	Algorithms and Data Structures	3.00
CS	150	Operating Systems	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 18 credits
 Minimum Minor G.P.A.: 2.0

Minor in Entrepreneurship

The Entrepreneurship Minor provides students with a practical yet academically sound opportunity to pursue their creative ideas to formulate business ventures. The minor focuses on “learning by doing” as students take their ideas from inception to a complete business plan for a new venture. The program emphasizes the integration of functional knowledge and skills with creative business and product/service development.

The Entrepreneurship Minor requires the following 12 credits:

ENT	200	Entrepreneurship and Innovation	3.00
ENT	201	Entrepreneurship Planning I (Developing a New Venture Value Proposition)	3.00
ENT	202	Entrepreneurship Planning II (Developing a Business Model)	3.00
ENT	203	Entrepreneurial Consulting	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 12 credits
 Minimum Minor G.P.A.: 2.0

Minor in Technology

The Technology Minor is designed to provide students with a broad introduction to computer technology. The instruction is focused on developing the skills needed in areas such as – databases, networks, web development, and privacy and security-which are essential in today’s work environment.

The Technology Minor requires the following 15 credits:

CS	101	Fundamentals of Computer Science and Information Sciences	3.00
CS	102	Programming I	3.00
CS	148	Database Systems I	3.00
CS	154	Computer Networks	3.00

and one course from the following:

CS	120	Web Development	3.00
CS	158	Privacy and Internet Security	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 15 credits
 Minimum Minor G.P.A.: 2.0

Computer Science Courses

CS 9 Introduction to Windows Environment

All the basic functions of Windows, such as working with Windows programs, customizing Windows, managing files and folders using Windows Explorer, Operating Systems, disk management and storage, and a brief introduction to Word Processing, Spreadsheets, and Database are explained. Emphasis is on hands-on work.

Credits: 1

Every Fall and Spring

CS 9A Word Processing

All the basic functions of a word processor, such as creating, editing and retrieving documents, enhancing and managing documents, creating graphics and charts are explained. Work is done with multiple documents. Touch-typing instructions are not part of the course.

The pre-requisite of CS 9 is required.

Credits: 1

Every Fall and Spring

CS 9B Spreadsheets

All the basic functions of spreadsheets, such as planning and designing a worksheet, building a worksheet with formulas, enhancing a worksheet, enhancing and managing workbooks, and creating a chart, are explained.

The prerequisite of CS 9 is required of all majors except students in the School of Business.

Credits: 1

Every Fall and Spring

CS 9C Fundamentals of Database

All the basic functions of a database, such as creating and designing tables, creating and using queries, creating and designing forms, and creating and using reports are explained.

The pre-requisite of CS 9 is required.

Credits: 1

Every Fall and Spring

CS 9D Statistical Packages for Social Sciences (SPSS)

This course will cover a broad range of statistical procedures that allow the summarization of data (computer means standard deviations), determines whether there are significant differences between groups (T-Test, Analysis of variance), examine relationship among variables (correlation, multiple regression), and graph results (Bar Charts, Line Graphs) are explained.

Pre-requisites of CS 9 and CS 9K are required.

Credits: 1

On Occasion

CS 9E Advanced Word Processing

This course was developed primarily as a hands-on learning experience. The student will learn how to apply software skills to meet real-world situations. The student will focus on how to apply what was learned to perform computer-related tasks that will

be needed in the office, school and every-day-life including document formatting for resumes, table design for questionnaires, mail merge for letters, document production for proposals, and form design for applications.

The prerequisite of CS 9A is required of all majors except students in the School of Business.

Credits: 1

Every Fall and Spring

CS 9F Introduction to Desktop Publishing

This course will cover the basic desktop publishing skills, such as creating a publication, working with text and graphics, customizing a publication, adding color, working with long publication, and publishing electronically.

Pre-requisite of CS 9E is required.

Credits: 1

On Occasion

CS 9H Internet (WWW)

All the basics of Internet, such as browsing the World Wide Web, retrieving, saving, and printing information obtained from the web, types of web resources, web search resources, successful search techniques, working with bibliographies and citing web sources, and using other methods to search the web are explained.

The pre-requisite of CS 9 is required.

Credits: 1

Every Fall and Spring

CS 9J Web Page Design

All the basic functions of creating a web page, such as developing a basic web page, creating a hypertext links to a web page, designing a web page with fonts, colors, and graphics, are explained.

Pre-requisite of CS 9H is required.

Credits: 1

Every Fall and Spring

CS 9K Advanced Spreadsheets

This course was developed primarily as a hands-on learning experience. The student will learn how to apply software skills to meet real-world situations. Calculation of loan amortizations (worksheet building), developing payroll records (worksheet linking), charting, and investment analysis (financial and data analysis) are done as independent topics.

The prerequisite of CS 9B is required of all majors except students in the School of Business.

Credits: 1

Every Fall and Spring

CS 9L Advanced Fundamentals of Database

Students will study the advanced features of a database system such as design and create multiple tables, design and create multi-table queries, using calculation and action queries, and design and create reports, using form controls.

Pre-requisite of CS 9C is required.

Credits: 1

On Occasion

CS 9M PowerPoint

The student will learn how to transform ideas into professional and compelling presentations, such as creating, modifying, customizing presentations, enhancing charts, embedded objects and hyperlinks. Students will also learn how to use slide show features.

The pre-requisite of CS 9A or equivalent is required.

Credits: 1

Every Fall and Spring

CS 9N Advanced Web Page Design

The student will learn how to transform ideas into professional and compelling web pages. Topics include designing a web page with tables, using frames in a web site, and posting resumes to web pages. Students will develop their own web pages.

Pre-requisite of CS 9J is required.

Credits: 1

On Occasion

CS 9O Digital Imaging (Photoshop)

This course is designed for students with little or no Photoshop experience. Students will develop a working knowledge of the various tools and techniques used in the manipulation of digital images, apply these tools and techniques in the creation and editing of images in different contexts that range from Web to multimedia applications, including personal use and traditional print media. They will develop the ability to import images via scanners and digital cameras, enhance, colors, manipulate images, add image layers, and create animation. Weekly assignments will provide students with the opportunity to learn basic techniques and terminology and work with paint and illustration, graphics and images.

The pre-requisite of CS 9 is required.

Credits: 1

On Occasion

CS 9P Home Networking Basics

This course is designed for students with little or no computer experience. Students will develop a working knowledge of the various tools and techniques used to make computers more convenient, cost effective, and fun to use. Students will be taught how to connect computers together, about the various types of networks, appropriate network hardware installations, internet connections, network configuration including file sharing and folders, sharing printers and peripherals, and how to use the network to communicate with others.

The pre-requisite of CS 9 is required.

Credits: 1

Every Fall and Spring

CS 101 Fundamentals of Computer Science and Information Sciences

A broad overview of the main areas of study in Computer and Information Sciences. Topics include computer organization, information processing, algorithms, and programming. The

main ideas behind the theory and design of Operating Systems, Databases, and Computer Networks, along with current views on the theory and practice of Software Engineering, and the basics of Artificial Intelligence are also explored. The course highlights the uses of computing systems in business, the sciences, and other professional fields. This course is required for all students majoring in Computer Science or Technology Management. It is also suitable for majors in other disciplines who want to go beyond being casual users of computers to gain a deeper appreciation of some of the most important computing and information technologies developed over the last fifty years. Three lecture hours, one hour lab.

Credits: 3

Cross-Listings: CIS 101, CS 101

Every Fall and Spring

CS 102 Programming I

Problem solving, algorithmic design, and implementation using the C++ programming language are presented. Topics include fundamental data types and associated array types, I/O processing, conditional and loop constructs, use and implementation of functions. A brief overview of structures is given. Throughout the course, good programming styles and sound program construction are emphasized. Three lecture hours, one hour lab.

The pre-requisite of CS/CIS 101 is required.

Credits: 4

Cross-Listings: CIS 102, CS 102

Every Fall and Spring

CS 117 Programming II

A continuation of CS 102 using the C++ programming language. Emphasis is on larger multi-file projects. Topics include file processing, pointers, dynamic memory allocation and its usage, string processing, aggregated data types, and their associated algorithms. Elements of object-oriented programming, such as classes and their public interfaces" usage, are introduced. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 102 is required.

Credits: 4

Cross-Listings: CIS 117, CS 117

Every Spring

CS 118 Computer Architecture

The course provides a comprehensive study of computer architecture and organization. Boolean algebra is introduced to teach digital devices. The operational units and their interconnections that realize the architectural specification of a computer are studied and their overall performance is analyzed. The design and implementation of a simple processor is an integral part of the course. Programming at different levels is also introduced.

Pre-requisite of CS 102 is required.

Credits: 3

Every Spring

CS 120 Web Development

Web page and Common Gateway interface (CGI) application development. Topics include HTML, Web browser and server communication using HTTP and HTTPS, browser state tracking, basic web server configuration settings, Client Side Java Scripting, back end database connectivity, and CGI application development using common tools and languages. Students are required to develop and complete several web based applications such as a shopping cart style website. Three hours lecture, one hour laboratory.

Pre-requisite of CS 102 is required.

Credits: 3

On Occasion

CS 128 Information Systems Analysis and Design

A comprehensive introduction to the fundamental concepts of systems analysis and design: industrial perspective of information technology; software process models, human factors, project management; requirements of engineering and analysis; and system modeling techniques, design methodologies, post-implementation analysis, and CASE tools support. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 3

Cross-Listings: CIS 128, CS 128

Every Fall

CS 130 Algorithms and Data Structures I

A study of the design and representation of information and storage structures and their associated implementation in a block-structured language; linear lists, strings, stacks, queues, multi-linked structures, representation of trees and graphs, iterative and recursive programming techniques; storage systems, structures and allocation; file organization and maintenance; and sorting and searching algorithms. Three hours lecture, one hour laboratory.

Pre-requisite of CS 117 is required.

Credits: 3

Every Fall

CS 132 Discrete Structures in Computer Science

A study of the treatment of discrete mathematical structures and relevant algorithms used in the programming and computer science. Topics include the list, tree, set, relational and graph data models and their representation and use in searching, sorting and traversal algorithms; also, simulation, recursive algorithms and programming, analysis of running time of algorithms, and an introduction to finite-state machines and automata. Three hours lecture, one hour laboratory.

Pre-requisite of CS 130 is required.

Credits: 3

Every Spring

CS 135 Compiler Theory and Design

An examination of fundamental compiler organization. Topics include lexical analysis, syntax analysis, abstract syntax trees, symbol table

organization, code generation and code optimization. Students are expected to implement a compiler for a given language, using tools such as LEX and YACC. Three hours lecture, one hour laboratory.

Pre-requisite of CS 130 is required.

Credits: 3

On Occasion

CS 148 Database Systems I

The course is designed to impart the concepts and the practical aspects of database management systems and to provide an understanding of how data resources can be designed and managed to support information systems in organizations. Topics covered include: database system functions, Entity-relationship (ER) modeling and relational database model, basic normalization techniques, data integrity, and SQL query language. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 101 is required.

Credits: 4

Cross-Listings: CIS 148, CS 148

Every Fall

CS 149 Database Systems II

A continuation of Database Systems I introduced in CS 148. The course focuses on database programming techniques and some topics in advanced database design. Topics include: object-oriented database features, PL/SQL database programming with exception and error handling, database security and authorization, and concurrency control and recovery. Other advanced topics and issues in distributed and Internet databases, and data warehousing are also covered. Three hours lecture, three hours laboratory.

Pre-requisite of CS 148 is required.

Credits: 3

On Occasion

CS 150 Operating Systems

An introduction to the fundamental concepts of operating systems: architectural support and operating systems interface; system calls; and process structure, concepts, management, interprocess communication, threads, memory management and virtual memory, file system interface and its implementation. Case studies from UNIX and Windows NT are examined. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 4

Cross-Listings: CIS 150, CS 150

Every Spring

CS 151 Programming Languages

A study of programming languages, environments, and tools. Modern software applications are increasingly implemented using a combination of different programming languages, each with its own strengths. Complex systems also incorporate "little languages" for specifying configuration details and business rules. In this course, students study language design issues, run-time organization,

interpreters, programming environments, and other language-related tools. Three different languages are examined as case studies. Three hours lecture, one hour laboratory.

Pre-requisite of CS 117 is required.

Credits: 3

On Occasion

CS 152 Numerical Computation

An examination of algorithms to numerically evaluate integration, differentiation, infinite series, partial differential equations, interpolation and systems of equations. Error bounding, numerical stability and loss of precision are considered. Three hours lecture, one hour laboratory.

Credits: 3

On Occasion

CS 153 System Software - C Language

System software implementation using C language. Topics include: functional decomposition, separate implementation code compilation, static and dynamic data structures, input/output, preprocessor facilities and the C Library. This course has an additional fee.

Prerequisite CS 116 is required.

Credits: 4

On Occasion

CS 154 Computer Networks

An examination of the process used for data communication, including local area networks, satellite links, error handling, transmission capacity, circuit, packet and virtual networks, sliding window protocols, encryption, text compression, and distributed systems.

The pre-requisite of CS/CIS 102 is required.

Credits: 4

Cross-Listings: CIS 154, CS 154

Every Fall

CS 156 Internet Programming

A study of application programming for the Internet. Emphasis is on Java programming and object-oriented programming using the Java language. Java topics include classes, interfaces, polymorphism, threads, database-access, and applets. Students are required to complete projects that run on a web server. Three hours lecture, one hour laboratory.

Pre-requisite of CS 117 is required.

Credits: 3

On Occasion

CS 157 Graphical User Interface

Development of Graphical applications for either Microsoft Windows or Unix X-Windows using an integrated development environment. Topics include building and design of form windows, event handling, program structure, and database connectivity. Three hours lecture, one hour laboratory.

Pre-requisite of CS 102 is required.

Credits: 3

On Occasion

CS 158 Privacy and Internet Security

A broad survey of the security and privacy threats faced by today's networked computing systems, and of the tools and techniques available to counteract such threats. Topics covered include cryptographic methods, authentication, electronic mail security, computer viruses, Internet security threats, and firewalls. Concrete technologies are presented, such as Kerberos (networked authentication system), IPSec under Windows(privacy), and iptables under Linux (firewalls). The laboratory sessions give the students a chance to implement working security and privacy policies under both Windows and Linux. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 154 is required.

Credits: 4

Cross-Listings: CIS 158, CS 158

On Occasion

CS 160 Computer Graphics

An overview of Computer Graphics using the OpenGL standard for rendering graphics, across different platforms and hardware. OpenGL is the preferred standard of developers and amateurs alike to create and manage game programs and other animated graphics application. Topics include the management of windows environment, rendering of primitive objects and complex objects in 2D and 3D, use of light, texture and perspective manipulation to create 3D effects, binding images to objects, and adding sounds. Three hours lecture, one hour laboratory.

Pre-requisite of CS 117 is required.

Credits: 3

On Occasion

CS 161 Object-Oriented Programming

Comprehensive treatment of object-oriented programming design techniques in C++. Specific topics include encapsulation, object classes, inheritance, polymorphism and genericity. Templates and the Standard Template Library (STL) are thoroughly presented and used in program construction. Run-Time Type Identification (RTTI) is also covered. Three hours lecture, one hour laboratory.

Pre-requisite of CS 130 is required.

Credits: 3

Every Spring

CS 162 Artificial Intelligence I

An introduction to the processes by which machines simulate intelligence. Topics include knowledge-representation techniques, including the predicate logic, state space problem formulation, logical reasoning methods, exhaustive and heuristic search strategies, rule-based production systems and examples of expert systems. PROLOG programming explained comprehensively. Each student is required to implement a small rule-based system in PROLOG. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 3

Cross-Listings: CIS 162, CS 162

Alternate Fall

CS 163 Data Mining and Business Intelligence

The study of advanced PROLOG programming, including advanced topics in knowledge representation and reasoning methods, which include semantic networks, frames non-monotonic reasoning and reasoning under uncertainty. A study is made of concepts and design techniques in application areas, such as natural-language processing, expert systems and machine learning. Introduction is made to genetic algorithms and neural networks. Three hours lecture, one hour laboratory.

Pre-requisites of CS 130 and CS 162 are required.

Credits: 3

On Occasion

CS 164 Software Engineering

A study of software project management concepts, software cost estimation, quality management, process involvement, overview of analysis and design methods, user interface evaluation, and design. Also considered are dependable systems - software reliability, programming for reliability, reuse, safety-critical systems, verification and validation techniques; object-oriented development; using UML; and software maintenance. Three hours lecture, one hour laboratory.

Pre-requisite of CS 130 is required.

Credits: 3

Every Spring

CS 165 Component-based Software Development and Reusability

The course provides an in-depth introduction to reusability and Component-Based Software Engineering (CBSE). The basic concepts of components, interfaces, contracts, design patterns and frameworks are presented. Topics covered include: current Component specification techniques such as UML and the Object Constraint Language (OCL); Component Models and Technology such as COM, DCOM, .NET; and Component composition and Integration.

Pre-requisite of CS 128 or CS 164 is required.

Credits: 3

On Occasion

CS 167 System and Network Administration

This course is designed to teach students how to administer a small network: install operating systems and packages, partition the disk, configure the network (routing and IP assignment), secure the network by means of firewalls, configure the mail system as well as the Web services, create user accounts, install new hardware, and manage printers. Three hours lecture, one hour laboratory.

Pre-requisites of CS 118 and CS 154 are required.

Credits: 3

On Occasion

CS 168 Special Topics in Computer Science

Discussion of topics of current interest in computer

science in the area of the instructor's specialty. Topics include: ASP Dot-Net Programming, E-commerce Developments and Applications, Web Animation, iPhone applications, and other topical developments in the field. One hour laboratory may be included, depending on the topic.

Credits: 3

On Occasion

CS 169 Special Topics in Computer Science

Discussion of topics of current interest in computer science in the area of the instructor's specialty. Topics include: ASP Dot-Net Programming, E-commerce Developments and Applications, Web Animation, iPhone applications, and other topical developments in the field. One hour laboratory may be included, depending on the topic.

Credits: 3

On Occasion

CS 170 Computer Science Internship

An opportunity to extend classroom knowledge and gain direct practical experience in the computer field as an intern with a New York City government agency or with a major corporation in the metropolitan area. Students receive meaningful internship assignments and are directed by professionals in the normal working environment. Each student is required to schedule meetings with a faculty adviser, who provides academic supervision. May be taken twice for up to six credits. Completion of sophomore year and recommendation of the Department Chair are required.

Credits: 3

On Demand

CS 195 Honors Study

Honors Study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of a member of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, a cumulative quality-point ratio of 3.00 and a 3.25 in the major subject, and the permission of the Chair of the Department and the Dean. Students must complete an application for Honors Study outlining the research or independent work to be undertaken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

Technology Management Courses

CIS 101 Fundamentals of Computer Science and Information Sciences

A broad overview of the main areas of study in Computer and Information Sciences. Topics include computer organization, information processing, algorithms, and programming. The

main ideas behind the theory and design of Operating Systems, Databases, and Computer Networks, along with current views on the theory and practice of Software Engineering, and the basics of Artificial Intelligence are also explored. The course highlights the uses of computing systems in business, the sciences, and other professional fields. This course is required for all students majoring in Computer Science or Technology Management. It is also suitable for majors in other disciplines who want to go beyond being casual users of computers to gain a deeper appreciation of some of the most important computing and information technologies developed over the last fifty years. Three lecture hours, one hour lab.

Credits: 3

Cross-Listings: CIS 101, CS 101

Every Fall and Spring

CIS 102 Programming I

Problem solving, algorithmic design, and implementation using the C++ programming language are presented. Topics include fundamental data types and associated array types, I/O processing, conditional and loop constructs, use and implementation of functions. A brief overview of structures is given. Throughout the course, good programming styles and sound program construction are emphasized. Three lecture hours, one hour lab.

The pre-requisite of CS/CIS 101 is required.

Credits: 4

Cross-Listings: CIS 102, CS 102

Every Fall and Spring

CIS 117 Programming II

A continuation of CS 102 using the C++ programming language. Emphasis is on larger multi-file projects. Topics include file processing, pointers, dynamic memory allocation and its usage, string processing, aggregated data types, and their associated algorithms. Elements of object-oriented programming, such as classes and their public interfaces" usage, are introduced. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 102 is required.

Credits: 4

Cross-Listings: CIS 117, CS 117

Every Spring

CIS 128 Information Systems Analysis and Design

A comprehensive introduction to the fundamental concepts of systems analysis and design: industrial perspective of information technology; software process models, human factors, project management; requirements of engineering and analysis; and system modeling techniques, design methodologies, post-implementation analysis, and CASE tools support. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 3

Cross-Listings: CIS 128, CS 128

Every Fall

CIS 129 E-Commerce Programming

The course is an introduction to the design, implementation, and the administration of e-commerce web sites. Students are expected to integrate several technologies to develop an e-commerce website which can display merchandise/services, accept orders, and process electronic payments.

The pre-requisites of CS/CIS 117 and CS/CIS 148 are required.

Credits: 4

Cross-Listings: CIS 129, CS 129

Every Spring

CIS 140 Human-Computer Interaction

The course explores the design, evaluation, and implementation of interactive computing systems for human use. We will develop user interface prototypes according to cognitive principles and test them in real user scenarios.

The pre-requisite of CS/CIS 102 is required.

Credits: 3

Every Spring

CIS 148 Database Systems I

The course is designed to impart the concepts and the practical aspects of database management systems and to provide an understanding of how data resources can be designed and managed to support information systems in organizations. Topics covered include: database system functions, Entity-relationship (E-R) modeling and relational database model, basic normalization techniques, data integrity, and SQL query language. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 101 is required.

Credits: 4

Cross-Listings: CIS 148, CS 148

Every Fall

CIS 150 Operating Systems

An introduction to the fundamental concepts of operating systems: architectural support and operating systems interface; system calls; and process structure, concepts, management, interprocess communication, threads, memory management and virtual memory, file system interface and its implementation. Case studies from UNIX and Windows NT are examined. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 4

Cross-Listings: CIS 150, CS 150

Every Spring

CIS 153 Medical Informatics

The course presents the major concepts, systems and standards in medical and health informatics. The objective is to familiarize the student with the acquisition, storage and use of medical data and use of clinical databases. The course will put emphasis on the medical data, system interfaces, knowledge and decision analysis, and the main systems in use

in the health care industry.

The pre-requisite of CS/CIS 148 is required.

Credits: 3

Every Fall

CIS 154 Computer Networks

An examination of the process used for data communication, including local area networks, satellite links, error handling, transmission capacity, circuit, packet and virtual networks, sliding window protocols, encryption, text compression, and distributed systems.

The pre-requisite of CS/CIS 102 is required.

Credits: 4

Cross-Listings: CIS 154, CS 154

Every Fall

CIS 158 Privacy and Internet Security

A broad survey of the security and privacy threats faced by today's networked computing systems, and of the tools and techniques available to counteract such threats. Topics covered include cryptographic methods, authentication, electronic mail security, computer viruses, Internet security threats, and firewalls. Concrete technologies are presented, such as Kerberos (networked authentication system), IPSec under Windows (privacy), and iptables under Linux (firewalls). The laboratory sessions give the students a chance to implement working security and privacy policies under both Windows and Linux. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 154 is required.

Credits: 4

Cross-Listings: CIS 158, CS 158

On Occasion

CIS 159 Mobile Computing Platforms

An introduction to developing mobile applications for platforms such as the iPhone, Android, and Palm webOS. Each semester we survey the entire landscape of mobile operating systems, but then focus on just one platform for developing an application as a course project. This course is designed for a 4-credit lab intensive course.

The pre-requisite of CS/CIS 150 is required.

Credits: 4

Every Fall

CIS 162 Artificial Intelligence I

An introduction to the processes by which machines simulate intelligence. Topics include knowledge-representation techniques, including the predicate logic, state space problem formulation, logical reasoning methods, exhaustive and heuristic search strategies, rule-based production systems and examples of expert systems. PROLOG programming explained comprehensively. Each student is required to implement a small rule-based system in PROLOG. Three hours lecture, one hour laboratory.

The pre-requisite of CS/CIS 117 is required.

Credits: 3

Cross-Listings: CIS 162, CS 162

Alternate Fall

CIS 163 Data Mining and Business Intelligence

This course provides a comprehensive discussion of and practical experience in advanced database techniques, data visualization, data warehousing, online analytical processing (OLAP), data mining, decision support systems (DSS), artificial intelligence (AI) methods and other Business Intelligence (BI) topics. Students gain practical experience using contemporary BI tools and technologies, and apply sound design principles for creating intelligent solutions to realistic business problems.

The pre-requisite of CS/CIS 148 is required.

Credits: 3

Every Fall

CIS 164 Capstone Project

The purpose of the Capstone Project courses are to analyze, design, and implement meaningful Information System that integrates all the other areas in the CIS curriculum, such as Procedural and Object-oriented Programming, Database development, Networking, Web development, etc. Students must submit a proposal for an Information Systems project. The proposal must include: Scope of the project, major requirements, analytical and development tools that will be used, Milestones, testing plans, Documentation plans and Training plans. Upon review and approval by the CS/CIS faculty, a faculty member will be assigned to the student to supervise all the stages of the project. After its completion, the student will make a presentation regarding all aspects of the project before the CS/CIS faculty.

Credits: 3

Every Fall and Spring

CIS 165 Capstone Project

The purpose of the Capstone Project courses are to analyze, design, and implement meaningful Information System that integrates all the other areas in the CIS curriculum, such as Procedural and Object-oriented Programming, Database development, Networking, Web development, etc. Students must submit a proposal for an Information Systems project. The proposal must include: Scope of the project, major requirements, analytical and development tools that will be used, Milestones, testing plans, Documentation plans and Training plans. Upon review and approval by the CS/CIS faculty, a faculty member will be assigned to the student to supervise all the stages of the project. After its completion, the student will make a presentation regarding all aspects of the project before the CS/CIS faculty.

Credits: 3

Every Fall and Spring

CIS 166 Web Services

The course provides a study of the major concepts and techniques for the deployment of Web services and Web based service interactions. Basic and advanced Web standards and technologies are explored in detail. The course addresses various

aspects of Web services including the regerence model for such services (UDDI, SOAP, WSDL), Service-Oriented Architectures (SOA), security/privacy in Web services, and Web service standards.

The pre-requisites of CS/CIS 117, CS/CIS 148 AND CS/CIS 154 are required.

Credits: 3

Cross-Listings: CIS 166, CS 166

Alternate Semesters

MIS 300 Strategic Information Technology

This course provides students with insights and knowledge they need to become active participants in the implementation and management of strategic information technology. The course demonstrates how IT relates to competition and even survival of today's corporations. Students learn how to recognize opportunirites for companies and in the work environment and apply current technologies in innovative ways.

The pre-requisites of MAN 353, CS/CIS 148 and CS/CIS 158 are required.

Credits: 3

Every Fall and Spring

Entrepreneurship Courses

ENT 200 Entrepreneurship and Innovation

This survey course will expose students through readings, cases, field trips, and guest speakers to waht Joseph Schumpeter (1942) warmly called the "creative destructive" process of business and product / service formulation and implementation. This course will examine the literature of entrepreneurial behavior while focusing on several high visibility industries and businesses as well as include an examination of local entrepreneurs in the area. This course has been designed to stimulate interest in entrepreneurship in general and in particular instruct students about business startups an disruptive technologies. It may include such timely topics as greening and socially responsible businesses, not-for-profit entrepreneurship, the family firm, franchises, and intrapreneurship.

Credits: 3

Every Fall and Spring

ENT 201 Developing a New Venture Value Proposition

Targeted to students interested in creating and growing their own businesses, this course will focus on key marketing strategies particularly relevant for new ventures. Students will: (1) apply marketing concepts to entrepreneurial company challenges, which include creating and nurturing relationships with new customers, suppliers, distributors, employees and investors; and (2) understand the special challenges and opportunities involved in developing marketing strategies "from the ground up." This course will engage a series of entrepreneurs and entrepreneurial experts in

fieldwork, case project opportunities, and as guest resources. Students will develop a comprehensive entrepreneurial marketing plan over the semester, selecting either their own business idea or an actual company's project, and choosing to work in teams or individually.

The pre-requisite of ENT 200 is required.

Credits: 3

Every Fall and Spring

ENT 202 Developing a New Business Model

Targeted to students interested in creating and growing their own businesses, this course will focus on financing new ventures as well as existing businesses. Students will examine the elements of entrepreneurial finance, focusing on start-up ventures, and the early stages of company development. The course addresses key questions which challenge all entrepreneurs; how much money can and should be raised; when should it be raised and from whom; what is a reasonable valuation of the company; and how funding should be structured. The subject aims to prepare students for these decisions, both as entrepreneurs and venture capitalists.

The pre-requisite of ENT 200 is required.

Credits: 3

Every Fall and Spring

ENT 203 Entrepreneurship Seminar

Targeted to students who have already developed a business plan as part of the Entrepreneurship Minor or who have developed a business / marketing plan on their own. Students will: (1) review business plans independently and / or as part of a case analysis, (2) review their own business plan and plans of their classmates, (3) have their plan reviewed by members of the business community and then rework the plan based upon their feedback, and (4) finalize their plans and present those plans to a panel of "experts" who deal with business startups and venture capital.

The pre-requisites of ENT 201 and ENT 202 are required.

Credits: 3

Every Fall and Spring

**DEPARTMENT OF
MANAGERIAL SCIENCES**

Professor Sherman (Chair)

Associate Professors Amrouche, Chung, Dinur,
Minowa, Uzun

Assistant Professor Aditya

Adjunct Faculty: 7

Change is the norm for 21st century and therefore the management of change, especially technological change, is paramount for anyone desiring a successful career in business, government, and not-for-profit administration. Whether a student is interested in finance, marketing, or management as a career path, or even starting their own business, knowledge is the key to successfully managing in turbulent times. The Department of Management Science therefore provides all majors a common knowledge and skill set abilities developed to prepare students for managing in the global marketplace. These skills include: communication, critical thinking and analysis, teamwork, appreciation of global and ethnic diversity, ethics and social responsibility, functional and technical skills.

**A.A.S. in Business
Administration**

A career in business can start sooner than you think with the right education and strategy. The two-year A.A.S. in Business Administration prepares students for the competitive early start in the job market by providing you with the basic business competencies and skills necessary to succeed on the job. After successful completion of the Associate degree, students may pursue a Bachelor of Science degree or A Bachelor of Science/ Master of Science degree offered by the School of Business, Public Administration and Information Sciences without loss of credits

**A.A.S., Business Administration
Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

Philosophy 6 credits

Foreign Language not required

Social Sciences

Economics 6 credits

Science and Mathematics

Mathematics 3 credits

Science (BIO 22, CHEM 21, & PHY) 10 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts not required

Arts and Sciences Electives: 6 Credits

Any Introductory (1) or Advanced Course (2)

Offered By Conolly College

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered By Conolly College

Major Requirements

The following seven (6) courses are required:

ACC 110 Accounting for Business 3.00

BUS 101 Majors Introduction to Business in the 21st Century 3.00

BUS 110 Foundations of Business Information Systems 3.00

FIN 201 Financial Markets and Institutions 3.00

MAN 201 Principles of Management 3.00

MKT 201 The Fundamentals of Marketing 3.00

Business Electives: 12 Credits

Any Introductory or Advanced Courses Offered by the School of Business, Public Administration and Information Sciences

Credit and G.P.A. Requirements

Minimum Total Credits: 65 credits

Minimum Total Liberal Arts and Sciences Credits: 35 credits

Minimum Total Major Credits: 30 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Business Management

Managers play a critical role in shaping America's future. Businesses need managers who are effective, creative, disciplined, ethical and well educated. The management degree gives students the necessary career skills to obtain diverse and innovative managerial and professional positions in all areas of business. Career opportunities include management positions in manufacturing companies, business and management consulting, financial planning and banking, sales management, marketing and personnel administration.

The B.S. in Business Management is designed to give students a broad perspective of organizational management and the marketplace while developing the sound judgment and the professional competency necessary for a career in any business field. The program develops students' leadership, teamwork and communication skills along with computer and quantitative competence.

Students receive in-depth training in managerial

planning, human resources management, decision-making, strategy development, operations management, organizational behavior and service management.

B.S., Business Management

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language not required

Social Sciences

History 6 credits

Economics 6 credits

Science and Mathematics

Mathematics 3 credits

Sciences 10 credits

(BIO 22, CHEM 21, & PHY 20)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts not required

Liberal Arts Elective Requirements:

Introductory Arts & Sciences Electives (1) 6 credits

Advanced Arts & Sciences Electives (2) 9 credits

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered By Conolly College

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required:

Courses numbered above 100 offered by Conolly College and numbered above 202 by the School of Business, Public Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business courses numbered 101, 102 or 201, 202 do not satisfy this requirement.

Business Core: 36 credits

The following eleven (12) courses are required:

ACC 110 Accounting for Business Majors 3.00

BUS 101 Introduction to Business in the 21st Century 3.00

BUS 110 Foundations of Business Information Systems 3.00

BUS 229 Research Methods in Business 3.00

FIN	201	Financial Markets and Institutions	3.00
FIN	202	Corporate Finance	3.00
IBU	221	International Business	3.00
LAW	201	Business, Law and Society	3.00
MAN	201	Principles of Management	3.00
MAN	231	Managerial Communications	3.00
MKT	201	The Fundamentals of Marketing	3.00
QAS	228	Business Statistics I	3.00

Major Requirements:

Management Specialization Requirement: 15 Credits. Choose five (5) courses from Advanced MAN courses Numbered Over 200.

Advanced Business Electives: 12 Credits

Choose Four (4) Advanced Business Courses Numbered Over 202

Capstone Experience: 3 Credits

BUS	401	Business Policy	3.00
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Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 65 credits

Minimum Total Major Credits: 63 credits

Minimum Advanced Credit Requirement: 48 credits (see above for details)

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Marketing

Understanding the dynamic marketplace and the needs of consumers is critical for business success in the 21st century. Marketing involves the study of new product development, marketing research, analysis of distribution systems, determination of pricing policies, predictions of consumer behavior, promotion of products and ideas, and business relationships.

The B.S. in Marketing prepares students for professional careers in a wide variety of marketing functions within business and not-for-profit organizations. The Marketing program is designed to enable students to develop the creative, analytical and communication skills necessary to succeed in Marketing. Students also hone vital skills in product and service promotion, distribution, buyer behavior and market research. Marketing courses focus on integrating theory and practical applications through the use of cases and through hands-on field projects.

The broad range of career opportunities available for students pursuing this major includes marketing research, product management, advertising, public relations, corporate communications and sales. In addition to varied professional options, jobs in marketing often

evolve into positions of considerable responsibility, which provide excellent preparation for upper management opportunities in all types of organizations.

B.S., Marketing

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation Seminar and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
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Humanities

English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	not required

Social Sciences

History	6 credits
Economics	6 credits

Science and Mathematics

Mathematics	3 credits
Sciences	10 credits

(BIO 22, CHEM 21, & PHY 20)

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts	not required

Liberal Arts Elective Requirements:

Introductory Arts & Sciences	6 credits
Electives (1)	
Advanced Arts & Sciences	9 credits
Electives (2)	

(1) Any Introductory or Advanced Course offered by Conolly College

(2) Any Advanced Courses (Numbered over 100) Offered By Conolly College

Advanced Credit Requirement

Minimum of 48 Advanced Credits is Required: Courses numbered above 100 offered by Conolly College and numbered above 202 by the School of Business, Public Administration and Information Sciences must be taken to meet the Advanced Credit Requirement. Business courses numbered 101, 102 or 201, 202 do not satisfy this requirement.

Business Core: 36 credits

The following eleven (12 courses are required):

ACC	110	Accounting for Business Major	3.00
BUS	101	Introduction to Business in the 21st Century	3.00
BUS	110	Foundations of Business Information Systems	3.00
BUS	229	Research Methods in Business	3.00

FIN	201	Financial Markets and Institutions	3.00
FIN	202	Introduction to Corporate Finance	3.00
IBU	221	International Business	3.00
LAW	201	Business, Law, and Society	3.00
MAN	201	Principles of Management	3.00
MAN	231	Managerial Communications	3.00
MKT	201	The Fundamentals of Marketing	3.00
QAS	228	Business Statistics	3.00

Major Requirements

Marketing Specialization Requirement: 15 Credits

Required Marketing Courses: 6 Credits

MKT	325	Consumer Behavior	3.00
MKT	331	Marketing Research: Its Planning Techniques and Evaluation by Management in the Solution of Marketing	3.00

Advanced Marketing Courses: 9 Credits

Any three (3) Advanced MKT courses excluding MKT 201, MKT 325, MKT 331

Advanced Business Electives: 12 Credits

Choose Four (4) Advanced Business Courses Numbered Over 202

Capstone Experience- 3 Credits

BUS	401	Business Policy	3.00
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Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 65 credits

Minimum Total Major Credits: 63 credits

Minimum Advanced Credit Requirement: 48 credits (see above for details)

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Minor in Business

The Business minor is designed to give students a general introduction to the major fields of business. A student without any background in business can complete the 12 credit minor by taking 4 courses that are offered every semester. The Business minor provides students with general knowledge in the areas of accounting, finance, management and marketing. Students will learn fundamental business systems, the organization of corporations, the structure of the U.S. financial system, basic accounting principles, and marketing activities such as advertising and sales. The Business minor requires the following 12 credits:

ACC	110	Accounting for Business Majors	3.00
FIN	201	Financial Markets and Institutions	3.00
MAN	201	Principles of Management	3.00
MKT	201	The Fundamentals of Marketing	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 12 credits

Minimum Minor G.P.A.: 2.0

Minor in Management

The Management minor gives students a fundamental knowledge of management theory, organizational behavior, human resources development, and operations and service industry management. The Management minor is of use to any student interested in understanding why organizations are structured the way they are. Course content can be applied to many fields, including health, government, sales, and other disciplines where a positive management experience is desired.

The Management minor requires the following 15 credits:

MAN	201	Principles of Management	3.00
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Four (4) Advanced Management courses numbered over 202

Credit and G.P.A. Requirements

Minimum Total Credits: 15 credits

Minimum Minor G.P.A.: 2.0

Minor in Marketing

The Marketing minor is designed to develop expertise in advertising, sales, promotion, and product development. The Marketing minor helps students understand how to promote products or ideas or institutions. It emphasizes how to develop an understanding of target audiences in order to design winning sales plans.

The Marketing minor requires the following 15 credits:

MKT	201	Fundamentals of Marketing	3.00
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Four (4) Advanced Marketing courses numbered over 202

Credit and G.P.A. Requirements

Minimum Total Credits: 15 credits

Minimum Minor G.P.A.: 2.0

Business Courses

BUS 101 Introduction to Business in the 21st Century

This is an introductory course that provides a broad and comprehensive view of today's businesses in a dynamic, technology-driven global economy. This course provides a survey of the field of business and consists of specific topics including: starting a small business, satisfying customers, managing operations, motivating employees and building self-managed teams, developing and implementing customer-oriented marketing plans, managing information, managing financial resources, and exploring ethical and social responsibilities of American business.

Credits: 3

Every Fall and Spring

BUS 110 Foundations of Business Information Systems

This course introduces students to contemporary information systems and demonstrates how these systems are used throughout global organizations for today's management. The focus of this course is on the key components of information systems - people, software, hardware, data, and communication technologies, and how these components can be integrated and managed to create competitive advantage. The course takes place in a computer lab and helps students develop practical competences in the use of various computer systems and software. The course also provides a theoretical and practical introduction to systems and development concepts, technology acquisition, and various types of application software those has become prevalent or are emerging in modern organizations and society and that are essential to be competitive in today's job markets

Credits: 3

Every Fall and Spring

BUS 229 Research Methods in Business

This course prepares students to apply statistics and probability concepts to business decisions. Students learn important criterion for developing effective research questions, including the creation of appropriate sampling populations and instruments. Other topics include descriptive statistics, probability concepts, confidence intervals, sampling designs, data collection, and data analysis including parametric and nonparametric tests of hypothesis and regression analysis.

The pre-requisite of QAS 228 is also required.

Credits: 3

Every Fall, Spring and Summer

MAN 193 Independent Study

For those students in the last semester of their senior year who require one to three credits to meet minimum requirements for graduation. Students must complete an Application for Independent

Study to be approved by the Department Chair and the Dean. Students are assigned to a faculty member who supervises the Independent Study course or project. Students may be required to write a research paper or take a comprehensive examination (or both) in addition to all other course requirements.

Credits: 3

On Demand

MAN 195 Honors Study

Honors Study is designed to give out-standing students an opportunity to do independent work in their major under the guidance of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of Business, Public Administration and Information Sciences, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be under-taken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MAN 196 Honors Study

Honors Study is designed to give out-standing students an opportunity to do independent work in their major under the guidance of the faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of Business, Public Administration and Information Sciences, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research project or independent work to be under-taken and the name of the supervising faculty member. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MAN 197 Internship Study

For Sophomore-Senior student in good academic standing who has taken the introductory course in the discipline and at least 6 additional credits of advanced coursework in the discipline. Student's internship must be approved by the department. Students are assigned to a faculty member who supervises the Internship Study course or project. Students may be required to write a research paper or complete a project in addition to all other course requirements.

The pre-requisites of MAN 201 and two advanced Management courses are required.

Credits: 1 to 3

On Demand

MAN 201 Principles of Management

The human, material and capital resources of an enterprise must be managed effectively and efficiently. The practice of management requires foresight, intellectual skill, and conceptual insight into business realities and judgment. This course presents the process of managing as a rational and orderly activity leading to optimal results. Salient topics given special emphasis are environmental opportunities and constraints, entrepreneurship, planning and control, formal organization structure, the multidimensionality of organizations, individual and interpersonal behavior, and executive decision making.

The pre-requisite of BUS 101 is required.

Credits: 3

Every Fall and Spring

MAN 231 Managerial Communications

A vital skill of any aspiring business executive is the ability to write clearly and concisely. In every field of business the emphasis is on communication both within the organization as well as outside it. This course develops the student's ability to read critically, to evaluate information, to present evidence to support conclusions, and to make recommendations in an effective written business style.

The pre-requisites of COS 50 and SPE 3 or SPE 3X are required or the pre-requisites of HSP 21 and HEG 21 and HEG 22 are required.

Credits: 3

Every Fall and Spring

MAN 350 Service Management

The course introduces students to the principle considerations of managing a service sector enterprise. Relevant topics include understanding the service process, the importance of customer contact and relationships with service organizations, productivity and quality as they relate to service enterprises. The provision of service is viewed as a series of integrated functions within the context of the enterprise.

Pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 351 Managerial Planning and Control II

A comprehensive study of how economic principles are applied to managerial planning, decision making and formulation of business policies. Concepts discussed are economic productivity and financial profitability, examining comparative advantages and finding profit-result areas, demand analysis, cost concepts and cost behavior, pricing objectives, and business strategies.

The pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 352 Organizational Behavior

An analysis of human behavior in the administration of organizations. Topics include organizational theories, individual and group behavior, attitudes, beliefs, motivations,

communications and status hierarchies.

Pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 353 Operations Management

A systems approach to the principles of operation economics in product and service industries. Topics include job and facilities design, method analysis, scheduling techniques, automation, and work measurement and simplification

Pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 354 Decision Making

The course is designed to develop the analytical and conceptual abilities of the decision-making process. Problem analysis, clarification of relevant facts, conflicting objectives and search for alternatives are studied. Emphasis is on the behavioral approach in decision making.

Pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 355 Human Resources Management

A study of basic personnel administration. Specifically considered are the recruiting, selecting, motivating and training of employees. Also discussed are employer-employee labor relations, handling of grievances, and employee benefits.

Pre-requisite of MAN 201 is required.

Credits: 3

Every Fall and Spring

MAN 356 Managerial Systems Analysis

A view of the business organization as a unified system of coordinated management processes for planning, organizing and controlling. Such management systems emphasize the way human and machine resources are tied together through information, communications and feedback systems.

The pre-requisite of MAN 201 is required.

Credits: 3

On Occasion

MAN 357 Seminar in Management Problems

A synthesis of management theory as applied to evaluating current business and socioeconomic problems. Analysis and discussion of case studies and contemporary management problems is conducted.

The pre-requisite of MAN 201 is required.

Credits: 3

On Occasion

MAN 405 Creating and Managing a Small Business

This course focuses on the steps needed to create and manage a small business. Students use knowledge of accounting, finance, management, and marketing to develop a business plan for a new small business venture. The course uses some case

studies and original students business ideas.

Pre-requisites of MAN 201, ACC 112 and MKT 201 are required.

Credits: 3

On Occasion

MKT 193 Independent Study

For those students in the last semester of their senior year who require one to three credits to meet minimum requirements for graduation. Students must complete an Application for Independent Study to be approved by the Department Chair and the Dean. Students are assigned to a faculty member who supervises the Independent Study course or project. Students may be required to write a research paper in addition to all other course requirements.

Credits: 3

On Demand

MKT 195 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of Business, Public Administration and Information Sciences, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research object or independent work to be undertaken and the name of the supervising faculty. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MKT 196 Honors Study

Honors study is designed to give outstanding students an opportunity to do independent work in their major under the guidance of faculty. There are no regular class meetings. To be eligible, students must have upper-junior or senior status, 12 credits in one of the major fields of the School of Business, Public Administration and Information Sciences, a cumulative quality-point ratio of 3.00 and a 3.25 ratio in their major subject, and the permission of the Chair of the Department and the Dean. Students must complete an Application for Honors Study outlining the research object or independent work to be undertaken and the name of the supervising faculty. A total of six credits of Honors Study is the maximum allowed.

Credits: 3

On Demand

MKT 197 Internship Study

For Sophomore-Senior student in good academic standing who has taken the introductory course in the discipline and at least 6 additional credits of advanced coursework in the discipline. Student's

internship must be approved by the department.

Students are assigned to a faculty member who supervises the Internship Study course or project. Students may be required to write a research paper or complete a project in addition to all other course requirements.

The pre-requisites of MKT 201 and two advanced Marketing courses are required.

Credits: 1 to 3

On Demand

MKT 201 The Fundamentals of Marketing

A detailed and critical analysis of the nature and purpose of marketing designed to give the student an overall view of the field. Emphasizes the importance of integration and coordination of marketing activities so that practice and procedure can be geared to understanding effective operations. Consideration is given to such areas as the consumer and the market, product planning and development, distribution structure, pricing, marketing research, advertising and sales promotion, and the marketing of industrial goods and services. A fundamental approach to the area of model construction in marketing is also examined.

The pre-requisite of BUS 101 is required.

Credits: 3

Every Fall and Spring

MKT 325 Consumer Behavior

The aspects underlying consumer decisions and experiences in relation to effective marketing management. The study of the social sciences on which behavior is based, drawing on the fields of psychology, sociology, cultural anthropology. Topics include learning, motivation, attitudes of consumers, ethical consumer issues, cross-cultural consumer behavior and technological aspects influencing consumer behavior.

Pre-requisite of MKT 201 is required.

Credits: 3

Every Fall and Spring

MKT 331 Marketing Research: Its Planning Techniques and Evaluation by Management in the Solution of Marketing

Marketing research viewed as a systematic problem-solving activity concerned with the compilation, analysis and interpretation of marketplace trends. Makes available the various techniques that are generally derived from the physical and social sciences.

Pre-requisite of MKT 201 is required.

Credits: 3

Every Fall and Spring

MKT 333 Advertising and Promotion: Mass Communication Principles and Practices

Offers an understanding of the role of advertising as a vital tool in business and a study of its techniques and practices. An examination of the strategies involved in planning, visualizing and writing advertising copy for mass communication

media. In creating advertising, students will take an idea through the stages involved to its completion as a printed or broadcast message. An attempt is made to develop the creative capabilities of the student.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 334 Advertisement Management: Planning, Evaluation and Decision Making

Advertising management from the points of view of the marketing manager and the general administrator. Advertising is examined as a part of the total marketing mix: advertising and promotion, planning and budgeting, determination of advertising objectives, evaluation of advertising effectiveness, working with advertising agencies. Mathematical programming and case studies will supplement lectures and discussion.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 335 e-Marketing

The rise of the Internet and its proliferation as a mass medium has impacted the traditional role of marketing. Business is becoming increasingly interactive, individualized and efficient. The objective of this course is to give students an overview of utilizing the Internet as a marketing tool and to provide a practical framework for effective Internet marketing. Course topics include understanding the impact of the Internet on business, developing Internet marketing strategies, and describing the consumer online exchange process and its outcomes.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 337 Advanced Market Research

The application of marketing research to problem areas such as sales management, market potentials, pre-testing and post-testing and advertisements, and new product introduction and distribution. The use of marketing research as a tool in specialized areas such as sales forecasting, media evaluation, consumer motivation and buyer behavior. Mathematical programming and case studies are used.

The pre-requisite of MKT 201 and 331 are required.

Credits: 3

On Occasion

MKT 338 International Marketing

The rise of the global corporation is now an irreversible trend that poses many unique challenges not only to multinational American corporations but also to English, Japanese, German and other worldwide corporations. The course deals with diversified socioeconomic and political environments in different parts of the world and considers basic marketing principles and tools as

they relate to the international framework. International demand analysis, channels of distribution, technical and legal features of international exchange, pricing and credit arrangements, and advertising and promotion are considered.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 341 Sales Management

Analysis of sales strategy and adaptive selling methods. Finding and reaching prospective buyers, developing effective sales presentations, handling objections and closing sales. Topics include developing personal attributes necessary for pursuing a career in sales.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 342 Seminar in Marketing Problems

This course tracks contemporary market-place realities and their impact for future job search opportunities. To that end, it examines various marketing strategies to be applied to products or services selected by students. Designed to give students the opportunity for an in-depth assessment regarding future marketplace potential and all marketing implications. Three credits.

Prerequisites:

Pre-requisites of MKT 201 is required.

Credits: 3

On Occasion

MKT 343 Healthcare Marketing

Focuses on the application of marketing principles and concepts in healthcare industry, specifically hospital, pharmaceutical, insurance, physician and patient. This course is specifically designed to introduce students to the marketing issues relevant to the operations in a health care environment. Topics include market segmentation, marketing mix, patient behavior, and strategic marketing planning.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 344 Sports Marketing

A comprehensive study of the dynamic growth of the sports industry in the U.S. and global markets, and the role of sports marketing in its current and future growth. The course examines the specific application of marketing principles and processes to sport products and the marketing of non-sports products through association with the sport, such as sponsorships. Also explored is how sports organizations define their businesses as entertainment providers that use the latest marketing techniques to understand consumers and provide sports products that satisfy their needs. This will include the role of major corporations in sponsorships, team and event promotions, and advertising in mass media such as national TV

networks, cable TV and the Internet.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 345 Telecommunications: Marketing in the Information Age

An exploration of the effect of the Information Age on the management of ideas, products and services. A major consideration is the infrastructure implications of telecommunications on new products or services. Also explored is the significance of telecommunications for tomorrow's business environment.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

MKT 346 Fashion Marketing

An overview of the fashion industry in the U.S. and other foreign countries. Areas of study include history, terminology, theories of fashion, and fashion development from concept design to consumer end use. American and European designers, apparel manufacturers, retailers, and fashion marketing practices will be discussed.

Pre-requisites of MKT 201 is required.

Credits: 3

Every Fall

MKT 351 Marketing Strategy

This course presents the marketing strategy concept as a management tool for optimizing profitability and long-term goals under uncertainty. It focuses on the marketer's deployment of resources to achieve stated goals in a competitive environment through following a unified, comprehensive, and integrated plan. Topics include environmental scanning, marketing opportunity and performance analysis, competitive forces analysis, brand positioning and management, optimal pricing, and distributions.

Pre-requisite of MKT 201 is required.

Credits: 3

On Occasion

QAS 228 Business Statistics I

A study of the foundations in statistical methods as they apply to the analysis of business conditions and projections. Topics covered include: graphic and tabular representations, measure of central tendency and dispersion, probability, binomial and normal distributions, sampling distributions and hypothesis testing, simple regression and correlation analysis, and index numbers.

The pre-requisite of MTH 16, MTH 30 or MTH 40 is required.

Credits: 3

Every Fall, Spring and Summer

SCHOOL OF EDUCATION

LIU Brooklyn's School of Education prepares teachers, counselors, administrators and school psychologists for the challenges and the rewards of working in urban settings. Many of our students and faculty members are themselves urban dwellers, immigrants, or members of ethno-linguistic and racial groups, who bring diverse perspectives to the classroom environment. Graduates of our programs acquire the experiential knowledge that is essential for interacting with and guiding children and families in urban communities. All specialties, undergraduate and graduate, within the Teacher Education Program are accredited by the Teacher Education Accreditation Council (TEAC).

Through rigorous and stimulating programs of study, students have the opportunity to work in urban schools and in a broad range of educational and/or mental health settings to: develop an inquiry stance toward practice; integrate theory and practice; and achieve high standards of practice.

Our programs are designed to ensure that our graduates keep pace with changes and innovations in teaching and in counseling. The School's **KEEPS Mission**, its urban location and its nationally recognized faculty, make it an exciting place to study.

Structures Within the School of Education

The School of Education comprises two departments: Teaching, Learning and Leadership (TLL) and Counseling and School Psychology (CSP) departments. These departments provide educational opportunities leading to rewarding careers serving urban youth and families. TLL offers undergraduate and graduate degree programs in multiple teacher certification areas and educational leadership. CSP offers graduate programs in school counseling, mental health counseling, marriage and family therapy, and school psychology. Our professors are experts in these fields, with a range of experience that enables them to bring best practices into the classroom. All programs incorporate fieldwork throughout the curriculum and draw upon long-term relationships with schools and organizations in New York City that offer placements that are well suited to students' needs and interests. Please consult the sections below describing in detail each department and its offerings.

For information, please contact the Dean's Office at 718-488-1055, fax 718-488-3472, or visit the website at www.liu.edu/brooklyn/soe. Find us on Facebook at www.facebook.com/groups/LIU.SOE.BK.

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KEEPS: The School of Education's Mission Statement

The KEEPS mission statement of LIU Brooklyn's School of Education addresses one of the most important questions in urban education today: How can urban educators be expertly prepared to meet rising academic standards while recognizing the unique experiences and strengths of urban schools and their children? One of the many strengths of the School of Education is that many of its future and practicing educators are themselves urban dwellers, immigrants, or members of ethno-linguistic and racial minorities. Thus, many of its educators bring to the classroom the experiential knowledge of urban and minority communities, essential to educating the children and families in those communities. The KEEPS mission is designed to help all urban educators meet rising academic standards, while also meeting performance standards that are based on the experiences and life of urban schools and their children.

KEEPS MISSION IN BRIEF

KEEPS: The desired qualities of LIU Brooklyn Educators

To carry on the important mission of the LIU Brooklyn School of Education, we value:

KNOWLEDGE and intellectual inquisitiveness about children, schools and the world.

ENQUIRY, or the collective discipline of observation, reflection, and non-judgmental description of children and their schoolwork, as well as descriptive inquiry of teaching and professional practice.

EMPATHY that rests on the human uniqueness and capacity to develop, as well as responsiveness to the needs and interests of urban learners and communities.

PLURALISM and attention to differences and to inclusion of all in the learning community of schools and the wider community.

SOCIAL COMMITMENT and the building of a just and democratic society.

KEEPS MISSION IN DEPTH

KNOWLEDGE and intellectual inquisitiveness about children, schools and the world.

LIU Brooklyn educators are intellectually rooted in the liberal arts, sciences, and pedagogy. We value knowing about the world, its people, languages and cultures, its natural and physical aspects, and its texts. We attach special importance to how to use that knowledge to teach others and work with urban children and adolescents in schools.

The curriculum of the School of Education advances this value by deepening the understanding acquired in liberal arts and sciences general education and major courses and contextualizing that knowledge through the world of schools and that of their clients -- children and adolescents, families, as well as teachers and other school professionals. Foundational courses are

interdisciplinary, attempting to deepen the multifaceted knowledge needed in the acts of teaching and learning, as well as spurring the dynamic and simultaneous use of interdisciplinary knowledge required in educating children.

LIU Brooklyn educators are interested in reading closely and writing carefully and extensively, and they understand that in doing so, they are constructing and developing their own knowledge about texts and the world, about the students with whom they work and the communities from which they come, and about schools and classrooms. Varied modes of writing and discussing are used throughout the curriculum to generate deep knowledge of academic texts, children and learners, teaching practice, and one another. Technology is used to increase connections and interrelatedness and thus support the construction of knowledge.

We value knowledge constructed over time and thus collect our work and that of the students with whom we work longitudinally. We actively use our collections of work to deepen reflection and generate knowledge. We're responsible thinkers, capable of reflecting on our own work, forming our own opinions, and using our knowledge to act independently in socially responsible ways.

ENQUIRY or the collective discipline of observation, reflection, and non-judgmental description of children and their school work, as well as descriptive inquiry of teaching and professional practice.

LIU Brooklyn educators value being active inquirers, curious about social and natural phenomena, able to imagine, and to invent. We're seriously reflective, and take time to study, reflect on words and texts, observe, research, collect work. We observe learners and their work closely and are able to describe them accurately while withholding judgment. We also value description and reflective review of our own teaching practice. We attach great importance to our ability as a group to inquire collectively into these matters and to include the voices of all members of the learning community, regardless of rank or function. We value acknowledging the range of attitudes, beliefs, experiences, knowledge and lenses of the group involved in the collective inquiry, and we look for the common threads as community is shaped. We use our collective inquiry to shape community and to create knowledge as a base for action, review, and constant regeneration and transformation.

The School of Education's curriculum includes specific courses that develop the foundational discipline of collective descriptive inquiry as it applies to children, classrooms, and schools, and it provides ample opportunity to practice descriptive inquiry both in college classrooms and in schools. We read the best literature available, supporting the development of educators' habits of being active inquirers, remaining "wide awake" in the words of Maxine Greene, being attentive to differences, and being able to withhold judgment.

This creates an inclusive space with an expanded range of possibilities, enabling our capacity both to act and to transform.

LIU Brooklyn educators are comfortable with inquiry and persevere with questions. We extend what learners bring by asking questions that widen their horizons of knowledge and experiences. We set up and construct learning contexts that stimulate active learning and the learner's curiosity, inquisitiveness and imagination. The Learning Center for Educators and Families (LCEF) provides experiences working with children and teachers in curriculum-related tasks, imagining, inventing, and investigating. LCEF also provides opportunities to conduct observations of student practice and to carry out research on the learning and development of children, adolescents and adults.

EMPATHY that rests on the human uniqueness and capacity to develop, as well as responsiveness to the needs and interests of urban learners and communities. LIU Brooklyn educators know that no two students are identical, as each person comes with his or her own world of experiences and beliefs, innate talents and learned skills. We believe in the potential of all students and seek to help students build on their strengths and abilities. We are deeply committed to the idea that all learners are capable of reaching their own unique potential. As empathic and caring educators, we are interested in attending to each individual student. To accomplish the goal of helping individual students grow, we seek to understand the unique perspectives and backgrounds of our students and their social context, and work within their frames of reference to help them accomplish what they seek. The curriculum of the School of Education uses collective inquiry, collaborative group work, and interactive dialogue journals to create a caring community of learners. From the very beginning, the curriculum includes field-based practices with individual children and families, building up the close familiarity that is required for empathy.

The curriculum also develops students' ethnographic skills to study communities and to build transcultural understanding and empathy.

PLURALISM and attention to differences and to inclusion of all in the learning community of schools and in the wider community.

LIU Brooklyn educators value the sociocultural and sociolinguistic pluralism of a global world, and especially of New York City's children and communities. We strive to acquire the different experiential knowledge bases that diverse communities have, to find commonalities in the human experience, and to shape a transcultural learning context, a third space, that is inclusive of differences. We attach importance to understanding the sociohistorical and sociocultural contexts of diverse groups, most especially of African-American, Caribbean-American, Latino and recent immigrant communities that are prominent in Brooklyn schools, and we use this

knowledge in teaching. We also value ethnographic processes of observation and participation that enable us to gain understanding of the complex and dynamic pluralism of communities.

The curriculum of the School of Education advances this value by recognizing ethnic, racial, gender, language, and ability differences, and by framing issues of child development, language and literacies, and teaching and learning within sociocultural and sociohistorical contexts. All courses in the School of Education's curriculum pay particular attention to the education of learners with disabilities and those who are bilingual, bidialectal, or learning English. While developing knowledge of specific skills and approaches needed to educate different groups of learners, for different purposes, and in different contexts, we also develop strategies for inclusion of all learners.

SOCIAL COMMITMENT and the building of a just and democratic society.

LIU Brooklyn educators are committed to making sure that all students, regardless of race, class, gender, language, sexual orientation or abilities, receive equitable educational services. We value the importance of inclusion in education and the merits of children from diverse educational and ethnic backgrounds learning together. We understand the relationship between our educational and social roles, as we advocate for children and learners and the transformation of classrooms and schools, toward the building of a better and more just world. In addition, we require that students demonstrate academic integrity, professional responsibility and ethical behavior in their scholarship and practice.

The School of Education's curriculum has strong field-based practices and develops democratic plural communities of learners and educators who are actively engaged in the transformation of urban schools and classrooms. The curriculum prepares educators for social action, empowering them to transform practices, curricula, and schools, so as to build a more just world.

School of Education Resources

Learning Center for Educators & Families (LCEF)

The Learning Center for Educators & Families (LCEF) is the off-campus extension of LIU Brooklyn's School of Education. LCEF provides a supportive environment for prospective and practicing teachers, which allows them to hone their skills. In service of these aims, LCEF provides meeting space for the School of Education faculty and for groups of teachers from the NYC schools to collaborate and work on various projects together. Classrooms at LCEF are designed as flexible spaces for hands-on collaborative learning.

LCEF has a state of the art computer lab as well as Smart Boards thus enabling faculty and students

to use technology in a meaningful way in their own studies as well as developing relevant curriculum for their own classrooms.

The Family University (FUN) After School Program for the children of LIU Brooklyn students is housed at LCEF and provides a setting for teacher education students to see creative arts and community building activities in action. It is used as a fieldwork site for students in education, social work, music and art departments. The children's presence in the building alongside the teacher education students serves as a reminder that theory and practice can be integrated.

Center for Urban Educators (CUE)

The mission of the Center for Urban Educators (CUE) is the reform of urban teacher education. The vision of teaching and schools guiding the Center's work is one that supports teachers as socially responsible people who are intellectually engaged and act as advocates of children, parents, and their communities. The Center works within the School of Education of LIU Brooklyn and in partnership with New York City public schools.

CUE's core values are beliefs in human capacity and worth and in the importance of educating for democracy. The Center puts diverse perspectives and experiences alongside each other with the aim of getting beyond convention and creating new possibilities for teaching. In order to create these opportunities, CUE supports educators' use of observation, description, and story as ways of generating understanding out of the lived experiences of teaching and learning. CUE incorporates descriptive inquiry to enact its values.

In its efforts to further its mission, CUE has developed a multifaceted community of future teachers, university professors, and teachers and administrators in public schools. CUE works with New York City public schools, forms collaborations with educators both within and beyond LIU Brooklyn and supports publications and the annual CUE conference.

The Teacher Resource Center

The Teacher Resource Center (located at LCEF) is part of LIU Brooklyn's School of Education. The Teacher Resource Center was created to provide the resources and workshops to help new teachers feel more successful in their classrooms. Materials are available to instructors as well.

The Center, open Monday through Thursday, from 3 p.m. to 7 p.m. (Fall/Spring/Summer semesters), welcomes students and instructors to come in and browse, get work done, use the computers, have a cup of tea or coffee, and meet with other teachers.

TEACHING, LEARNING AND LEADERSHIP

Professors Kesson (chair), Rivera, Traugh (Dean)
Professors Emeriti Berkowitz, Kazlow, Long,
Nathanson, Pascale.

Associate Professors Bains, Dyasi, Lava, Lehman,
Lemberger, Munn-Joseph

Associate Professor Emeriti Floyd, Zinar
Assistant Professors Black, Harris, Pregot,
Salloum

Instructors McLaughlin, Walsh, Watson
Adjunct: 30

The Department of Teaching, Learning and Leadership offers several majors at the undergraduate level, all leading to NYS teaching certification. All majors emphasize hands-on learning in a multicultural context. Classes are small, fostering an atmosphere of inquiry and reflection. Fieldwork and student teaching placements are in partner schools especially selected for excellence and diversity. With our emphasis on practice, students are out in the schools – observing, learning and doing – from the very beginning.

The following majors are offered:

- B.S., Adolescence Urban Education (7-12) in Biology, Chemistry, or Mathematics
- B.A., Adolescence Urban Education (7-12) in English, Social Studies, or Spanish
- B.S., Adolescence/Middle Childhood Urban Education (5-12) in Biology, Chemistry, or Mathematics
- B.A., Adolescence/Middle Childhood Urban Education (5-12) in English, or Social Studies
- B.S., Childhood Urban Education (1-6)
- B.S., Teacher of Physical Education in Urban Schools (all grades)
- B.F.A., Teacher of Visual Arts in Urban Schools (all grades)
- B.S., Music Education in Urban Schools (all grades)

An optional extension in Middle Childhood Education (Grades 7-9) in English, Biology, Chemistry, Math or Social Studies is available for majors in Childhood Education.

An optional extension in Bilingual Education is available for majors in Childhood Education.

Students planning to teach at an elementary school level must major in Childhood Urban Education and have a concentration or second major in one of the accepted liberal arts and sciences areas. Childhood Education must be their first major.

Students planning to be teachers of physical education must major in Physical Education. The program includes courses in physical education and sports sciences in addition to selected courses in Teaching and Learning.

Students planning to be teachers of art or music education complete majors in the Department of Visual Arts and the Department of Music respectively along with specified courses in

Teaching and Learning.

Requirements applicable to all the majors are described below in Core Program in Teacher Education. Specific descriptions of the majors may be found in the following section: Program Options in Teacher Education.

Core Program in Teacher Education

Admission and Progression

To enter any undergraduate program in Teaching and Learning, students must first be admitted to the LIU Brooklyn, either as a freshman or as a transfer student. Students generally begin their teach education program in the second semester of their sophomore year. Students may, however, take the first course, TAL 201, starting in the second semester of their freshman year.

The undergraduate program in teacher education is divided into a pre-professional and a professional stage. All students are accepted into the pre-professional stage, consisting of the first 6 credits:

- TAL 201 Teaching: Imagine the Possibilities
- TAL 301 Observing and Describing Children or
- TAL 302 Observing and Describing Adolescents

In order to move from the Pre-Professional Stage to the Professional Stage, students must have:

1. Completed a minimum of 66 general college credits with an overall minimum grade point average of 2.5;
2. TAL undergraduate majors must adhere to the liberal arts and sciences proficiency and core requirements, except for the following modifications:
Mathematics 10, 11z and 12z are required;
The natural science requirement is as follows:
Childhood
Physics 20, Chemistry 21, and Biology 22
Physical Education
Biology 3, Biology 4 and Biology 131
3. Successfully completed any required mathematics and English courses;
4. Achieved a minimum 3.0 average in the pre-professional TAL courses.

Students seeking to move from the pre-professional stage are reviewed by faculty to make sure that they meet these requirements. Students in the professional stage are reviewed at the end of each semester to ensure that they are maintaining a minimum 3.0 G.P.A. in their TAL courses. They are also expected to gradually raise their overall G.P.A. to at least 2.67, which is required for admission to student teaching. Students who fail to meet progression requirements and who are not favorably reviewed are subject to probation or dismissal from the program.

During the professional stage students must take and pass the Academic Literacy Skills Test

(ALST); this is a prerequisite to student teaching. The TLL Department holds workshops to prepare students for the exam.

Fieldwork and Student Teaching

Fieldwork is required in almost all undergraduate TAL courses. It is also a NYS requirement for teacher certification. Fieldwork is designed to give students the opportunity to apply the concepts and skills from TAL classes in a real-world setting and to help prepare them for student teaching.

Students must complete all required fieldwork to get a passing grade in a TAL course.

In order to complete fieldwork requirements, students should plan to have at least one day a week available each semester to be in a school placement during school hours. Fieldwork placements are arranged during the first week of the semester by the Fieldwork Coordinator, Paraprofessionals currently working in schools may be able, depending on circumstances, to complete their fieldwork in their place of employment.

Student teaching is usually completed during the last semester of the senior year. It is a full-time, 9-credit experience that consists of all-day student teaching, selected courses in TAL and the student teaching seminar. Students work in the classroom under the supervision of a cooperating teacher and are evaluated by a LIU faculty supervisor.

Students must apply for admission to student teaching during the previous semester. To be admitted to student teaching, students must have:

1. Completed at least 100 credits with an overall grade point average of 2.67;
2. Completed all prerequisite TAL courses with at least a 3.0 average.
3. Passed the Academic Literacy Skills Test (ALST) of the New York State Teacher Certification Exam (NYSTCE)
4. Attended an Orientation session with the Director of Field Experiences and School Relations.
5. Completed an interview with a faculty member and received a positive reference from a professor.

Graduation and Certification

To graduate with a major in Teaching and Learning students must have:

1. Completed a minimum of 128 credits with an overall G.P.A. of at least 2.67
2. Completed all program requirements including student teaching and a passing score on the ALST.
3. ALCX 702, ALCX 703, ALCX 704 & ALCX 705

In order to qualify for initial student teaching certification, students must:

1. Meet all the graduation requirements as stated above,
2. Complete state-mandated training in child abuse identification and reporting, school violence prevention, fire-safety, substance

abuse prevention, and abduction prevention,
 3. Complete all required portions of the NYSTCE,
 4. Be a U.S. citizen or sign a Declaration of Intent
 The following sections of the New York State Teacher Certification Exam are required for teaching certification:

1. Academic Literacy Skills Test (ALST)
2. Educating All Students Test (EAS)
3. Content Specialty Test (CST) in the student’s certification area. (Candidates in Childhood Education must pass the Multi-Subject CST.)
4. For students seeking a Bilingual Extension, the Bilingual Education Assessment (BEA) in the target language of instruction.

Students complete state-mandated trainings through the following workshops offered in collaboration with the School of Continuing Studies:

- ALCX 702 - Child Abuse Identification and Reporting
 - ALCX 703 - Violence Prevention
 - ALCX 704 - Fire Safety, Substance Abuse, and Abduction Prevention
 - ALCX 705 - Harassment, Bullying and Discrimination Prevention and Intervention
- After granting initial certification, the NYSED allows five more years for candidates to complete requirements for professional certification, which include the following:

1. Master’s degree in Education or in a related liberal arts and sciences subject;
2. One year of full-time mentored teaching experience and two additional years of teaching experience.

The School of Education Certification Officer assists students in obtaining certification when all the requirements have been met.

Program Options in Teacher Education

B.S. in Childhood Urban Education (1-6); Optional Extension in Bilingual Education; Optional Extension in Middle Childhood (7-9)

The 128-credit B.S. in Childhood Urban Education (Grades 1-6) leads to the degree of Bachelor of Science and eligibility for initial NYS certification in childhood education, grades 1-6. It prepares students to teach in elementary school classrooms.

The major in Childhood Urban Education consists of 40 credits in teaching and learning. Optional extensions are available for students interested in teaching in middle schools (6 credits) or in bilingual classrooms (7 credits).

In addition, all Childhood students must select a 30-credit concentration or a second major in a

liberal arts and sciences area from among the following:

- Biology
- Chemistry
- Math
- English
- History
- Humanities
- Foreign Languages and Literature
- Psychology
- Social Sciences

Students should consult with a TAL advisor regarding requirements for the concentration. If choosing a double major, students must select Childhood Urban Education as their first major. The requirements for the second major can be found in the relevant department’s section of the bulletin.

An optional extension in Middle Childhood Urban Education (6 credits) is available for students who wish to teach one of the content areas (Biology, Chemistry, English, Math, or Social Studies) at the middle school level. Students interested in the middle childhood extension must have at least 30 credits in their chosen content area. An optional extension in Bilingual Education (7 credits) prepares students to teach in bilingual classrooms.

The Childhood Urban Education program is divided into a pre-professional stage and a professional stage. All students are welcome to take six credits of pre-professional courses. Students must meet the requirements for progression into the professional stage, completion of fieldwork hours, admission to student teaching and graduation that are described in the previous section, Core Program in Teacher Education. Students graduating from the program are eligible for NYS certification once they have passed all required portions of the New York State Teacher Certification Exam (NYSTCE). The School of Education Certification Officer assists students in applying for certification when all requirements are met.

B.S., Childhood Urban Education (1-6)

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits
Social Sciences	
History	6 credits

Social Sciences 3 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Laboratory Science 10 credits
 (BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

Major Requirements

All of the following courses are required.

TAL 201	Teaching: Imagine the Possibilities	3.00
TAL 301	Observing and Describing Children	3.00
TAL 350	The Developing Child	4.00
TAL 351	Language and Literacy I	3.00
TAL 352	Sociology and Education	3.00
TAL 353	Creating Inclusive Classroom Communities	3.00
TAL 401	Language and Literacy II	3.00
TAL 402	Teaching and Learning Social Studies in Elementary Schools	3.00
TAL 403	Teaching and Learning Mathematics/ Technology in Elementary Schools	3.00
TAL 404	Teaching and Learning Science/ Technology in Elementary Schools	3.00
TAL 450	Student Teaching in Childhood Education	6.00
TAL 451	Student Teaching Seminar in Childhood Education	3.00

Areas of Specialization for B.S. in Childhood Urban Education

Students must complete 30 credits in one of the following areas:

- Biology
- Chemistry
- Math
- English
- History
- Humanities
- Foreign Languages and Literature
- Psychology
- Social Science

See your TLL Department Advisor for information on choosing courses that meet the concentration requirements.

Optional Extension in Bilingual Education (7 credits)

An optional Bilingual Extension is available for those who can demonstrate bilingual proficiency. To qualify, students must take the following

courses before student teaching:

- Teaching and Learning 356 - Bilingualism, Bilingual Education and Multiculturalism (3 credits)
 - Teaching and Learning 417 - Teaching in the Native Language (2 credits)
 - Teaching and Learning 418 - Teaching in English in Bilingual Classrooms (2 credits)
- Students seeking the Bilingual Education extension must also pass the Bilingual Education Assessment (BEA) of the NYSTCE in the target language.

Optional Extension in Middle Childhood (5-9) (6 credits)

To qualify for a Middle Childhood Extension to the Childhood Certification, students must take the following six credits before student teaching:

- Teaching and Learning 400 - The developing Adolescent (3 credits)
- Teaching and Learning 408 - Middle School Curriculum (3 credits)

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 40 credits
 Minimum Total Area of Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Education Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence & Middle Childhood Urban Education (5-12), Biology

B.S., Adolescence & Middle Childhood Urban Education (5-12), Biology

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits
Social Sciences	
History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	3 credits
Science and Mathematics	
Mathematics	3-4 credits

Laboratory Science 10 credits
 (BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

Major Requirements

TAL 201	Teaching: Imagine the Possibilities	3.00
TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 350	The Developing Child	4.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00
TAL 406	Health Education for Teachers	1.00
TAL 408	Middle Childhood Curriculum	3.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00
TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 414	Teaching and Learning Science/Technology in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 38 credits
 Minimum Total Biology Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence & Middle Childhood Urban Education (5-12), Chemistry

B.S., Adolescence & Middle Childhood Urban Education (5-12), Chemistry

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits
Social Sciences	
History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	3 credits
Science and Mathematics	
Mathematics	3-4 credits
Laboratory Science (BIO, CHEM, and PHY)	10 credits
Communication, Visual & Performing Arts	
Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	3 credits

Major Requirements

TAL 201	Teaching: Imagine the Possibilities	3.00
TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 350	The Developing Child	4.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00
TAL 406	Health Education for Teachers	1.00
TAL 408	Middle Childhood Curriculum	3.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00

TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 414	Teaching and Learning Science/Technology in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 38 credits
 Minimum Total Chemistry Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.A. in Adolescence & Middle Childhood Urban Education (5-12), English

B.A., Adolescence and Middle Childhood Urban Education (5-12), English

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language 6 credits

Social Sciences

History 6 credits
 Social Sciences 3 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Laboratory Science 10 credits
 (BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

Major Requirements

TAL 201	Teaching: Imagine the Possibilities	3.00
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TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 350	The Developing Child	4.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00
TAL 406	Health Education for Teachers	1.00
TAL 408	Middle Childhood Curriculum	3.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00
TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 411	Teaching and Learning English Language Arts in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 96 credits
 Minimum Total Major Credits: 38 credits
 Minimum Total Mathematics Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence & Middle Childhood Urban Education (5-12), Mathematics

B.S., Adolescence & Middle Childhood Urban Education (5-12), Mathematics

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits

Philosophy	6 credits
Foreign Language	6 credits

Social Sciences

History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	3 credits

Science and Mathematics

Mathematics	3-4 credits
Laboratory Science (BIO, CHEM, and PHY)	10 credits

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	3 credits

Major Requirements

TAL 201	Teaching: Imagine the Possibilities	3.00
TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 350	The Developing Child	4.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00
TAL 406	Health Education for Teachers	1.00
TAL 408	Middle Childhood Curriculum	3.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00
TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 413	Teaching and Learning Mathematics/Technology in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 38 credits
 Minimum Total Mathematics Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.A. in Adolescence & Middle Childhood Urban Education (5-12), Social Studies

B.A., Adolescence & Middle Childhood Urban Education (5-12), Social Studies

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 10 credits

(BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

All of the following courses are required.

TAL 201 Teaching: Imagine the Possibilities 3.00

TAL 251 Students with Special Needs 3.00

TAL 302 Observing and Describing Middle Childhood and Adolescent Learners 3.00

TAL 350 The Developing Child 4.00

TAL 352 Sociology and Education 3.00

TAL 400 The Developing Adolescent 3.00

TAL 401 Language and Literacy II 3.00

TAL 406 Health Education for Teachers 1.00

TAL 408 Middle Childhood Curriculum 3.00

TAL 421 Language & Literacy III: The Adolescent Learner 3.00

TAL 460 Student Teaching in Adolescence Education 3.00

TAL 461 Student Teaching Seminar in Adolescence Education 3.00

TAL 412 Teaching and Learning Social Studies in Middle and Secondary Schools 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 38 credits

Minimum Total Biology Specialization: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence Urban Education – Biology

B.S., Adolescence Urban Education (7-12), Biology

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 10 credits

(BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

TAL 201 Teaching: Imagine the Possibilities 3.00

TAL 251 Students with Special Needs 3.00

TAL 302 Observing and Describing Middle Childhood and Adolescent Learners 3.00

TAL 352 Sociology and Education 3.00

TAL 400 The Developing Adolescent 3.00

TAL 401 Language and Literacy II 3.00

TAL 406 Health Education for Teachers 1.00

TAL 421 Language & Literacy III: The Adolescent Learner 3.00

TAL 460 Student Teaching in Adolescence Education 3.00

TAL 461 Student Teaching Seminar in Adolescence Education 3.00

TAL 414 Teaching and Learning Science/Technology in Middle and Secondary Schools 3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 30 credits

Minimum Total Biology Specialization: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence Urban Education – Chemistry

B.S., Adolescence Urban Education (7-12), Chemistry

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 10 credits

(BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
(ART, DNC, MUS, THE)

Major Requirements

TAL	201	Teaching: Imagine the Possibilities	3.00
TAL	251	Students with Special Needs	3.00
TAL	302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL	352	Sociology and Education	3.00
TAL	400	The Developing Adolescent	3.00
TAL	401	Language and Literacy II	3.00
TAL	406	Health Education for Teachers	1.00
TAL	421	Language & Literacy III: The Adolescent Learner	3.00
TAL	460	Student Teaching in Adolescence Education	3.00
TAL	461	Student Teaching Seminar in Adolescence Education	3.00
TAL	414	Teaching and Learning Science/Technology in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 31 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.A. in Adolescence Urban Education – English

B.A., Adolescence Urban Education (7-12), English

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language 6 credits

Social Sciences

History 6 credits
 Social Sciences 3 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Laboratory Science 10 credits
 (BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

Major Requirements

All of the following courses are required:

TAL	201	Teaching: Imagine the Possibilities	3.00
TAL	251	Students with Special Needs	3.00
TAL	302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL	352	Sociology and Education	3.00
TAL	400	The Developing Adolescent	3.00
TAL	401	Language and Literacy II	3.00
TAL	406	Health Education for Teachers	1.00
TAL	421	Language & Literacy III: The Adolescent Learner	3.00
TAL	460	Student Teaching in Adolescence Education	3.00
TAL	461	Student Teaching Seminar in Adolescence Education	3.00
TAL	411	Teaching and Learning English Language Arts in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 31 credits
 Minimum Total Biology Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Adolescence Urban Education – Mathematics

B.S., Adolescence Urban Education (7-12), Mathematics

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language 6 credits

Social Sciences

History 6 credits
 Social Sciences 3 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Laboratory Science 10 credits
 (BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts 3 credits
 (ART, DNC, MUS, THE)

Major Requirements

TAL	201	Teaching: Imagine the Possibilities	3.00
TAL	251	Students with Special Needs	3.00
TAL	302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL	352	Sociology and Education	3.00
TAL	400	The Developing Adolescent	3.00
TAL	401	Language and Literacy II	3.00
TAL	406	Health Education for Teachers	1.00
TAL	421	Language & Literacy III: The Adolescent Learner	3.00
TAL	460	Student Teaching in Adolescence Education	3.00
TAL	461	Student Teaching Seminar in Adolescence Education	3.00

TAL 413	Teaching and Learning Mathematics/Technology in Middle and Secondary Schools	3.00
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Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 31 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.A. in Adolescence Urban Education – Social Studies

B.A., Adolescence Urban Education (7-12), Social Studies

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
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Humanities

English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits

Social Sciences

History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	3 credits

Science and Mathematics

Mathematics	3-4 credits
Laboratory Science (BIO, CHEM, and PHY)	10 credits

Communication, Visual & Performing Arts

Speech	3 credits
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Major Requirements

All of the following courses are required:

TAL 201	Teaching: Imagine the Possibilities	3.00
TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00

TAL 406	Health Education for Teachers	1.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00
TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 412	Teaching and Learning Social Studies in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 31 credits
 Minimum Total Biology Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.A. in Adolescence Urban Education – Spanish

B.A., Adolescence Urban Education (7-12), Spanish

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
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Humanities

English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	6 credits

Social Sciences

History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	3 credits

Science and Mathematics

Mathematics	3-4 credits
Laboratory Science (BIO, CHEM, and PHY)	10 credits

Communication, Visual & Performing Arts

Speech	3 credits
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Major Requirements

All of the following courses are required:

TAL 201	Teaching: Imagine the Possibilities	3.00
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TAL 251	Students with Special Needs	3.00
TAL 302	Observing and Describing Middle Childhood and Adolescent Learners	3.00
TAL 352	Sociology and Education	3.00
TAL 400	The Developing Adolescent	3.00
TAL 401	Language and Literacy II	3.00
TAL 406	Health Education for Teachers	1.00
TAL 421	Language & Literacy III: The Adolescent Learner	3.00
TAL 460	Student Teaching in Adolescence Education	3.00
TAL 461	Student Teaching Seminar in Adolescence Education	3.00
TAL 415	Teaching and Learning a Language Other Than English in Middle and Secondary Schools	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 31 credits
 Minimum Total Biology Specialization: 30 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

Physical Education in Urban Schools

The 128-credit B.S. in Teacher of Physical Education in Urban Schools (Pre-K-Grade 12) leads to the degree of Bachelor of Science and eligibility for initial NYS certification in physical education, pre-kindergarten to grade 12. It prepares students to teach physical education at any grade level.

The major in Physical Education consists of 34 credits in Physical Education and Sports Sciences and 30 credits in Teaching and Learning, including student teaching. Students may begin their physical education coursework in their freshman year. They are encouraged to seek guidance from the PE program coordinator and TLL advisor as early as possible in their program.

The program is divided into a pre-professional stage and a professional stage. All students are welcome to take 6 credits of pre-professional courses. Students must meet the specific requirements for progression into the professional stage, completion of fieldwork hours, admission to student teaching, and graduation that are described

in the previous section, Core Program in Teacher Education.

Students graduating from the program are eligible for NYS certification once they have passed all required portions of the New York State Teacher Certification Exam (NYSTCE). The School of Education certification officer assists students in applying for certification when all requirements are met.

B.S. in Teacher of Physical Education in Urban Schools

B.S., Teacher of Physical Education in Urban Schools

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 10 credits

(BIO, CHEM, and PHY)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits

(ART, DNC, MUS, THE)

Major Requirements

The following courses are required:

PE/ 17 Teaching Movement and 1.00
SPS Dance for Children

PE/ 21 Sport, Functional 2.00
SPS Training and Performance
I

PE 23 Teaching Individual and 3.00
Team Sports I

PE 24 Teaching Individual & 3.00
Team Sports II

PE/ 140 CPR/ First Aid / Safety 3.00
SPS

PE/ 150 Motor Learning 3.00
SPS

PE/ 151 Functional Kinesiology 3.00
SPS

PE/ 152 Exercise Physiology I 3.00
SPS

PE/ 154 Adapted Physical 3.00
SPS Education I

PE/ 156 Evaluation in Health and 3.00
SPS Fitness

SPS/ 98 Beginning Weight 1.00
PE Training

SPS/ 116 Beginning Karate 1.00
PE

SPS/ 148 Nutritional Aspects of 3.00
PE Fitness and Sport

SPS/ 190 Neuroscience 3.00
PE

Teaching and Learning courses required:

TAL 201 Teaching: Imagine the 3.00
Possibilities

TAL 301 Observing and Describing 3.00
Children

TAL 350 The Developing Child 4.00

TAL 351 Language and Literacy I 3.00

TAL 352 Sociology and Education 3.00

TAL 471 Teaching Physical 3.00
Education Pre-K - Grade
6

TAL 476 Teaching Physical 3.00
Education to Adolescents

TAL 490 Student Teaching in 6.00
Physical Education

TAL 491 Student Teaching 2.00
Seminar in Physical
Education

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:
64 credits

Minimum Total Major Credits: 30 credits

Minimum Total Physical Education

Specialization: 35 credits

Minimum Credits Above 100 Level Courses: 48
credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

B.F.A. in Teacher of Visual Arts in Urban Schools

The 128-credit B.F.A. in Teacher of Visual Arts in Urban Schools (Grades K through 12) leads to the degree of Bachelor of Fine Arts and eligibility for Initial NYS certification in Visual Arts Education, kindergarten to grade 12. It prepares students to teach art at any grade level.

The program of study in visual art education includes a full major in the Department of Visual Arts with selected courses in teacher education,

including 6 credits of methods courses cross-listed as TAL and Art.

The program is divided into a pre-professional stage and a professional stage. All students are welcome to take six credits of pre-professional courses. Students must meet the specific requirements for progression into the professional stage, completion of fieldwork hours, admission to student teaching and graduation that are described in the previous section, Core Program in Teaching and Learning.

Students graduating from the program are eligible for NYS certification once they have passed all required portions of the New York State Teacher Certification Exam (NYSTCE). The School of Education Certification Officer assists students in apply for certification when all requirements are met.

B.S. in Music Education in Urban Schools (Pre-K-Grade 12)

The 128-credit B.S. in Music Education in Urban Schools (Pre-K-Grade 12) leads to a Bachelor of Science degree and eligibility for initial NYS certification in Music Education, pre-kindergarten to grade 12. It prepares students to teach music at any grade level.

The program of study in music education includes a full major in the Department of Music with selected courses in teacher education, including 6 credits of methods courses cross-listed as TAL and music.

The program is divided into a pre-professional stage and a professional stage. All students are welcome to take 6 credits of pre-professional courses. Students must meet the specific requirements for progression into the professional stage, completion of fieldwork hours, admission to student teaching, and graduation that are described in the previous section, Core Program in Teacher Education.

Students graduating from the program are eligible for NYS certification once they have passed all required portions of the New York State Teacher Certification Exam (NYSTCE). The School of Education Certification Officer assists students in applying for certification when all requirements are met.

Teaching, Learning and Leadership Courses

TAL 201 Teaching: Imagine the Possibilities

An introduction for the preprofessional student to the possibilities and processes of professional life in diverse inclusive urban schools through initial exploration of school contexts, learning processes, roles of teachers, and the self as a prospective teacher. Guided school visits, reflective writings, and seminal readings enable students to examine the field of education from historical, sociological and philosophical perspectives. Selected Teaching and Learning faculty discuss such current trends as multiculturalism and the inclusion of students with disabilities. For all students considering teaching as a career choice. Fifteen hours of structured fieldwork required.

Credits: 3

Every Fall and Spring

TAL 250 Developmental Psychology

An introductory study of the physical, cognitive, social, language, emotional, and moral development of children, adolescents, and adults from birth through the lifespan. The relationship between learning and development and the factors that may hinder or enhance these processes are explored. Throughout the course, attention is given to the ways in which race, culture, ethnicity, language, class, gender, sexual orientation, and disability play a role in the teaching and learning process.

Credits: 3

Annually

TAL 251 Students with Special Needs

An introduction to the historical and legislative background of exceptionality and special education. An overview is presented of behavioral characteristics and special educational needs of students who are exceptional in sensorimotor, cognitive, social-emotional and linguistic development. Attention is given to implications for teaching and learning, identification, referral, IEP implementation, parent collaboration, and classification and organization for instructional purposes. Guided fieldwork experience is required.

Credits: 3

Annually

TAL 301 Observing and Describing Children

An introduction to a holistic method of observing and reflecting on children. Throughout the semester, students observe a child in home, school and community settings; this descriptive review process has as its philosophical foundation the premise that children construct knowledge and make meaning of their world. Students learn a descriptive vocabulary and the skills necessary to write a full and balanced portrayal of a learner that becomes fundamental to their teaching practice. Thirty hours of structured fieldwork are required.

The pre-requisite of TAL 201 is required.

Credits: 3

Every Fall and Spring

TAL 302 Observing and Describing Middle Childhood and Adolescent Learners

An exploration of the world of the middle childhood/adolescent learner using naturalistic inquiry methods such as participant observation and interviews in a variety of settings, including school, home and community. This descriptive review process has as its philosophical foundation the premise that all learners construct knowledge and make meaning within a sociocultural context. Students learn a descriptive vocabulary and the skills necessary to write a full and balanced portrayal of a learner that becomes fundamental to their teaching practice. Thirty hours of structured fieldwork are required.

The pre-requisite of TAL 201 is required.

Credits: 3

Annually

TAL 350 The Developing Child

An introductory examination of the process of change from birth through pre-adolescence in children from diverse backgrounds with a range of abilities. Theories of development and learning and ways in which they inform educational practices will be studied. Throughout the course, attention will be given to ways in which culture, race, class, ethnicity, gender; sexual orientation, language, and disability play a role in development and in the teaching and learning process. The course will also explore the lives of children who have disabilities from historical, legislative, educational, and autobiographical perspectives. The classification process in schools including how students are identified to have disabilities will be addressed. Students will have fieldwork experiences with children and will engage in different types of course assignments to develop discipline-specific writing skills. Writing-intensive course for the major. Fifteen hours of structured fieldwork required.

The pre-requisite of TAL 301 or 302 is required and a minimum GPA of 2.50.

Credits: 4

Annually

TAL 351 Language and Literacy I

A focus on emergent literacy, emphasizing the teaching of reading from a developmental socio-psycholinguistic perspective and highlighting the relationship between language and literacy. Different theories of teaching reading and writing are discussed. Students become familiar with appropriate literature for young children as well as the concept of multiple literacies. Special attention is given to developing strategies to meet individual learning needs within a collaborative and inclusive model, including the needs of children with disabilities, bilingual students and English-language learners. The role of assessment in planning instruction is also addressed. An integrated fieldwork experience includes the home,

community and classroom teaching environments. Fifteen hours of structured fieldwork required.

The pre-requisite of TAL 301 or TAL 302 is required and a minimum GPA of 2.50 is required.

Credits: 3

Annually

TAL 352 Sociology and Education

A field-based course in which students use the results of sociological research to inform their observation and analysis of schools and society. Emphasis is placed on such variables as parental involvement and home environment, race/ethnicity, and social class as well as school-related variables, including grouping and teaching practices, teacher attributes and expectations, class and school size, and curriculum. Students make an observational study in a classroom setting that addresses a problem of significance. Ten hours of structured fieldwork are required.

The pre-requisite of TAL 301 or 302 is required and a minimum GPA of 2.50.

Credits: 3

Annually

TAL 353 Creating Inclusive Classroom Communities

A course in which students explore ways to create peaceful democratic classrooms where all children are respected and valued. Emphasis will be on viewing behavior and classroom management contextually, with the aim of fostering social and emotional learning. Students will learn and practice methods of facilitating positive classroom climate, such as peer mediation, conflict resolution, and positive behavioral supports which promote interpersonal communication and social participation. 15 fieldwork hours required.

The pre-requisite of TAL 350 is required.

Credits: 3

Annually

TAL 356 Bilingualism Bilingual Education and Multiculturalism

An introduction to the individual, social, cognitive and linguistic nature of bilingualism, including issues related to assessment and second language acquisition. The course also addresses bilingual education policies, historical and legal foundations, program models, and practices, including the impact of culture on teaching and learning. Ten hours of structured fieldwork required.

The pre-requisite of TAL 301 or 302 is required and a minimum GPA of 2.50.

Credits: 3

On Occasion

TAL 400 The Developing Adolescent

A focus on the preadolescent and adolescent that examines the processes of growth and development in individuals from diverse backgrounds with a range of abilities. Theories of development and learning and ways in which they inform social and educational practices are studied. The relationship between learning and development and the factors

that may hinder or enhance these processes are explored. Throughout the course, attention is given to ways in which race, culture, ethnicity, language, class, gender, sexual orientation, and disability play a role in development and in the teaching and learning process. The impact of early developmental experiences on adolescent development is also investigated. Students have integrated fieldwork experience with adolescents in different settings. Fifteen hours of structured fieldwork required.

The pre-requisites of TAL 301 or TAL 302 is required and a minimum GPA of 2.50 is required.

Credits: 3

On Occasion

TAL 401 Language and Literacy II

A focus on the developing and fluent reader and the place of reading within the integrated curriculum. Linguistic and cognitive processes underlying comprehension are explored within a balanced literacy program of reading and writing instruction. Students become familiar with a variety of literature for children. Special attention is given to developing strategies to meet individual learning needs within a collaborative and inclusive model, including issues of bilingualism and biliteracy. The role of assessment in planning instruction is also addressed, along with approaches to remediation of literacy difficulties. An integrated fieldwork experience focuses on small-group and classroom instruction. Fifteen hours of structured fieldwork required.

The pre-requisites of TAL 350 and 351 or TAL 302 is required and a minimum GPA of 2.50 is required.

Credits: 3

Annually

TAL 402 Teaching and Learning Social Studies in Elementary Schools

An introduction to a theme-based, inquiry-directed, literature-rich, multicultural approach to teaching and learning social studies. New York State social studies standards are reviewed, with a focus on learning goals, essential questions, portfolio assessment, and preparation for democratic citizenship. Emphasis is placed on building broadly inclusive classroom communities. Strategies to meet individual learning needs within an inclusive model are discussed. The fieldwork component integrates course work and classroom practice. Fifteen hours of structured fieldwork required.

The pre-requisites of TAL 350 and TAL 351 are required and a minimum GPA of 2.50 is required.

Credits: 3

Annually

TAL 403 Teaching and Learning Mathematics/Technology in Elementary Schools

An inquiry-based approach to learning mathematics and technology as a tool for teaching. Emphasis is placed on raising questions, planning and developing solutions for open-ended mathematical problems, and formative assessment of learning.

While reviewing basic mathematical concepts such as variables, functions and measurements, students practice the inquiry approach in fieldwork experience. Particular attention is paid to developing strategies to meet individual learning needs within a collaborative and inclusive model while addressing NYS/Common Core Learning Standards. Approaches to addressing difficulties in math will be explored. Fifteen hours of structured fieldwork required.

The pre-requisites of TAL 350 and TAL 351 are required and a minimum GPA of 2.50 is required.

Credits: 3

Annually

TAL 404 Teaching and Learning Science/Technology in Elementary Schools

An inquiry-based approach to teaching science and technology. Emphasis is placed on raising questions, planning and developing solutions for open-ended mathematical problems, and formative assessment of learning. While reviewing basic science concepts and skills, students practice the inquiry approach in fieldwork experience. Particular attention is paid to developing strategies to meet individual learning needs within an inclusive model while addressing NYS/Common Core Learning Standards. Fifteen hours of structured fieldwork required.

The pre-requisites of TAL 350 and TAL 351 are required and a minimum GPA of 2.50 is required.

Credits: 3

Annually

TAL 406 Health Education for Teachers

A review of critical issues in health for pre-service teachers, including methods and materials for teaching about substance abuse, nutrition, fitness, stress management and sex education. Emphasis is placed on the role of planning in helping students make choices about health issues.

The pre-requisite of TAL 301 or 302 is required and a minimum GPA of 2.50 is required.

Credits: 1

Annually

TAL 408 Middle Childhood Curriculum

An opportunity to create, evaluate and implement middle school curriculum by beginning with essential questions about language arts, mathematics, science and social studies. Students become familiar with NYS/Common Core Learning Standards and learn to integrate these standards into the curriculum they develop for diverse learners. In-depth exploration of critical issues across subject areas is emphasized. Various inquiry and assessment methods to engage middle school learners are taught, and students learn how to collaborate with colleagues in a team approach. Thirty hours of structured fieldwork required.

Credits: 3

On Demand

TAL 411 Teaching and Learning English Language Arts in Middle and Secondary Schools

An examination of fundamental issues in the teaching of English language arts at the middle and secondary levels. New York State English Language Arts standards are reviewed, with a focus on reading and writing for information, literary interpretation, personal expression, and critical analysis. Students explore ways to bring enriching multiple representations of content and multicultural materials to their classroom instruction. Students are introduced to a range of literary genres and texts from a multicultural perspective and to various approaches to the teaching of writing. Applications of technology to teaching language arts are explored. The place of grammar in the English curriculum is also addressed. Emphasis is on formative assessment and strategies to meet individual learning needs within an inclusive model. Fifteen hours of structured fieldwork required.

The co-requisites of TAL 406, 460 and 461 are required.

The pre-requisites of TAL 400 and 421 are required.

Credits: 3

On Demand

TAL 412 Teaching and Learning Social Studies in Middle and Secondary Schools

An inquiry-directed, literature-rich, multicultural approach to teaching and learning Social Studies in middle and secondary schools. New York State Social Studies standards for history and social sciences are reviewed, with a focus on teaching strategies and methods, learning goals, essential questions, portfolio assessment, uses of technology, and literacy in the content area. Students explore ways to bring enriching multiple representations of content and multicultural materials to their classroom instruction. Strategies for meeting individual learning needs within inclusive classroom communities are emphasized. Fifteen hours of structured fieldwork required.

The co-requisites of TAL 406, 460 and 461 are required.

The pre-requisites of TAL 400 and 421 are required.

Credits: 3

On Demand

TAL 413 Teaching and Learning Mathematics/Technology in Middle and Secondary Schools

An integrated inquiry-based approach to the teaching of mathematics and technology at the middle and secondary school levels. Basic mathematics concepts, such as properties of numbers, algebraic expressions, solving linear equations, and geometry are reviewed. Attention is paid to teaching to meet New York State learning standards while developing strategies to meet students' diverse needs. Students explore ways to

bring enriching multiple representations of content and multicultural materials to their classroom instruction. Emphasis is placed on raising questions, planning, and developing solutions for open-ended problems, reviewing secondary curricula in the students' subject field of specialization, and formative assessment of learning. Fifteen hours of structured fieldwork required. *The co-requisites of TAL 406, 460 and 461 are required.*

The pre-requisites of TAL 400 and 421 are required.

Credits: 3

On Demand

TAL 414 Teaching and Learning Science/Technology in Middle and Secondary Schools

An integrated inquiry-based approach to the teaching of science and technology at the middle and secondary school levels. The focus is on common themes, such as motion, energy, and form and function, which connect the life, physical, chemical, and earth sciences. Attention is paid to teaching to meet New York State learning standards while developing strategies to meet students' diverse needs. Students explore ways to bring enriching multiple representations of content and multicultural materials to their classroom instruction. Emphasis is placed on raising questions, planning, and developing solutions for open-ended problems, reviewing secondary curricula in the students' subject field of specialization, and formative assessment of learning. Fifteen hours of structured fieldwork required. *The co-requisites of TAL 406, 460 and 461 are required.*

The pre-requisites of TAL 400 and 421 are required.

Credits: 3

On Demand

TAL 415 Teaching and Learning a Language Other Than English in Middle and Secondary Schools

An examination of issues and standards in teaching Languages Other Than English (LOTE) at the middle and secondary levels. Students analyze different strategies and materials used in middle and secondary schools to develop communicative fluency as well as literacy in a LOTE. Strategies are also developed to teach the literature in the LOTE, as well as the culture of the speakers of the LOTE. Differences in strategies between teaching a LOTE, teaching English as a second language, and teaching a heritage language in a bilingual classroom are addressed. Students design lessons and thematic units, practice strategies, and develop competency in language assessment. Twelve hours of structured fieldwork required.

The co-requisites of TAL 406, 460 and 461 are required.

The pre-requisites of TAL 400 and 421 are required.

Credits: 3

On Occasion

TAL 417 Teaching in the Native Language in Bilingual Classrooms

An exploration of teaching models and strategies used to develop native language literacy (reading, writing, speaking and listening) and to use the native language in teaching content areas (mathematics, science and social studies). Students evaluate and select a wide variety of culturally appropriate native language curricula and resources to enhance literacy and content skills. In addition, students become knowledgeable about children's literature and media in the native language. Five hours of structured fieldwork required.

The co-requisite of TAL 418 is required.

The pre-requisites of TAL 350 and TAL 351 are required.

Credits: 2

On Occasion

TAL 418 Teaching in English in Bilingual Classrooms

An introduction to TESOL methods and materials. Students also learn strategies for teaching English language literacy and content area subject matter through the second language. Special attention is given to building on the native language knowledge base. Students evaluate and select a wide variety of culturally appropriate English language curricula and resources to enhance literacy and content skills, including children's literature and media. Five hours of structured fieldwork required.

The co-requisite of TAL 417 is required.

The pre-requisites of TAL 350 and 351 are required.

Credits: 2

On Occasion

TAL 421 Language & Literacy III: The Adolescent Learner

A course that addresses the teaching of literacy at the middle childhood and adolescent levels from a developmental perspective, building upon the foundations of literacy established in early childhood and childhood. Emphasis will be on the development of fluent mature reading, including strategies for teaching vocabulary, critical thinking, reading in the content areas, and study skills.

Various approaches to the teaching of writing will be presented, and students will become familiar with a diverse range of multicultural literature for middle-school children and adolescents. Practices related to assessment and the organization of instruction will be introduced. Strategies for adaptation of instruction for children of diverse abilities and language backgrounds will also be addressed. Fifteen hours of structured fieldwork required.

Credits: 3

On Demand

TAL 431 Methods of Teaching Art: Elementary

Hands-on use of the appropriate materials for the child in elementary school, such as paint, clay, papier mache and textiles. Includes lectures, readings, a museum visit and observations at an elementary school. This course has additional fees. 10 Hours of Fieldwork.

Credits: 3

Cross-Listings: ART 146, TAL 431

Every Fall

TAL 432 Methods of Teaching Art: Secondary

Use of materials and formulation of projects for students on the secondary level (7-12). Formal lesson plans are developed dealing with structured studio art classes in art history, drawing, painting, perspective, ceramics, photography and fiber design.

Credits: 3

Cross-Listings: ART 147, TAL 432

Every Spring

TAL 450 Student Teaching in Childhood Education

A student teaching semester that prepares reflective teachers to create effective classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Schools and classrooms are chosen with special attention to diversity. Student teaching is full time, five days a week for 15 weeks. Students have one main placement in grades 1 through 3 or grades 4 through 6 throughout the semester. In addition, they are required to student teach for a minimum of 20 full days at the other level (either 1-3 or 4-6).

The co-requisite of TAL 451 is required and permission of the Department.

Credits: 6

Every Fall and Spring

TAL 451 Student Teaching Seminar in Childhood Education

A seminar that gives student teachers an opportunity to look closely and critically at their work in classrooms. Through reflective conversations, readings and writing assignments about their teaching practice, students learn how to create meaningful relationships with children and the classroom community through engaging curriculum. They explore how issues of diversity, including class, disability, ethnicity, gender, language, race and sexual orientation; affect the lives of children and their own lives as teachers. Major strands underlying the childhood education program are revisited and integrated with new material that will deepen students understanding of

how to meet the educational needs of all students.
The co-requisite of TAL 450 is required.

Credits: 2

Every Fall and Spring

TAL 460 Student Teaching in Adolescence Education

A student teaching semester that prepares reflective teachers to create excellent classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation, and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Schools and classrooms are chosen with special attention to diversity. Student teaching is full time, five days a week for 15 weeks. Students have one main placement in grades 7 through 9 or grades 10 through 12 throughout the semester. In addition, they will be required to student teach for a minimum of 20 full days at the other level. Program approval required.

The co-requisite of TAL 461 is required.

Credits: 3

Every Fall and Spring

TAL 461 Student Teaching Seminar in Adolescence Education

A student seminar that gives student teachers an opportunity to look closely and critically at their work in classrooms. Through reflective conversations, readings and writing assignments about their teaching practice, students learn how to create meaningful relationships with children and the classroom community through engaging curriculum. They explore how issues of diversity, including class, disability, ethnicity, gender, language, race and sexual orientation, affect the lives of children and their own lives as teachers. Major strands underlying the adolescent education program are revisited and integrated with new material that will deepen students understanding of how to meet the educational needs of all students.

The co-requisite of TAL 460 is required.

Credits: 3

Every Fall and Spring

TAL 465 Student Teaching in Art Education

A student teaching semester that prepares reflective art teachers who work to create excellent classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school.

Schools and classrooms are chosen with special attention to art creativity and diversity. Student teaching is full time, five days a week for 15 weeks. Students have two placements: half of their time is spent in a pre-kindergarten through grade 6 setting, the other half in a grade 7 through 12 setting. Program approval required.

The co-requisite of TAL 466 is required.

Credits: 6

Every Fall and Spring

TAL 466 Student Teaching Seminar in Art Education

A student teaching seminar that gives students an opportunity to look closely and critically at their work in classrooms. Through reflective conversations and reading and writing assignments about their teaching practice, they come to understand how to create meaningful relationships with children in the classroom community and to use the arts in education. Students explore the impact of diversity, including race, culture, ethnicity, language, class, gender, sexual orientation and disability within the school culture and the creation and meaning of art.

The co-requisite of TAL 465 is required.

Credits: 2

Every Fall and Spring

TAL 468 Student Teaching Seminar in Music Education

A student teaching seminar that gives students an opportunity to look closely and critically at their work in classrooms. Through reflective conversations and reading and writing assignments about their teaching practice, they come to understand how to create meaningful relationships with children in the classroom community and to use the arts in education. Students explore the impact of diversity, including race, culture, ethnicity, language, class, gender, sexual orientation and disability within the school culture and the creation and meaning of music.

Departmental permission required.

The co-requisites of TAL 467.1 and TAL 467.2 are required.

Credits: 2

Every Fall and Spring

TAL 471 Teaching Physical Education Pre-K - Grade 6

A study of the basic principles, content, organization and curriculum in physical education for pre-k to 6th grade. Students learn to impart the knowledge and skills necessary for participation in a range of activities appropriate for pre-school and elementary school children and for the establishment and maintenance of personal fitness and health. Addresses a range of activities in multicultural contexts, including games that children in urban areas typically play. Students will become familiar with resources and opportunities for physical activity in the community as well as professional organizations in physical education.

Particular attention will be paid to the inclusion of diverse student groups, with emphasis on gender and learners with disabilities. Includes methods and teaching strategies, instructional technology, assessment techniques, and program evaluation with a focus on equity issues. 20 hours of fieldwork in physical education classes in elementary schools are required.

The pre-requisite or co-requisite is TAL 350 is required.

Credits: 3

On Demand

TAL 476 Teaching Physical Education Grades 7-12

A study of the basic principles, content, organization and curriculum in physical education for grades 7-12. Students learn to impart the knowledge and skills necessary for participation in a range of activities appropriate for adolescents and for the establishment and maintenance of personal fitness and health. Includes the organization and administration of physical education and athletics, including facilities, equipment, legal safeguards, and intramurals and extramurals. Students will also become familiar with resources and opportunities for physical activity for adolescents in the community. Particular attention will be paid to the inclusion of diverse student groups, with emphasis on gender and learners with disabilities. Includes methods and teaching strategies, instructional technology, assessment techniques, and program evaluation with a focus on equity issues. 20 hours of fieldwork in physical education classes in middle or secondary schools are required.

The pre-requisite or co-requisite of TAL 350 is required.

Credits: 3

On Demand

TAL 480 Student Teaching in Bilingual Childhood Education

A student teaching semester that prepares reflective bilingual education teachers to create excellent classrooms and schools in urban settings. Students participate in every aspect of practice, including implementation and assessment of dual language curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes and complexities of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Schools and classrooms are chosen with special attention to diversity. Student teaching is full time, five days a week for 15 weeks. Students have one main placement in grades 1 through 3 or grades 4 through 6 throughout the semester. In addition, they are required to student teach for a minimum of 20 full days at the other level (1-3 or 4-6). Program approval required.

The co-requisites of TAL 452 and TAL 481 are required.

Credits: 6

Every Fall and Spring

TAL 481 Student Teaching Seminar in Bilingual Childhood Education

A student teaching seminar that gives students an opportunity to look closely and critically at their work in classrooms. Through reflective conversations and reading and writing assignments about their teaching practice, students come to understand how to create meaningful relationships with children and the classroom community through an inclusive bilingual curriculum. They explore the impact of diversity, including race, culture, ethnicity, language, class, gender, sexual orientation and disability, within the school culture.

The co-requisites of TAL 451 and TAL 480 are required.

Credits: 2

Every Fall and Spring

TAL 490 Student Teaching in Physical Education

A student teaching semester that prepares reflective physical education teachers who work to create excellent classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Student teaching is full time, five days a week for 15 weeks. Students have two placements: half of their time is spent in a pre-kindergarten through grade 6 setting, the other half in a grade 7 through 12 setting. Program approval required.

The pre-requisite or co-requisite of TAL 471 and 476 is required. The corequisite of TAL 491 is required.

Credits: 6

Every Fall and Spring

TAL 491 Student Teaching Seminar in Physical Education

A student teaching seminar that gives students an opportunity to look closely and critically at their work in physical education settings. Through reflective conversations and reading and writing assignments about their teaching practice, they come to understand how to create meaningful relationships with children in the classroom community. Students explore the impact of diversity, including race, culture, ethnicity, language, class, gender, sexual orientation and disability within the school culture and the physical education classroom.

The co-requisite of TAL 490 is required.

Credits: 2

Every Fall and Spring

TAL 4671 Student Teaching in Elementary Music Education

A student teaching semester that prepares reflective music teachers who work to create excellent elementary classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation, and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Schools and classrooms are chosen with special attention to music creativity and diversity. Student teaching is a full-time, five day a week for 7 weeks in an elementary music program. Departmental permission is required. The pre-requisites of MUS 109 and MUS 110 are required. The co-requisites of TAL 467.2 and TAL 478 are required.

Credits: 3

On Demand

TAL 4672 Student Teaching in Secondary Music Education

A student teaching semester that prepares reflective music teachers who work to create excellent secondary classrooms and schools for all urban students. Students participate in every aspect of practice, including planning, implementation, and assessment of curriculum and instruction. They immerse themselves in the life of a school, recording and thinking about the purposes, complexities and consequences of what they do as teachers in order to learn from their experiences. Students are supervised by a University faculty member and a cooperating teacher in the participating school. Schools and classrooms are chosen with special attention to music creativity and diversity. Student teaching is full-time, five days a week for 7 weeks in an elementary music program. Departmental permission is required. The pre-requisites of MUS 109 and MUS 110 are required. The co-requisites of TAL 467.1 and TAL 468 are required.

Credits: 3

On Demand

Physical Education Courses

PE 1 An Introduction to Racquet Sports

For Non-Physical Education Majors
An overview of the fundamental skills required to participate in and enjoy racquet sports such as badminton, tennis, paddle tennis, paddleball and pickle ball. Students gain understanding of the rules courtesies, equipment, strategies and safety needed for the novice participant. Two hours.

Credits: 1

On Occasion

PE 2 Introduction to Golf

An introduction to the fundamentals of golf, including stance, grip and swing, as well as to course play, selection of equipment, safety, and golf terminology. Two hours.

Credits: 1

On Occasion

PE 4 Fitness and Wellness

An overview of the factors that influence personal wellness. Includes topics related to nutrition, environmental factors, exercise, and social and emotional components of physical activity that affect the life-style choices made to pursue a healthy state of being.

Credits: 3

Every Fall and Spring

PE 13 Beginning Aerobic Dance 1

An introduction to aerobic training in a comprehensive program of physical fitness using multi-impact and cross-training techniques to develop and improve cardiovascular fitness. Personal journals are kept in which students record their progress and understanding of the health benefits of nutrition, flexibility, balance, strength and endurance. Three hours. (Same as PE 13.) Prerequisite: Doctor's permission. May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 13, PE 13

Alternate Years

PE 13A Step Aerobics

Aerobic conditioning for all levels using steps and music to develop and improve cardiovascular fitness. Students learn how to work safely and effectively while they learn the basics of nutrition, strength, flexibility and balance for overall better physical fitness and well-being. Personal journals are kept. Three hours. (Same as PE 13A.) Prerequisite: Doctor's permission. May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 13A, PE 13A

Alternate Years

PE 14 Beginning Aerobic Dance 2

A continuation of DNC 13. Three hours. (Same as PE 14.) May be taken twice for credit.

Pre-requisite of DNC 13/PE 13 is required.

Credits: 3

Cross-Listings: DNC 14, PE 14

Alternate Years

PE 17 Teaching Movement and Dance for Children

Students will practice and learn the strategies and progressions for teaching fundamental movement skills, rhythmic activities, and dance to preschool and elementary age children, including locomotion, manipulation, gross motor skills, and rhythm and dance from diverse cultures. In addition, students learn how to present different teaching styles, make the gymnasium safe, establish protocols and rules,

provide feedback and motivate children. Focus is on inclusive activities, games, fitness, and enjoyment of movement.

Credits: 1

Cross-Listings: PE 17, SPS 17

On Occasion

PE 21 Sport, Functional Training and Performance I

Students receive instruction and experience in functional training of athletes and non-athletes for strength, balance, stability, agility, power and flexibility using a systematic progressive approach. Student learns basic exercises. Additional time is required other than the standard meeting times. This course has an additional fee.

Credits: 2

Cross-Listings: PE 21, SPS 21

Every Fall

PE 22 Sport, Functional Training and Performance II

Students receive instruction and experience in functional training of athletes for balance, agility, power and flexibility. Using a systematic progressive approach, student progresses to more advanced and challenging exercises. Additional time is required other than the standard meeting times.

The pre-requisite of SPS 21 or PE 21 is required or permission of the Division.

Credits: 2

Cross-Listings: PE 22, SPS 22

Every Spring

PE 23 Teaching Individual and Team Sports I

Instruction in the fundamental skills, techniques, teaching methods, safety and coaching tactics of soccer, softball, and volleyball.

Credits: 3

Every Fall

PE 24 Teaching Individual & Team Sports II

Instruction in the fundamental skills, techniques, teaching methods, safety and coaching tactics of basketball and racquet sports.

Credits: 3

Every Spring

PE 47 Personal and Community Health

An introduction to personal and community health issues and challenges that affect the allied health practitioner. Emphasis is placed on the student's understanding, attitudes, knowledge and behavior with regard to critical health issues affecting contemporary living. Areas of inquiry include substance abuse, nutrition, stress, consumer-related issues, alcohol and tobacco and complementary alternative medicine.

Credits: 2

Every Spring

PE 58 Introduction to Modern Dance 1

A studio survey course that offers the tools with which to participate in and appreciate dance, music in relation to dance, and the dance heritage that

provides the essential materials for this course. Students come to appreciate the body as an instrument capable of many forms of expression while they build strength, flexibility and control through the kinesthetic understanding of a basic movement vocabulary. Introduction to modern dance. Three hours.

(Same as PE 58.)

May be taken twice for credit.

Credits: 3

Cross-Listings: DNC 1, PE 58

Every Fall and Spring

PE 140 CPR/ First Aid / Safety

An opportunity for students, upon successful understanding of the theory and practice, to earn certification cards in CPR and Standard First Aid.

Credits: 3

Every Fall and Spring

PE 142 Basic Principles of Athletic Training

A presentation of the principles of prevention, recognition, and management of athletic injuries. Also included are pertinent administrative, psychosocial and pharmacological issues and an overview of the mechanics of injury, athletic equipment, and taping. This course requires additional lab time other than the standard meeting times listed in the schedule of classes. This course has an additional fee.

The pre-requisite or co-requisite of BIO 131 is required.

Credits: 3

Cross-Listings: PE 142, SPS 142

Every Fall and Spring

PE 146 Principles and Philosophy of Coaching I

A study of theory and methods of coaching in elementary, secondary schools and collegiate settings. A focus on administrative, organizational and interpersonal skills for potential coaches. The course will also address planning and teaching sports skills and strategies with recommendations concerning the mechanics of coaching.

Pre-requisite of SPS 21 or SPS 22 is required.

Credits: 3

Cross-Listings: PE 146, SPS 146

Every Spring

PE 150 Motor Learning

Using a conceptual model of human performance, students apply a problem-based approach to teaching motor skills. Various instructional strategies and program designs will be presented.

The pre-requisites of SPS 51 and SPS 21 or SPS 22 are required or permission of the Division.

Credits: 3

Cross-Listings: PE 150, SPS 150

Every Spring

PE 151 Functional Kinesiology

The class explores the science of human motion from a neuromuscular perspective. Emphasis will be on the application of knowledge relative to the movements, vocabulary and training principles in

health sciences. Areas of course emphasis will include: Functional anatomical review of the musculoskeletal system, review of muscle morphology and an examination of movement patterns and configurations.

Pre-requisite of BIO 131 is required.

Credits: 3

Cross-Listings: PE 151, SPS 151

Every Semester

PE 152 Exercise Physiology I

This course will consider the physiologic effects of exercise on the human body, covering topics such as bioenergetics, energy transfer and thermogenesis. The effect of activating on several physiologic support systems (i.e. pulmonary, circulatory, neuromuscular, and hormonal) will be discussed in detail. This course is designated as the writing intensive course for Sports Sciences majors and fulfills the University's requirement for Writing Across the Curriculum.

The pre-requisite of BIO 131 or CHE 3X is required.

Credits: 3

Cross-Listings: PE 152, SPS 152

Every Fall

PE 153 The School Health Program

An examination of the role of the school, community and outside agencies in the development of school health programs. The development of skills in organizing and evaluating curricula for health instruction is studied. Includes methods of implementation and administration of health services in the school setting.

The pre/co-requisites of PE 4, 5, or 47 are required.

Credits: 3

On Demand

PE 154 Adapted Physical Education I

This course provides students with an understanding of the physical, psychosocial and medical characteristics of people with various disabilities. Based on assessment, students learn to adapt exercise, physical activity and sports programs to the unique abilities, needs and preferences of each individual. In addition, students learn to analyze case studies and write individualized education plans (IEPs) in Adapted Physical Education. This course has an additional fee.

The pre-requisite of co-requisite of PE 151/SPS 151 is required.

Credits: 3

Cross-Listings: PE 154, SPS 154

Every Fall

PE 156 Evaluation in Health and Fitness

This course combines measurement and evaluation, theory coupled with laboratory experiences in the physical assessment of health and fitness. The objective of this course is to provide the student with a broad understanding of pre-participation screening, risk stratification and assessment of strength, muscular endurance, muscular power, body composition, and flexibility.

Credits: 3

Cross-Listings: PE 156, SPS 156

Every Semester

SCHOOL OF HEALTH PROFESSIONS

The School of Health Professions at LIU Brooklyn is dedicated to providing superior quality education in the health professions to a diverse student body. With strong ties to the community and to many health care facilities that support educational efforts as well as research, our programs address clinical health care, community-based health and social issues. The School prepares students for careers in the areas of respiratory care; diagnostic medical sonography; physician assistant; occupational therapy; athletic training, health and exercise science (including sport management and exercise physiology); physical therapy; social work; and public health. The programs also introduce students to interprofessional practice.

Our programs span the undergraduate, graduate and doctoral levels, and lead to careers in growing professions that offer a wealth of career opportunities. Graduates of our programs are in high demand in the current health care job market, and this level of demand will continue for many years to come.

The School of Health Professions' faculty members are renowned experts in their fields and have vast experience in their respective areas of specialization, which contributes to their exceptional teaching abilities. Many faculty members are engaged in clinical practice and research, which greatly contributes to the learning experience of their students and to their own professional growth.

The School integrates liberal arts education with advanced sciences and health-oriented curricula. On the undergraduate level, it offers the Bachelor of Science degree in health science, respiratory care, diagnostic medical sonography and sports sciences, as well as the B.A. in Social Work. It also offers combined B.S./M.S. degrees in athletic training, and occupational therapy, and a B.S. Health Science/Master Public Health. A B.S. in Health Science/DPT is also offered.

All students are expected to complete 64 credits of liberal arts and sciences courses in addition to their specializations and professional studies. Proficiency and core courses for undergraduate programs are offered through Richard L. Conolly College.

For information, please contact the Dean's Office at 718-780-6578, fax 718-780-4561, or visit the website at www.liu.edu/brooklyn/shp.

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Criminal Background Checks and Drug Testing

Many clinical/field experience affiliates, i.e., hospitals and clinics now require the completion of criminal background checks and/or drug testing for employees, volunteers and students affiliated with the site. Therefore, School of Health Professions students who plan to participate in a clinical/field experience may be asked to undergo a criminal background check, and/or a drug screen. A criminal conviction and/or the use of illegal drugs may impede or bar your entry into your chosen field of study. Students desiring entrance into the School of Health Professions should be aware that our clinical/field affiliates have the right to reject or remove a student from the site if a criminal record is discovered or if a drug test is positive. In the event that a student is rejected from a clinical/field site due to information contained in the criminal background check, or drug screen, you may be unable to complete a required clinical/field experience. If you are unable to complete program requirements, you may be advised to withdraw from the program.

In addition, School of Health Professions students should be aware that the presence of a criminal record could result in the refusal of the licensing/ certification/registration agencies (NBRC and or state licensing board) to issue the credential or license to practice. Prospective students are strongly encouraged to contact pertinent state licensing board to inquire whether a criminal record, including driving offenses would preclude the individual from eligibility to obtain a license/certification.

DIVISION OF ATHLETIC TRAINING, HEALTH AND EXERCISE SCIENCE

Division Director and Associate Professor: Eugene Spatz, M.S.

Associate Professor: David Spierer, Ed.D.

Assistant Professors: Tracye Rawls-Martin, M.S., ATC, Director, Athletic Training Education Program; Amerigo Rossi, B.A., M.S.; Arpi Terzian, Ph.D., M.P.H.; Kevin Duffy, M.S., ATC, CSCS, CES, PES, Clinical Coordinator of B.S./M.S. in Athletic Training; Melissa Lent, M.S.Ed., Associate Director of the B.S. in Health Science Program; Scott Westervelt, M.S., Director of Practicum for the Health Science Program; Nikki Carosone Russo, M.S., ACSM cPT, Student Service Advisor for the B.S. in Health Science Program; Joe Branch, Director of Sport Management Concentration Program

Adjunct Faculty: 30

The Division of Athletic Training, Health, and Exercise Science offers a variety of undergraduate and graduate programs for students who wish to embark or advance their career in the health professions. Our Division offers bachelor's degrees in Sports Sciences and Health Science, a B.S./M.S. degree in Athletic Training and an M.S. degree in Advanced Athletic Training & Sports Sciences as well as an M.S. degree in Exercise Science with tracks in Exercise Physiology and Sports Nutrition, Strength and Conditioning and Sports Nutrition and Fitness for People with Disabilities. All degree programs offer classroom, laboratory and real-world application. Each program requires participation in internships that may lead to future employment opportunities.

Our programs are complemented by excellent opportunities for hands-on experiences, applied research and community-based service that is responsive to the health and exercise needs of the diverse populations of New York City and the surrounding Tri-State area. Students enjoy the benefits of our relationships with the Steinberg Wellness Center and NCAA Division-I athletic teams, in addition to our off-campus ties to Pfizer Corporate Fitness, Brooklyn Nets, Velocity Sports Performance, La Palaestra Center for Preventive Medicine and other clinical affiliations that specialize in athletic training, fitness, rehabilitation, sport performance and sport management.

The Division of Athletic Training, Health and Exercise Science has 10 full-time faculty and over 40 adjunct faculty who are highly recognized and diverse in terms of their backgrounds and their fields of interest.

The CAATE accredited Athletic Training Program prepares students for careers as entry-level certified athletic trainers and culminates in a B.S./M.S. in Athletic Training. Certified Athletic Trainers (ATCs) are health care professionals who

specialize in the prevention, assessment, treatment and rehabilitation of injuries and illnesses that affect athletes and the physically active.

The American Medical Association recognizes Certified Athletic Trainers as health care professionals who prevent, rehabilitate and manage athletic injuries and general medical conditions in secondary schools, universities, clinics, professional athletics, the Department of Defense, sports medicine clinics and hospitals, the performing arts, physician offices, occupational workplaces and industry.

The athletic trainer's professional preparation is directed toward the development of specified competencies in the following 8 content areas which define the profession of athletic training: Evidence-Based Practice, Prevention and Health Promotion, Clinical Examination and Diagnosis, Acute Care of Injuries & Illnesses, Therapeutic Intervention, Psychosocial Strategies and Referral, HealthCare Administration, Professional Development and Responsibility.

B.S. in Sports Sciences

The 128 credit B.S. in Sports Sciences is designed to meet the growing need for health professionals versed in the science of exercise, physical activity and sport performance. Our four-year program focuses on such areas as exercise physiology, motor learning, conditioning for sport, nutrition, biomechanics, sport management and fitness programming for healthy and unhealthy populations, as well as those with disabilities. Our Exercise Physiology minor is accredited by the American Society of Exercise Physiologists (ASEP) and our program is recognized by the National Strength and Conditioning Association (NSCA).

Minors

The Division offers a number of minors for students who are seeking to expand their knowledge and skills in a field other than their major. Minors consisting of 12 credits each can be completed in the following areas:

- General Sport Sciences Minor (for Non-Sports Sciences Majors)
- Exercise Physiology Minor
- Adapted Physical Activity Minor
- Fitness and Conditioning Minor
- Urban Yoga Minor (open to all Majors)

Concentration in Sport Management

The 21 credit concentration in Sport Management prepares students for entry-level positions within the sports and fitness industry and university-level athletic administration. The Sport Management concentration in collaboration with the School of Business provides students with knowledge and practical experience in sports marketing, sports management, business ethics, event planning, facility management, finance and public relations. Students may pursue a business minor within the Sport Management concentration.

Applying for Minor and/or Concentration

Students are encouraged to apply for a minor or concentration during their sophomore year. They must consult with their advisers to select courses and field experiences. Students who are not accepted or do not apply will follow the recommended Sports Sciences course of study with no minor or concentration.

Admission Requirements

To qualify for acceptance into the B.S. in Sports Sciences program:

- Entering freshman must have a high school grade-point average of at least 80 and a combined SAT score of at least 800
- Transfer students must have an overall grade-point average of at least 2.0
- Submit a general application for admission through My LIU

To qualify for acceptance into a minor or concentration students must:

- Complete a minimum of 24 credits
- Attain a grade-point average of 2.5 or above
- Undergo an interview with the director of the concentration

B.S. in Sports Sciences

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria as outlined in the graduation requirements section of the LIU Brooklyn Undergraduate bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	Not Required

Social Sciences

History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	6 credits

Science and Mathematics

Mathematics	3-4 credits
Science (BIO 3 and BIO 4)	8 credits

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	Not Required

Ancillary Course Requirements:

Must complete the following Biology course.

BIO 131	Human Anatomy	4.00
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Major Requirements

All Courses Listed Below Must Be Completed.

SPS 21	Sport, Functional Training and Performance I	2.00
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SPS 22	Sport, Functional Training and Performance II	2.00
SPS 103	Exercise Prescription I	3.00
SPS 120	Anatomy of Exercise	3.00
SPS 140	CPR for the Healthcare Provider	3.00
SPS 142	Basic Principles of Athletic Training	3.00
SPS 146	Principles and Philosophy of Coaching I	3.00
SPS 148	Nutritional Aspects of Fitness and Sport	3.00
SPS 150	Motor Learning	3.00
SPS 151	Functional Kinesiology	3.00
SPS 152	Exercise Physiology I	3.00
SPS 154	Adapted Physical Education I	3.00
SPS 156	Evaluation in Health and Fitness	3.00
SPS 164	Field Experience	3.00
SPS 195	Culmination in Sports Sciences	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits: 43 credits
 Minimum Credits Above 100 Level Courses: 48 credits
 Ancillary Course Requirements: See Above
 Minimum Sports Science Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

B.S. in Health Science

The 128-credit B.S. in Health Science is a unique interdisciplinary degree program with a strong foundation in the basic sciences and health. The B.S. in Health Science is designed for students seeking entry-level positions in the health field, as well as those interested in advancing their educational and career opportunities in the health professions such as: nursing, public health, physical therapy, athletic training, occupational therapy, physician assistant, medicine, health administration, exercise science, nutrition and epidemiology.

The Health Science program offers two accelerated degree tracks for students seeking admission into either the Master of Public Health (MPH) or Doctor of Physical Therapy (DPT) program at LIU-Brooklyn. The B.S. in Health Science will prepare students for graduate study in a number of areas related to the health professions.

Admission Requirements

To qualify for acceptance into the B.S. in Health

Science program:

- Entering freshmen must have a high school grade-point average of at least 80 and a combined SAT score of at least 800
- Transfer students must have an overall grade-point average of at least 2.0
- Submit a general application for admission through My LIU

Program Requirements

Continued enrollment in this program is contingent upon:

- Maintaining at least a 2.0 overall grade-point average
- Maintaining a minimum health science grade-point average of 2.5
- Earning a grade of C or better in each Health Science course
- Fulfilling all field experience clearance requirements prior to the beginning of each field experience course

B.S. in Health Science

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the **Graduation Requirements** section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	Not Required
Social Sciences	
History	6 credits
Social Sciences (ANT, ECO, POL, PSY, SOC)	6 credits

Science and Mathematics

Mathematics	3-4 credits
Biology (BIO 3 and BIO 4)	8 credits

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	Not Required

Ancillary Course Requirements:

Must complete all the following Biology courses.

BIO 101	Microbiology	3.00
BIO 131	Human Anatomy	4.00
BIO 132	Human Physiology	3.00

Choose one of the following Chemistry sequences.

CHM 3X	General Chemistry	4.00
CHM 4X	Introduction to Organic and Biochemistry	4.00
or		
CHM 3	Principles of Chemistry I	4.00

CHM	4	Principles of Chemistry II	4.00
Choose one of the following Mathematics courses.			
MTH	100	Introductory Statistics	3.00
PSY	150	Statistics in Psychology	3.00

Major Requirements

All courses listed below must be completed. Students must earn grades of C and higher in all major courses.

HS	300	Introduction to Health Professions	3.00
HS	325	Current Issues in Urban Health	3.00
HS	340	Wellness and Nutrition	3.00
HS	355	Diversity and Health Disparities	3.00
HS	410	Healthcare Organizations and Delivery	3.00
HS	430	Introduction to Research in the Health Professions	3.00
HS	460	Ethical and Legal Aspects of Health Care	3.00
HS	471	Health Program Planning	3.00
HS	490	Practicum	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 27 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See Above

Minimum Health Science Major G.P.A.: 2.5

Minimum Cumulative G.P.A.: 2.0

B.S. in Health Science/Master in Public Health

This 138-credit accelerated dual degree program allows students to complete both the undergraduate degree of Bachelor of Science in Health Science (HS) and the graduate degree of Master of Public Health (MPH) coursework in five years, rather than six years. Students apply to the MPH program in their third (junior) year.

Students in the 3 + 2 B.S. HS/MPH program receive both degrees after completing all B.S. HS/MPH program requirements.

Application Requirements for the MPH phase:

- Apply in third (junior) year.
- Have a cumulative undergraduate GPA of 2.8 or higher.
- Submit official transcripts of all undergraduate institutions attended; degrees earned at institutions outside of the United States or Canada must be evaluated by a transcript analysis service recommended by LIU.

- All applicants must submit a graduate admission application form to the LIU Brooklyn campus. Please apply online at www.liu.edu/brooklyn/apply. For more information on the admissions process, visit www.liu.edu/brooklyn/admissions.
- Submit a personal statement that follows specific MPH guidelines (click here for guidelines). Must be typed, double-spaced and no more than two pages.
- Submit two references completed by individuals who can comment on your academic background, paid work, your volunteer and/or community service experience, and your potential as a Public Health professional (specific format must be followed).
- Submit current resume including paid/volunteer work/community service.
- Submit Graduate Record Examination Revised (GRE) Test scores. Visit www.gre.org for more information about the GRE revised general test.

3 + 2 B.S. HS/MPH Acceptance Criteria

1) Guaranteed Acceptance

Criteria for guaranteed acceptance into the 3+2 track.

ALL of the following criteria must be met for guaranteed acceptance:

- At least 24 liberal arts and science credits taken at LIU
 - All required Health Science core courses (as shown on the 3+2 course sequence sheet under Year 3) taken at LIU
 - Within the same trial of a Graduate Record Examination Revised (GRE) Test, achieve 308 or above as a composite score, 150 or above in verbal reasoning, 150 or above in quantitative reasoning, and 4.0 or above in analytical writing
 - Have an overall undergraduate GPA of 2.8 or higher and Health Science major GPA of 3.0
 - Submit two references completed by individuals who can comment on your academic background, your volunteer and/or community service experience, and your potential as a Public Health professional
 - Submit current resume including paid/volunteer work/community service
- #### 2) Competitive Acceptance
- Students in the 3+2 track who do not meet all of the requirements for guaranteed acceptance may apply to the MPH program as a "Competitive Acceptance" applicant for review as a "non-guaranteed acceptance" candidate/applicant.

B.S. in Health Science/Doctor of Physical Therapy

The 214-credit accelerated degree program allows students to complete both the undergraduate Health Science (HS) and the

graduate Doctor of Physical Therapy (D.P.T.) coursework in 6 years. Students apply to the D.P.T. program in their 3rd year (junior year). Students in the 3 + 3 B.S. HS/ D.P.T. program receive their bachelor degree after completing the first year of D.P.T. courses and their Doctor of Physical Therapy degree after completing all of the D.P.T. program requirements. The D.P.T. program is fully accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) and is registered with the New York State Education Department. It is a 3-year, full-time program that spans over 11 academic terms and includes 35 weeks of clinical education. The D.P.T. program is a post-baccalaureate clinical doctorate program that requires candidates to possess a baccalaureate degree upon entrance, unless following through this LIU accelerated 3+3 B.S. in H.S. plan of study. The 1st year of the D.P.T. program begins in July.

Application Requirements to the D.P.T. phase:

- Submit an official score report for the GRE general test or the GRE revised general test.** The recommended minimum composite (verbal reasoning and quantitative reasoning) score is 900 for the GRE general test and 290 for the GRE revised general test.
- Provide evidence of a minimum of 36 hours of work experience in 2 different physical therapy settings, including an inpatient and an outpatient setting, with at least 18 hours in each setting.
- Submit two completed recommendation forms (available at www.PTCAS.org after starting the PTCAS application – see below):
 - One from a physical therapist
 - One from an academic reference
- Submit an application for the D.P.T. Program through the Physical Therapist Centralized Application Service (see Submitting an Application to the PTCAS)
- Completion of all D.P.T. science prerequisites with a letter grade not less than a "C"

3 + 3 B.S. HS/DPT Acceptance Criteria

1) Guaranteed Acceptance

Students interested in applying to the D.P.T. program through the 3+3 track must fulfill ALL of the following criteria:

- At least 24 liberal arts and science credits (excluding the "D.P.T. science pre-requisite" credits) are taken at LIU
- At least 15 D.P.T. science pre-requisite credits are taken at LIU
- All of the required Health Science courses (as shown on the 3+3 course sequence sheet under Year 3) are taken at LIU
- All the liberal arts and science, D.P.T. science pre-requisite, and Health Science courses (as shown on the 3+3 course sequence sheet) are completed in 3 calendar years
- At least 6 out of the 8 D.P.T. science pre-requisite courses are completed in the first 2

calendar years

- Cumulative undergraduate GPA 3.5 or above (as per the PTCAS application)
- Science and Math GPA 3.5 or above (as per the PTCAS application). Completion of all D.P.T. science prerequisites with a letter grade not less than a “C”
- Within the same trial of Graduate Record Examination Revised Test, achieve 308 or above for the composite score, 150 or above for the verbal reasoning, and 150 or above for the quantitative reasoning.

2) Competitive Acceptance

- Students in the 3+3 track who do not meet the requirements for guaranteed acceptance can still apply to the D.P.T. program despite the absence of a guaranteed admission.

Submitting an Application to the PTCAS

The Department of Physical Therapy at LIU Brooklyn participates in the Physical Therapist Centralized Application Service, known as PTCAS. In addition to submitting an application for admission to LIU Brooklyn, those applying to the DPT program for the 2014 entering class must:

- Visit www.ptcas.org to begin the PTCAS application process
- Read the instructions available at the PTCAS Web site carefully
- Select "Login to PTCAS" to complete the application process
- Select “Long Island University – Brooklyn campus” as a designated physical therapy program

**Visit www.gre.org for more information about the GRE revised general test. The LIU Brooklyn Physical Therapy Department code is 0333 which is needed for the PTCAS to receive your GRE results.

Athletic Training Program

The 158-credit dual B.S./M.S. degree in Athletic Training, offered by the Athletic Training Program (ATP), prepares students to take the Board of Certification (BOC) exam to enter the field as a certified athletic trainer (ATC®). One of only four B.S./M.S. programs offered in the United States, the ATP is accredited by the Commission on Accreditation of Athletic Training Education (CAATE), and provides entry-level students with learning experiences in the classroom setting, that are supplemented by a broad array of professional field experiences.

The comprehensive curriculum is divided into two phases: a two-year, Pre-Professional Phase and a three-year, Professional Phase. Students entering without a bachelor’s or an associate’s degree are required to complete the full five years of study. Those holding a previous degree are required to complete three years professional phase of study, providing there are adequate credits in liberal arts and sciences for the bachelor’s portion of the degree.

The expanded, three-year, Professional Phase offers students the chance to take more advanced courses, the advantage of increased time to interact and train with mentors, and the opportunity to integrate a variety of clinical education experiences. At the end of the Professional Phase, students will receive a combined Bachelor of Science/Master of Science degree and will be eligible to sit for the Board of Certification examination for Certified Athletic Trainer to earn the ATC® credential.

Hallmarks of the ATP include clinical learning experiences with opportunities for students to work side-by-side with highly experienced certified athletic trainers; state-of-the-art laboratory facilities that allow students to gain significant experience in all areas of clinical practice; individualized instruction provided by advanced teaching fellows; and a mentorship program that promotes further sharing of knowledge and experience.

Program Goals

- To prepare student to pass the BOC examination for athletic trainers through required G.P.A. and competency/proficiency evaluation minimum
- To offer clinical experiences in appropriate settings that provide adequate exposure to required clinical education competencies and proficiencies
- To provide network opportunities for possible future employment

Accreditation

The program is registered with the New York State Education Department and is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Admission Requirements and Procedures

High school graduates may apply as Pre-Athletic Training candidates. This simplified application process is based on academic performance, i.e., a high school grade-point average of 80 and above.

Pre-Athletic Training Candidacy

Pre-Athletic Training candidates can attend LIU Brooklyn on a part- or a full-time basis, completing their courses in the Pre-Professional Phase of the program. Students have at least two years to explore their career choice, complete the required athletic training volunteer experience, demonstrate their academic ability and complete their prerequisite work.

At the end of their Pre-Professional course of study, students apply for progression into the Professional Phase of the program. Admission to the Professional Phase is both competitive and selective. A limited number of students will be admitted annually. Enrollment in the Pre-Professional Phase and meeting minimum application criteria does not by itself guarantee entrance into the Professional Phase of study.

Application to the Professional Phase

All Pre-Athletic Training candidates, LIU students and transfer applicants seeking admission

to the program’s professional phase must:

- Have a cumulative college grade-point average of at least 2.75 or better
- Have satisfactorily completed all prerequisite work
- Submit official transcripts from all colleges and universities attended (Grades more than 10 years old cannot be accepted)
- Submit two letters of recommendation from individuals involved in the field of athletic training (at least from an ATC)
- Submit a completed Athletic Training professional phase program application
- Have completed a minimum of 80 hours of volunteer work experience under the supervision of a certified athletic trainer
- Be able to successfully demonstrate clinical proficiencies from prerequisite courses (Pass/Fail with 1 retest)
- Meet the technical standards of the program (see Technical Standards below)

Transfer Student Policy

Students from other colleges and universities who satisfy the Pre-Athletic Training candidacy requirements may apply for admission to the Professional Phase of the B.S./M.S. degree program. However, the student must first be accepted to LIU Brooklyn as an undergraduate transfer student through the Office of Admissions application process. Once Admissions accepts the student, the application to the Professional Phase will then be evaluated. At this time, students may petition the program for acceptance of the following Professional Phase courses from their previous institution: SPS 151, 156, 150, 152, 154, 148, 180, 189. No other Professional Phase SPS or HS courses are eligible for transfer.

Not only will students need to provide proof of a grade of C or better in the course, but they also must demonstrate 85% of competencies and proficiencies (oral and written) designated for the courses. The competency and proficiency list is available in several Division offices at the student’s request.

B.S./M.S. in Athletic Training

Technical Standards for the Athletic Training Program

The Athletic Training Program (ATP) at LIU is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the ATP establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). Please refer to the

Athletic Training Student Handbook regarding the ability to meet the Technical Standards.

Student Health Records

Students must annually present a completed LIU Health Examination Form. This includes the requirement of providing proof of immunization, including HBV. Please refer to the Athletic Training Student Handbook for the specific details, including cost, as well as the form.

B.S. / M.S., Athletic Training

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language Not Required

Social Sciences

History 6 credits
 Psychology 3 credits
 Social Sciences 3 credits
 (ANT, ECO, POL, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Laboratory Science 8 credits
 (BIO 3 and BIO 4)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts Not Required
 (ART, DNC, MUS, THE)

Ancillary Course Requirements:

Must complete both of the following Biology courses.

BIO 131 Human Anatomy 4.00
 BIO 132 Human Physiology 3.00

Choose complete the Following Chemistry sequence.

CHM 3X General Chemistry 4.00
 CHM 4X Introduction to Organic and Biochemistry 4.00

Must Complete the following Mathematics and Physics courses.

MTH 100 Introductory Statistics 3.00
 PHY 20 The Physical Universe 4.00

Major Requirements

Must Complete All Undergraduate Courses Below.

SPS 142 Basic Principles of Athletic Training 3.00

SPS	143	Responding to Emergencies in Sport and Physical Activity	3.00
SPS	144	Principles of Taping, Bracing and Protective Athletic Equipment	3.00
SPS	148	Nutritional Aspects of Fitness and Sport	3.00
SPS	150	Motor Learning	3.00
SPS	151	Functional Kinesiology	3.00
SPS	152	Exercise Physiology I	3.00
SPS	154	Adapted Physical Education I	3.00
SPS	157	Evaluation in Health and Fitness	3.00
SPS	162	Introduction to Clinical Education in Athletic Training	1.00
SPS	165	Clinical Education in Athletic Training I	3.00
SPS	172	Advanced Athletic Training I	3.00
SPS	173	Advanced Athletic Training II	3.00
SPS	180	Sports Psychology	3.00
SPS	182	Exercise Physiology II	3.00
SPS	189	Basic Biomechanics and Motion Analysis	3.00

Must Complete All Graduate Courses Below.

EXS	508	Strength and Conditioning Certification Preparation	3.00
EXS	540	Research Methods in Exercise Science	3.00
EXS	576	Therapeutic Exercise in Athletic Training	3.00
EXS	577	Therapeutic Modalities in Athletic Training	3.00
EXS	645	Sports Nutrition and Pharmacology in Sports	3.00
EXS	655	Pathology and Illness in Sport and Physical Activity	3.00
EXS	660	Clinical Education in Athletic Training II	3.00
EXS	661	Clinical Education in Athletic Training III	3.00
EXS	705	Individual Problems	3.00
EXS	709	Clinical Education in Athletic Training IV	3.00

EXS	710	Organization and Administration in Athletic Training	3.00
EXS	711	Clinical Education in Athletic Training V	3.00
EXS	720	Neuroscience and Exercise	3.00
EXS	721	Seminar: Current Issues and Topics in Athletic Training	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 158 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits Undergraduate: 48 credits
 Minimum Total Major Credits Graduate: 42 credits
 Ancillary Course Requirements: See Above
 Minimum Major G.P.A.: 2.75
 Minimum Cumulative G.P.A.: 2.75

Health Science Courses

HS 300 Introduction to Health Professions

This course will provide an introduction to various professions in the health care field. Students will be exposed to an overview of health care systems and major aspects of health care delivery. Students will understand health care priorities on the national and local level. Various health careers will be reviewed with a goal to understand underlying qualities and characteristics of health professions and professional behavior, related values, interests and ethics. In addition, students can begin to explore health career options based on an understanding of professional tasks, skills, tools and technology, abilities, work activities, work context/environment and educational, training and legal requirements. In addition, the course will provide an introduction to medical terminology, as well as library skills. Students will also be required to create a professional resume that may be used for future opportunities.

Credits: 3

Cross-Listings: HS 300, MPH 300

Every Fall and Spring

HS 310 Epidemiology

Epidemiology is a combination of subject matter science and a research methodology; this course focuses on the latter. This course will describe the designs used to study disease in human populations including randomized trials and four types of observational studies (cohort, case-control, cross-sectional, and ecological). Cause-and-effect relations are at the heart of epidemiologic research, this course will also introduce concepts of casual inference, threats to study validity, and multi-causality.

The pre-requisite of MTH 100 or PSY 150 is required.

Credits: 3

Cross-Listings: HS 310, MPH 310

Every Fall and Spring

HS 320 Environmental Health Issues

This course explores the relationship of people to their environment - how it affects their physical well-being, and what they can do to protect and enhance their health, and to influence the quality of the environment. This course will give students a basic understanding of how environmental factors impact the health of people and the community, and of the efforts made to prevent or minimize the effects of negative impacts. Emphasis is on providing a general understanding of how environmental factors are involved in the transmission of communicable diseases and on some of the health hazards resulting from exposure to chemical and physical materials in our environment.

Credits: 3

Cross-Listings: HS 320, MPH 320

Every Fall and Spring

HS 325 Current Issues in Urban Health

This course is intended to explore the most frequent and significant diseases and conditions that health professionals may encounter in an urban setting. This will include conditions, like diabetes, obesity, HIV/AIDS, asthma, substance abuse, mental illness, Alzheimer's disease, cardiovascular disease, cancer. Students will be able to identify basic physiological causes, disease processes, signs, symptoms and unique health challenges facing cities as well as the role of the health professional in prevention and treatment.

Credits: 3

Every Fall and Spring

HS 330 Introduction to Research in the Health Professions

This course is an introduction to the basic concepts and procedures used to conduct and evaluate research in the health sciences. Both quantitative and qualitative research methods will be covered. *The pre-requisite of MTH 100 or PSY 150 is required.*

Credits: 3

Cross-Listings: HS 430, MPH 430

Every Fall and Spring

HS 340 Wellness and Nutrition

This course provides an introduction to nutrition science, and the role of nutrition in health and disease. Topics covered include: nutrient characteristics, requirements, food sources, energy balance, weight control, dietary guides and diet planning. Nutrition requirements for wellness and socio-economic factors that affect food production and consumption will also be discussed.

Credits: 3

Cross-Listings: HS 340, MPH 340

Every Fall and Spring

HS 350 Health Behavior Change

This course is designed to introduce future health professional to social and behavioral science theories and models that will help them explain and manage people's health behaviors whether in a health care community, home, school or work setting.

Credits: 3

On Occasion

HS 355 Diversity and Health Disparities

This course will explore the disparities in health status, life expectancy and healthcare in the United States. Important factors such as diversity, culture, socio-economic status, gender, geography, and access will be analyzed. Students will learn a systematic approach to the process of achieving culture competence and skills necessary to deliver health programs and services with a diverse population.

Credits: 3

Every Fall and Spring

HS 410 Healthcare Organizations and Delivery

This course is designed to help students understand the complexities of the US healthcare delivery system. American health care delivery will be presented in the context of current developments in health reform with references to specific provisions of the Affordable Care Act of 2010. Specific topics will include components of the US Health care systems, health promotion and disease prevention, Medicaid, Medicare, inpatient facilities and services, managed care and integrated organizations, long term care, financing health services for special populations, cost, access and quality care, health policy, Healthy People 2010 and 2020 as well as the future of health services delivery.

Credits: 3

Every Fall and Spring

HS 430 Introduction to Research in the Health Professions

This course is an introduction to the basic concepts and procedures used to conduct and evaluate research in the health sciences. Both quantitative and qualitative research methods will be covered. *The pre-requisite of MTH 100 or PSY 150 is required.*

Credits: 3

Cross-Listings: HS 430, MPH 430

Every Fall and Spring

HS 460 Ethical and Legal Aspects of Healthcare

This course will focus on the ethical and legal dilemmas facing health professionals and administrators in planning and delivering quality healthcare and prevention services. Basic principles and practices of health ethics and law will be presented and applied through the use of case studies and role play. Topics covered included: patient rights, government regulations, HIPPA requirements and confidentiality, ethics of quality care, incident reporting, protecting health information, precedent-setting court cases, financing healthcare and prevention services, tort reform and culture of compassion and truth telling. Students will develop critical thinking skills needed for the ethical decisions they will confront in the health care environment.

Credits: 3

Every Fall and Spring

HS 471 Health Program Planning

In this course, students receive an overview of health program planning frameworks and issues in planning, implementing, and evaluating health programs in a variety of settings.

Credits: 3

Every Fall and Spring

HS 490 Practicum

The student, in consultation with the instructor will complete a minimum of 90 hours of clinical/fieldwork at a health related and/or social service agency/organization. This is a culmination course designed to integrate theory and application

acquired throughout the Health Science Curriculum. The student is required to attend scheduled course sessions on campus and satisfactorily complete all assignments as outlined in course syllabus.

The student must be active in the Health Science or Public Health major and must be a Senior in order to register for this course.

Credits: 3

Cross-Listings: HS 490, MPH 490

Every Fall, Spring and Summer

HS 497-499 Independent Study

Students taking the Independent Study are expected to research an aspect of Health Science under the supervision of a faculty advisor. Included in this research can be a practicum/internship experience of a minimum of 30 hours.

Alternatively, a student is able to produce a study of an approved topic, including a thorough literature review and assessment of the topic. With both options, a final summary project, pre-approved by the faculty advisor, will be presented at the end of the experience.

Credits: 1

On Occasion

Sports Sciences Courses

SPS 17 Teaching Movement and Dance for Children

Students will practice and learn the strategies and progressions for teaching fundamental movement skills, rhythmic activities, and dance to preschool and elementary age children, including locomotion, manipulation, gross motor skills, and rhythm and dance from diverse cultures. In addition, students learn how to present different teaching styles, make the gymnasium safe, establish protocols and rules, provide feedback and motivate children. Focus is on inclusive activities, games, fitness, and enjoyment of movement.

Credits: 1

Cross-Listings: PE 17, SPS 17

On Occasion

SPS 21 Sport, Functional Training and Performance I

Students receive instruction and experience in functional training of athletes and non-athletes for strength, balance, stability, agility, power and flexibility using a systematic progressive approach. Student learns basic exercises. Additional time is required other than the standard meeting times. This course has an additional fee.

Credits: 2

Cross-Listings: PE 21, SPS 21

Every Fall

SPS 22 Sport, Functional Training and Performance II

Students receive instruction and experience in functional training of athletes for balance, agility, power and flexibility. Using a systematic progressive

approach, student progresses to more advanced and challenging exercises. Additional time is required other than the standard meeting times.

The pre-requisite of SPS 21 or PE 21 is required or permission of the Division.

Credits: 2

Cross-Listings: PE 22, SPS 22

Every Spring

SPS 26 Beginner Swimming

This class requires no previous water experience and is geared toward dealing with beginning development of strokes including self-help and survival skills. Students will learn how to travel through the water with a basic paddle stroke. Front crawl, back crawl, elementary backstroke, and basic safety skills are covered. This course requires additional hours other than the standard meeting times listed in the schedule of classes.

Credits: 1

Every Semester

SPS 52 Intermediate Swimming

Refine front/back crawl and backstroke. Further develop breaststroke and sidestroke. Introduction to butterfly and workout swims. Students must be able to swim in deep water and have a basic understanding of all strokes. This course requires additional hours other than the standard meeting times listed in the schedule of classes.

Credits: 1

Every Semester

SPS 62 Advanced Swimming and Fitness

This course is designed to refine strokes so students swim with more ease, efficiency, power and smoothness over greater distances. In addition, students will create and present a swim fitness program and understand its related health and wellness benefit.

Credits: 1

On Occasion

SPS 80 Beginning Fitness and Exercise for Living

This course will investigate the effects of the human body and the training modalities used to maintain a healthy lifestyle. Students learn proper warm-up and exercise for healthy living. Emphasis is on the relation between the exercises and cardiovascular fitness, muscle function, weight control, strength and flexibility.

Credits: 1

Every Fall

SPS 81 Intermediate Fitness and Exercise for Living

A continuation of SPS 80, students will learn how to design and perform proper warm-up and exercise for healthy living. Emphasis is on the relation between the exercises and cardiovascular fitness, muscle function, weight control, strength and flexibility.

Credits: 1

Every Spring

SPS 82 Aerobic Fitness and Endurance Exercise

An exploration of the physiology of aerobic fitness through lectures as well as hands-on activities. Topics include standards used for measurement of intensity, prescription of exercise, and aerobic fitness and performance in work and sports.

Current trends in aerobic exercise and fat metabolism are reviewed.

Credits: 2

Every Spring

SPS 91 Pilates for Health Professionals

This course is an introduction to Pilates for students interested in or enrolled in the Health Professions. Students practice group mat exercises that are designed to improve core muscle strength, balance, muscle control, spinal and pelvic alignment and flexibility. Development of strength and control in abdominal, back and hip muscles is important for preventing back pain as well as enhancing activities of daily living, functional movement and sport performance.

Credits: 2

Every Fall

SPS 98 Beginning Weight Training

The theory and application of basic weight training techniques with an emphasis on personal programs. Students will be required to explain and demonstrate specific exercises. This course has an additional fee.

Credits: 1

Every Fall and Spring

SPS 100 Special Olympics, Theory and Practice I

An overview of people with intellectual disabilities and the role of the Special Olympics. Through lecture and practical hands-on experiences, students learn how to conduct a Special Olympics training session, assess athletes, and teach sport specific skills to this population.

Credits: 1

Every Fall

SPS 101 Special Olympics Theory and Practice II

A continuation of SPS 100.

Pre-requisite of SPS 100 is required.

Credits: 1

Every Spring

SPS 102 Adapted Aquatics for People with Multiple Sclerosis

This course introduces principles of exercise in an aquatic environment and approaches to adapt aquatic exercise for people with multiple sclerosis (MS). Through lecture, simulations, laboratory and hands-on experience students learn about MS and how to organize and adapt activities to meet each individual's needs. Students will support participants with MS in the aquatic sessions and will develop knowledge and leadership skills in co-leading sessions. Students will learn principles of safety in the aquatic environment and how to assist people effectively.

Credits: 3

Every Spring

SPS 103 Exercise Prescription I

This course is designed to teach students how to prescribe exercise for healthy individuals based on information gathered in the fitness evaluation, client health history and lifestyle questionnaire. Areas addressed will include flexibility, strength, cardio-respiratory endurance and body composition. Laboratory experiences and case studies are used to study problems and develop exercise solutions.

Credits: 3

Every Fall

SPS 104 Exercise Prescription II

This course is based on the American College of Sports Medicine's Guidelines for Exercise Testing and Prescription. ACSM's principles are applied to develop appropriate exercise programming for individuals with musculoskeletal, neurological, auto-immune and cardiovascular impairments. Laboratory experiences and case studies are emphasized.

The pre-requisite of SPS 103 is required.

Credits: 3

Every Spring

SPS 105 Lifeguard Training

This course gives the most current instruction in the American Red Cross lifeguard training techniques, First Aid and CPR skills required to gain eligibility for a lifeguard position. Upon successful completion, a student will earn certifications in both American Red Cross Lifeguard Training and CPR for the Professional Rescuer. Adequate swimming skills are necessary. Prerequisites: On first day, student must: swim 500 yards (20 lengths of the pool); 200 yards front crawl; 100 breaststrokes and 200 of your choice. Swim 20 yards, submerge to a minimum depth of 9 feet, retrieve a 10-pound brick from the bottom, return it to the surface, and bring it back to the starting point. If students cannot complete this, they will be guided into a more appropriate swim class.

Credits: 3

Every Semester

SPS 107 Adapted Aquatics for People with Lupus

This course introduces principles of exercise in an aquatic environment and approaches to adapt aquatic exercise for people with Lupus. Through lecture, simulations, laboratory and hands-on experience students learn about Lupus and how to organize and adapt activities to meet each individual's needs. Students will support participants with Lupus in the aquatic sessions and will develop knowledge and leadership skills in co-leading sessions. Students will learn principles of safety in the aquatic environment and how to assist people effectively.

Credits: 3

Every Fall

SPS 109 Self-Defense

An opportunity for both women and men to learn, from a woman's perspective, to become aware of violent behavior, to prevent high-risk situations and to respond to such situations effectively. Open to all students interested in learning to prevent physical and sexual assaults, violent street encounters and domestic violence.

Credits: 1

On Occasion

SPS 110 Beginning Tennis

Fundamentals of forehand backhand and serve techniques. Overview of game rules, etiquette, scoring and playing tactics. This course has an additional fee.

Credits: 1

Every Semester

SPS 111 Scuba Diving

The PADI Open Water Diver course teaches student divers the fundamental knowledge and skills they need to scuba dive with a partner, independent of supervision. Throughout the course, one will learn fundamentals of scuba diving, including dive equipment and techniques. This course covers breathing in an underwater environment, underwater exploration, knowing your limits, planning a dive and dealing with emergency and special situations. The course includes in-class lectures and in-water practice. Three credits. Prerequisites: Each student must demonstrate ability to: 1) 100 meter/yard swim; 2) 15 meter/50 foot underwater swim; 3) 15 minute tread water; 4) If students cannot complete this, they will be guided into a more appropriate swim class.

Credits: 3

On Occasion

SPS 112 Introduction to Ashtanga Yoga

This course will give students an introduction to the foundations of Ashtanga Yoga's Primary Series. The focus will be on practice, with an emphasis on the integration of breathing, posture, and mental concentration.

Credits: 2

Every Fall and Spring

SPS 114 Intelligent Movement

As the song "Hip Hop Lives," by KRS-One, breaks it down, "Hip is the knowledge, hop is the movement. Hip and Hop is intelligent movement. Or relevant movement ..." But how exactly do we recognize and generate intelligent, relevant movement? We will examine the physiological and neurological principles of relevant movement, and how they work in relation to our often constrained urban environment and cultural contexts. Particular emphasis will be placed on how to create the conditions for learning improved ways of moving both for oneself and others. This course is relevant for anyone interested in improving function, including all modes of training, rehabilitation,

health, sports, and performance.

This course will take place in the lab, where students will engage in practical explorations of functional movement patterns, developing a working, sensory knowledge of effective movement and optimal modes of learning.

Credits: 1

On Occasion

SPS 116 Beginning Karate

Students will learn a series of karate skills and techniques designed to enhance fitness, coordination and health. Students will also gain an understanding of the physiological principles about learning and movement of karate.

Credits: 1

Every Semester

SPS 117 Intermediate Karate

A continuation of SPS 116. Emphasis is placed on advanced combinations and techniques of karate.

This course has an additional fee.

The pre-requisite of SPS 116 is required or permission of the Division.

Credits: 1

On Occasion

SPS 119 Yoga Therapy

This course provides an introduction to yoga therapy, both in its own terms, and in the context of scientifically-valid approaches to the promotion of health, wellness, and preventative medicine. Students will come away with an understanding of Yoga's place in the broader context of exercise physiology in general, as well as its unique contributions to and potential for applied therapeutic interventions.

Credits: 3

Every Fall and Spring

SPS 120 Anatomy of Exercise

This course will investigate the mechanics of movement and the means by which movement can be analyzed and improved. Techniques of exercise and involved anatomy will be emphasized. Focus on muscle function and physiology will be covered as it relates to specific exercises.

Credits: 3

Every Fall

SPS 123 Urban Yoga, Principles & Practice

Students will read and discuss several aspects of Yoga's place in the contemporary world, in the context of its historical, philosophical, and sociological implications. The lecture component will be supported and complimented by regular practice in the lab, so that students come away with an understanding of both the theoretical and practical aspects of yoga, as well as the relationship between them.

Credits: 3

Every Fall and Spring

SPS 133 Special Olympics Coaching and Event Management

This course is designed to introduce and prepare coaches and sports management coordinators to the basic structures and principles of Special Olympics. Sports-specific skills, strategies, coaching philosophy and planning, safety and risk management will be examined and applied within the Special Olympics model. The goal of the course is to develop students with competency in Special Olympics coaching and game/event management.

Credits: 3

On Occasion

SPS 140 CPR and First Aid for the Health Care Provider

This course will deal with protocols related to the recognition, evaluation, and initial treatment of injury and illness in the sport, physical activity, or other healthcare settings. Emphasis will be placed on the interactions of the student with a variety of populations regarding injury recognition and care. Students will receive instruction in CPR for the Health Care Provider (infant, child and adult), trained in the use of an automatic external defibrillator (AED) and basic first aid care as related to a variety of settings. Students will have the opportunity to earn certification at an additional cost. This course is appropriate for students in Sports Sciences, Health Sciences, and other Health Profession or Nursing Programs.

Credits: 3

Every Fall and Spring

SPS 142 Basic Principles of Athletic Training

A presentation of the principles of prevention, recognition, and management of athletic injuries. Also included are pertinent administrative, psychosocial and pharmacological issues and an overview of the mechanics of injury, athletic equipment, and taping. This course requires additional lab time other than the standard meeting times listed in the schedule of classes. This course has an additional fee.

The pre-requisite or co-requisite of BIO 131 is required.

Credits: 3

Cross-Listings: PE 142, SPS 142

Every Fall and Spring

SPS 143 Responding to Emergencies in Sport and Physical Activity

This course will deal with protocols related to the recognition, evaluation and initial treatment of injury and illness in sport/physical activity settings. Emphasis will be placed on the interactions of the athletic training student with a variety of settings regarding injury and illness recognition and providing care. Students will receive instruction in CPR for the Professional Rescuer, (infant, child, and adult), trained in the use of an automatic external defibrillator (AED) and first responder care. Students will have the opportunity to earn certification at additional cost. This course requires additional lab time other than the standard meeting times listed in the schedule of classes.

Credits: 3

Every Fall and Spring

SPS 144 Taping, Bracing and Protective Athletic Equipment in Sports

This course is designed to provide the student with the knowledge and skills necessary to master the use of prophylactic and therapeutic taping, wrapping, bracing and padding techniques. Emphasis will be placed on the proper use of athletic tapes, plastics, felts and other protective athletic equipment. A portion of the class will be lecture in nature, with a large emphasis in Athletic Training laboratory practice and mastering techniques. Only open to Athletic Training Majors.

In order to register for this course the student must be in the Athletic Training plan and complete SPS 142

Credits: 3

Every Fall

SPS 146 Principles and Philosophy of Coaching I

A study of theory and methods of coaching in elementary, secondary schools and collegiate settings. A focus on administrative, organizational and interpersonal skills for potential coaches. The course will also address planning and teaching sports skills and strategies with recommendations concerning the mechanics of coaching.

Pre-requisite of SPS 21 or SPS 22 is required.

Credits: 3

Cross-Listings: PE 146, SPS 146

Every Spring

SPS 148 Nutritional Aspects of Fitness and Sport

A study of the basic nutritional principles related to fitness and sport. Topics covered include the role of nutrients in physical performance, special concerns during exercise in the heat, and special dietary considerations related to endurance and non-endurance sports.

The pre-requisite or co-requisite of SPS/PE 152 and SPS/PE 156 are required or permission of the Division.

Credits: 3

Every Spring

SPS 149 Exercise and the Older Adult

This course is designed to provide students with the theoretical knowledge base concerning the human aging process and the effects of physical activity in the senior adult population. Physiological changes in the cardiopulmonary, musculoskeletal system, nervous system, and sensory systems will be discussed. Students will learn to adapt and modify exercises to accommodate the systemic changes in the older adult. Nutrition, pharmacological prescriptions and abuse, and promoting fitness for older adults. Students will learn how to perform fitness testing/assessments and lead exercise classes for the senior adult population. Lectures and laboratory activities.

The pre-requisites of SPS/PE 152 and SPS/PE 156 are required.

Credits: 3

Every Spring

SPS 150 Motor Learning

Using a conceptual model of human performance, students apply a problem-based approach to teaching motor skills. Various instructional strategies and program designs will be presented.

The pre-requisites of SPS 51 and SPS 21 or SPS 22 are required or permission of the Division.

Credits: 3

Cross-Listings: PE 150, SPS 150

Every Spring

SPS 151 Functional Kinesiology

The class explores the science of human motion from a neuromuscular perspective. Emphasis will be on the application of knowledge relative to the movements, vocabulary and training principles in health sciences. Areas of course emphasis will include: Functional anatomical review of the musculoskeletal system, review of muscle morphology and an examination of movement patterns and configurations.

Pre-requisite of BIO 131 is required.

Credits: 3

Cross-Listings: PE 151, SPS 151

Every Semester

SPS 152 Exercise Physiology I

This course will consider the physiologic effects of exercise on the human body, covering topics such as bioenergetics, energy transfer and thermogenesis. The effect of activating on several physiologic support systems (i.e. pulmonary, circulatory, neuromuscular, and hormonal) will be discussed in detail. This course is designated as the writing intensive course for Sports Sciences majors and fulfills the University's requirement for Writing Across the Curriculum.

The pre-requisite of BIO 131 or CHE 3X is required.

Credits: 3

Cross-Listings: PE 152, SPS 152

Every Fall

SPS 154 Adapted Physical Education I

This course provides students with an understanding of the physical, psychosocial and medical characteristics of people with various disabilities. Based on assessment, students learn to adapt exercise, physical activity and sports programs to the unique abilities, needs and preferences of each individual. In addition, students learn to analyze case studies and write individualized education plans (IEPs) in Adapted Physical Education. This course has an additional fee.

The pre-requisite or co-requisite of PE 151/SPS 151 is required.

Credits: 3

Cross-Listings: PE 154, SPS 154

Every Fall

SPS 156 Evaluation in Health and Fitness

This course combines measurement and evaluation,

theory coupled with laboratory experiences in the physical assessment of health and fitness. The objective of this course is to provide the student with a broad understanding of pre-participation screening, risk stratification and assessment of strength, muscular endurance, muscular power, body composition, and flexibility.

Credits: 3

Cross-Listings: PE 156, SPS 156

Every Semester

SPS 157 Fitness Evaluation for Athletic Performance

This course will provide students with a broad understanding of the evaluation of athletic ability. Through a combination of theory with actual measurement and evaluation, students will learn how to properly assess muscular strength, speed, agility, muscular power, body composition, flexibility and other attributes necessary for athletic competition.

Credits: 3

Every Fall

SPS 162 Introduction to Clinical Education in Athletic Training

This course is designed to introduce the athletic training student to the principles and practice of clinical skills involved in Athletic Training. Students will be assigned to a Preceptor at an approved clinical affiliation. The course is designed to acclimate the first year ATS to the clinical environment. Students will be introduced to injury evaluation process, organization and administration of an Athletic Training Facility, and begin to develop ethical and professional behaviors. Students will be required to complete a minimum of 100 hours at their assigned clinical site and attend all class meetings. Open only to Athletic Training majors.

The pre-requisite of SPS 142 is required.

Credits: 3

Every Fall

SPS 163 Practicum Experience

Opportunity for students to be involved in an applied working environment that may be related to their career interest. Working with an assigned faculty member, students must present a detailed outline of proposed practicum including learning objectives, activities and outcomes. Can be used as an internship type placement with an off-campus organization and/or at LIU under the auspices of a Division of Athletic Training, Health and Exercise Science faculty member. Students will begin to develop ethical and professional behaviors. Students will be required to attend all classes and complete a minimum of 60 hours at their assigned practicum site. This course requires additional hours other than the standard meeting times listed in the schedule of classes.

The pre-requisite of SPS/PE 156 is required.

Credits: 3

Every Semester

SPS 164 Field Experience

This course is an opportunity for students to apply knowledge and skills at an assigned field experience site according to their field of study. Each student will work closely with their site supervisor and faculty adviser to complete assignments. Students will be required to attend all classes and complete a minimum of 90 hours at their field experience site. This course requires additional hours other than the standard meeting times listed in the schedule of classes. This course has an additional fee.

The pre-requisite of SPS 163 is required.

Credits: 3

Every Semester

SPS 165 Clinical Education in Athletic Training I

This course will require the students to apply their knowledge in a hands-on, practical environment suitable for athletic training students. Each student will be assigned to a clinical situation according to each individual plan of study. The focus of SPS 165 is on the lower extremity, including the hip, groin, pelvis and abdomen and thorax. The student is responsible for the recognition, evaluation, and immediate care of athletic injuries to this region, while under the direct supervision of a Preceptor. This course requires additional hours (minimum of 150 hrs) in the clinical setting in addition to the standard meeting times listed in the schedule of classes. Only open to Athletic Training majors.

The pre-requisite of SPS 172 is required and it is only open to Athletic Training majors.

Credits: 3

Every Spring

SPS 172 Advanced Athletic Training I

An advanced course in athletic training that addresses the recognition, evaluation, assessment and immediate care of musculoskeletal injuries. The focus is on-field and off-field evaluation of the lower extremity, abdomen and thorax. Lecture and laboratory experiences include palpation, range of motion assessment, muscle and special tests, neurological and vascular assessment, and immediate treatment of each body area. This course has an additional fee. Only open to Athletic Training majors.

The pre-requisites of BIO 131 and SPS 142 are required and it is only open to Athletic Training majors.

Credits: 3

Every Fall

SPS 173 Advanced Athletic Training II

An advanced course in athletic training that addresses the recognition, evaluation, assessment and immediate care of musculoskeletal injuries. The focus is on-field and off-field evaluation of the upper extremities, including the spine, head and face. Also various skin disorders and general medical conditions are explored. Lecture and laboratory experiences include palpation, range of motion assessment, muscle and special tests, neurological and vascular assessment, and

immediate treatment of each body area. This course has an additional fee. Only open to Athletic Training majors.

The pre-requisites of SPS 172 and PHY 20 are required.

Credits: 3

Every Spring

SPS 174 Adapted Physical Education II

An advanced course in adapted physical education that emphasizes inclusive fitness programming for persons with disabilities. Assessing and conducting fitness programs and exercise for various individuals are emphasized.

The pre-requisite of SPS 154 is required.

Credits: 3

On Occasion

SPS 176 Introduction to Sport Management

Through learning activities, professional profiles, case studies and international examples, students gain a strong foundation in diverse areas in the field of sports management. This includes ethical, and legal aspects of sports management, publicity and public relations, finance, critical thinking and sport management research. This will be accomplished through lectures, guest speakers and class discussions.

Credits: 3

Every Fall

SPS 177 Branding in Sports Culture

This course will walk students through the process of brand development and students will study several intriguing brands in today's sport marketplace. Students will learn how several brands were built, the impact a sport-marketing agency can have on a brand and how to promote brand awareness and attributes.

Credits: 3

Every Fall

SPS 180 Sports Psychology

A review of the application of psychological concepts to the study of sports performance. Students learn how to create a positive environment for performance enhancement by incorporating such factors as motivation, concentration, relaxation, goal setting, athletic injury, recovery and mental imagery.

The pre-requisite of PSY 3 is required or permission of the Division.

Credits: 3

Every Spring

SPS 181 A Business Model: The NBA Nets Transition from New Jersey to Brooklyn

This course will take a look behind the scenes of the New Jersey Nets. The NETS will begin the 2012-2013 season in the borough of Brooklyn and are currently implementing a business model to make this transition successful. Students will review and critique their business model while learning a broad range of competencies including facility construction and management, building and

crafting a championship franchise under the new collective bargaining constraints, marketing strategies and branding the NBA NETS in Brooklyn. Lecture and class projects include visits to the NETS Arena, NETS corporate office and NETS League office.

Credits: 3

On Occasion

SPS 182 Exercise Physiology II

This course is designed to give students a theoretical and practical understanding of acute and chronic responses to exercise responses to exercise in a variety of internal and external environments. Particular attention will be paid to advanced exercise physiology concepts. Special topics to be covered include, but not limited to electromyography, electrocardiography basics and interpretation, anaerobic and aerobic training responses, endothelial function, performance at altitude, and performance in diving. Applied laboratories and virtual laboratories will allow you to explore more specifically the physiological basis of performance and human response to training and conditioning. Open to students in the Exercise Physiology track or Athletic Training. Permission required of all other students.

The pre-requisite of SPS/PE 152 is required.

Credits: 3

Every Spring

SPS 186 Sport Facilities and Event Management

A study and systematic guide to the management issues and practical problems that sports managers must address to ensure financial, sporting and ethical success. The course will cover event and facility management, feasibility assessment, market research, event bidding and branding, risk analysis, contract and project management, corporate structure, budgeting as well as economic, social, community and environmental issues. The course will consist of both classroom and field experience. Students will be required to devote approximately 10 hours outside of class toward managing an on-campus NCAA Division I sports event. The students will be assigned a project that will require them to attend the event and all related functions, such as preparing the facility, managing ticket sales, promotions and marketing the event.

The pre-requisite of SPS 176 is required.

Credits: 3

Every Spring

SPS 189 Basic Biomechanics and Motion Analysis

This course will provide students with a fundamental understanding of mechanical principles and how those principles can be utilized to analyze human movement. Analysis of human movement with simple video, as well as 2 and 3-D motion capture and force platform technology will be introduced. The course will apply both qualitative and quantitative analysis of human movement to develop the student's observation and problem solving skills. Analysis of movement/sports

skills, graphical presentation of kinematic and kinetic data, and simple projects will be conducted and presented in a laboratory setting. Students must spend an additional weekly hour in the motion capture lab. Information will be presented and evaluated in the classroom and laboratory.

The pre-requisites of SPS/PE 151 and PHY 20 are required.

Credits: 3

Every Spring

SPS 190 Neuroscience

This course will provide students with a basic understanding of the nervous system anatomy, its structure, and its function in health and exercise. Each part of the nervous system, including the brain, the spinal cord and the peripheral nerves is presented through lectures and labs emphasizing both anatomy and physiology. This course has an additional fee.

Pre-requisite of BIO 131 is required.

Credits: 3

Every Fall and Spring

SPS 191 Leadership in Sports Management

This course examines the successful and powerful leadership methods of legendary coaches such as John Wooden and Mike Krzyzewski. Students learn how to put into practice their values, principles and lessons into the business of sport, including developing team culture, striving for personal excellence, improving productivity and building trust and relationships. Students will develop the skills to assess the strength of an organization as well as identify and address the areas of need and growth. The main topics of the course will include: communication, decision making, managing change, motivation, staffing and teamwork. Students will stay current with leadership and management issues in sports as reported in the New York Times, Sport Business Journal, USA Today, and other publications. Each week, we will discuss the application of reading assignments to breaking sports news stories. Guest speakers from the world of sports will be invited to share their leadership philosophy and experience with the class.

Credits: 3

Every Fall

SPS 194 Senior Project

With the approval of faculty, a student identifies and conducts an intensive review of a topic within his or her area of concentration. The student must submit a written project and orally defend the work at the end of the course.

Credits: 3

Every Semester

SPS 195 Culmination in Sports Sciences

This course will provide students with an opportunity to apply the knowledge, theory, techniques and skills they learned throughout their academic career as a sports science student in the Division of Athletic Training, Health and Exercise

Science. Students will perform a functional and dynamic movement assessment and identify goals and objective. Students will be required to design an appropriate program for their client and develop a professional plan for the future. Students will be evaluated as to their expertise in areas of fitness health including, but not limited to, intake, assessment, program design, reassessment, analysis of results and presentation of results.

Credits: 3

Every Semester

SPS 197 Culmination in Sports Sciences

Each student will work closely with a faculty member or clinical supervisor to complete a research project or clinical rotation. Students will be required to complete a minimum of 90 hours. This course requires additional hours other than the standard meeting times listed in the schedule of classes. This course has an additional fee.

Credits: 3

Every Semester

DIAGNOSTIC MEDICAL SONOGRAPHY PROGRAM

Associate Professor and Chair: Kerry E Weinberg M.A., M.P.A., RT(R), RDMS, RDCS, FSDMS
 Director of Clinical Education: Ellen Tuchinsky, B.A., RDMS., RDCS.
 Adjunct Faculty: 11

Sonography (DMS) uses high frequency sound waves (ultrasound) to produce a dynamic visual image of internal organs, tissues, or blood flow inside the body. It is a mode of non-invasive imaging that is widely used in medical practice. The DMS program is a Bachelor of Science program that builds skills in diagnostic imaging upon a strong liberal arts base. Students spend their first two years in the core courses of liberal arts and sciences with additional requirements in anatomy, physiology and physics, which are essential for this allied health profession. Students enter the professional phase of their education at the beginning of their third full time academic year. During the professional phase, the curriculum sequences didactic education, scanning laboratory experience in DMS with extensive clinical (hands-on) experience. Upon completion of the program, students will be eligible to take the American Registry of Diagnostic Medical Sonography (ARDMS) examination in three different concentrations (abdominal, obstetrics and gynecology and echocardiology [adult heart]) and will have access to clinic-based careers in diagnostic medical sonography in multiple specialties.

Admission to the DMS Program

Students will be admitted to the liberal arts and sciences core through the identical admissions process and with the same requirements as the institution.

During the fall of the sophomore year (after 45 credits) students will apply to the DMS professional program. All candidates must submit the following:

1. A DMS Program Application form, including a personal statement
2. Official transcripts of all undergraduate coursework

There will be one admission cycle per year.

B.S. in Diagnostic Medical Sonography

Term: Fall 1

BIO	1 or 3	Intro. Biology	4.00
MTH	16 or 30	Math	3.00 or 4.00
ENG	16 or 16x	English	3.00
HIS	1	History	3.00

OS	1	Orientation Seminar	1.00
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Term: Spring 1

BIO	2 or 4	Life Origin	4.00
CHM	3x	Chemistry	4.00
HIS	2	History	3.00
COS	50	Core Seminar	3.00
ENG	61-64	English Literature	3.00

Term: Fall 2

BIO	131	Human Anatomy	4.00
PHY	20	Physics	4.00
PHI	61	Philosoph. Explor. I	3.00
SSC	X	Social Science Elective	3.00
ENG	61-64	English Literature	3.00

Term: Spring 2

BIO	132	Physiology	3.00
PHI	62	Philosoph. Explor. II	3.00
SSC	X	Social Science Elective	3.00
SPE	3	Oral Commun.	3.00
ENG	61-64	English Literature	3.00

Term: Fall 3

DMS	300	Abdominal Sonograph. I	3.00
DMS	275	Abdominal Cross Section Anatomy	3.00
DMS	275L	General Scanning Laboratory	0.00
DMS	250	Diagnostic Sonograph.	2.00
DMS	320	Echocar-diography	2.00

DMS	320L	Cardiac Scanning Lab	0.00
DMS	350	Sonograph. Physics I	3.00
DMS	330	Obstetrics/ Gynecol.	3.00

Term: Spring 3

DMS	310	Abdominal Sonograph. II	3.00
DMS	325	Echocar-diography II	2.00
DMS	340	Clinical I	4.00
DMS	342L	Scanning Lab II (general/ Cardiac)	0.00
DMS	320L	Cardiac Scanning Lab	0.00
DMS	335	Obstetrics/ Gynecol. Sonograph. II	3.00
DMS	355	Sonograph. Physics I	2.00

Term: Summer 3

DMS	360	Superficial Structures and Neuroson-ography	2.00
DMS	420	Echocar-diography II	2.00
DMS	345	Clinical II	4.00
DMS	380	Clinical Seminar	2.00

Term: Fall 4

DMS	400	Abdominal Sonograph. II	2.00
DMS	430	Obstetrics/ Gynecol. Sonograph. II	3.00
DMS	470	Vascular Sonograph.	2.00
DMS	440	Clinical III	5.00

DMS	425	Echocar- diography IV	2.00
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Term: Spring 4

DMS	480	Clinical Appl.	3.00
DMS	445	Clinical IV	7.00
DMS	485	Seminar	2.00

Total Credits: 129/130**B.S., Diagnostic Medical Sonography****Graduation Requirements**

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits
 English Literature 6 credits
 Philosophy 6 credits
 Foreign Language Not Required

Social Sciences

History 6 credits
 Social Sciences 3 credits
 (ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits
 Science 8 credits
 (BIO 3 and BIO 4)
 (Grade C+ or greater required)

Communication, Visual & Performing Arts

Speech 3 credits
 Visual & Performing Arts Not Required
 (ART, DNC, MUS, THE)

Ancillary Course Requirements:

Must complete the following Biology courses.

BIO	131	Human Anatomy	3.00
BIO	132	Human Physiology	3.00

Must complete the following Chemistry courses.

CHM	3	General and Inorganic Chemistry	4.00
CHM	3X	General Chemistry	4.00

Must complete the following courses.

MTH	100	Introductory Statistics	3.00
PSY	150	Statistics in Psychology	3.00

Science Core Requirement Biology

BIO	1	General Biology	4.00
BIO	2	General Biology	4.00

Science Core Requirement Physics

PHY	20	The Physical Universe	4.00
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Major Requirements**Professional Course Requirements**

DMS	250	Diagnostic Medical Sonography	2.00
DMS	275	Abdominal Cross-Section Sonography	3.00
DMS	300	Abdominal Sonography I	3.00
DMS	310	Abdominal Sonography II	3.00
DMS	320	Echocardiography I	2.00
DMS	325	Echocardiography II	2.00
DMS	330	Obstetrics and Gynecology I	3.00
DMS	335	Obstetrics and Gynecology II	3.00
DMS	340	Clinical I	4.00
DMS	345	Clinical II	4.00
DMS	350	Sonographic Physics I	3.00
DMS	355	Sonographic Physics II	2.00
DMS	360	Superficial Structures and Neurosonography	2.00
DMS	380	Clinical Seminar	2.00
DMS	400	Abdominal Sonography III	2.00
DMS	420	Echocardiography III	2.00
DMS	425	Echocardiography IV	2.00
DMS	430	Obstetrics and Gynecology III	3.00
DMS	440	Clinical III	5.00
DMS	445	Clinical IV	7.00
DMS	470	Non-Invasive Vascular	2.00
DMS	480	Clinical Applications	3.00
DMS	485	Senior Seminar	2.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:
64 credits

Minimum Total Major Credits: xx credits

Minimum Credits Above 100 Level Courses: 48
credits

Ancillary Course Requirements: See Above

Minimum Sports Science Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Diagnostic Medical Sonography Courses

DMS 250 Diagnostic Medical Sonography

This course uses class didactic instruction and laboratory experiences to prepare the student to become part of the healthcare team. Topics include: patient privacy and confidentiality; HIPPA regulations; sterile technique, blood and fluid precautions; body mechanics, lifts and transfers; ergonomics: work related musculoskeletal disorders; introduction to ultrasound system operation as well as transducer care. Also included; verbal and nonverbal communication, time management and an overview of clinical requirements.

Student must be active in the Diagnostic Medical Sonography plan and must have completed all pre-requisites. Please see the Department for a list of required courses.

Credits: 2

Every Fall

DMS 275 Abdominal Cross-Section Sonography

This course introduces cross-sectional anatomy of the abdominal and retroperitoneal cavities. Emphasis is on normal structures visible on sonography. Structures are described in terms of their location and relationship between adjacent organs and vessels. The students will be able to identify normal sectional abdominal and retroperitoneal anatomy on sonographic images. Students will be introduced to scanning protocols. Laboratory sessions reinforce what has been covered in the sonographic didactic coursework in terms of sonographic terminology and emphasizes proper annotation, scanning techniques and instrumentation (including transducer location, image and scanning planes, image orientation) to optimally image the organs in the abdominopelvic cavity. The importance of the prevention of musculoskeletal injuries (MSI) is stressed.

Student must be active in the Diagnostic Medical Sonography plan and must have completed all pre-requisites. Please see the Department for a list of required courses.

Credits: 3

Every Fall

DMS 300 Abdominal Sonography I

This course introduces the basic anatomy of the abdomen in conjunction with the corresponding sonographic images and imaging planes. Various diseases at different stages of progression of the abdominal organs are presented along with their sonographic presentation. Proper abdominal scanning protocols of the abdomen are covered.

Student must be active in the Diagnostic Medical Sonography plan and must have completed all pre-requisites. Please see the Department for a list of required courses.

Credits: 3

Every Fall

DMS 310 Abdominal Sonography II

The course introduces the cause and effect of the various disease states of organs and vessels in the abdomen and retroperitoneum. To accomplish this objective, general anatomy will be reviewed, the relationship of one organ system to another will be discussed, and the pathologic process of a disease will be traced including its clinical manifestation, relevant laboratory data, diagnostic tools used to evaluate the disease and its ultimate culmination. The course familiarizes the students with the sonographic images that are representative of the diseased and non-diseased states of the abdominal organs and vasculature.

The following pre-requisites of DMS 250, 275, 300, 320, 330 and 350 are all required and the student must be active in the Diagnostic Medical Sonography plan.

Credits: 3

Every Spring

DMS 325 Echocardiography II

Different methods of evaluation of heart diseases are presented, including EKG, stress testing, cardiac catheterization and abnormal heart sounds.

Valvular disease, prosthetic valves, pericardial disease, the disturbance of coronary blood flow and its effect on heart function is taught. In addition, Doppler principles and their use in the evaluation of valvular diseases will also be discussed. The laboratory sessions use hand-on training to reinforce proper ergonomics, cardiac scanning techniques, patient positioning and transducer placement. The use of instrumentation including Doppler and color to optimize images for diagnosis will be stressed.

The following pre-requisites of DMS 250, 275, 300, 320, 330 and 350 are all required and the student must be active in the Diagnostic Medical Sonography plan.

Credits: 2

Every Spring

DMS 330 Obstetrics and Gynecology I

This course introduces sonographic terms, reference planes and the basic anatomy of the female pelvis in both the gravid and non-gravid states. The specific identification, interpretation and recording of the relevant sonographic images needed to provide correct diagnoses are presented. Proper protocols for performing pelvic ultrasound examinations and obstetrical exams are emphasized. Normal anatomy, some more common pathological states and vascularity of the gravid and non-gravid uterus, ovaries, adnexa, bladder and pelvic musculature, as well as the developing fetus is covered. How the aforementioned appear sonographically is included. The normal development of multiple gestations and potential pitfalls and pathological states is presented.

Student must be active in the Diagnostic Medical Sonography plan and must have completed all pre-requisites. Please see the Department for a list of required courses.

Credits: 3

Every Fall

DMS 335 Obstetrics and Gynecology II

The sonographic appearance of a gravid uterus in both the normal and pathological state as well as postpartum changes and maternal disease states is presented. Normal and abnormal fetal development will be studied. The course delves into embryonic development of the female genital system and congenital anomalies. The course covers infertility workups and procedures such as amniocentesis and chorionic villous sampling and the correlation with ultrasound. A review of normal pelvic anatomy will be discussed as well as pathological conditions associated with this region. Endovaginal scanning is introduced and sonographic imaging techniques stressed.

The following pre-requisites of DMS 250, 275, 300, 320, 330 and 350 are all required and the student must be active in the Diagnostic Medical Sonography plan.

Credits: 3

Every Spring

DMS 340 Clinical I

The actual clinical training consists of supervised hands-on work with patients, discussion of cases with sonographers and physicians and exposure to a variety of duties necessary to function in a clinical facility engaged in sonography/echocardiography. State of the art equipment from various manufacturers is available for student use providing a broad professional experience. Projects submitted will consist of limited studies demonstrating understanding of proper sonographic examination protocols and patient history documentation.

The following pre-requisites of DMS 250, 275, 300, 320, 330 and 350 are all required and the student must be active in the Diagnostic Medical Sonography plan.

Credits: 4

Every Spring

DMS 345 Clinical II

This course provides students with continued work experience in a hospital, clinical or other patient care setting. Students conduct sonographic examinations under direct and indirect supervision while continuing to improve their communication, professionalism and critical thinking skills. Submitted projects will demonstrate increasing sonographic skills in terms of images, labeling and proper/optimal machine use.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 4

Every Summer

DMS 350 Sonographic Physics I

This course reviews mathematical skills necessary for the study of sonographic physics and defines basic concepts. The mathematical review includes unit conversions, scientific notation, the metric system, decimals, binary numbers and algebraic

equations. The main focus of the course is on tissue properties and the interaction with sound waves, attenuation, impedance, reflection, refraction, scattering, TCG and gain settings.

Transducer function and an introduction to transducer design are also included.

Student must be active in the Diagnostic Medical Sonography plan and must have completed all pre-requisites. Please see the Department for a list of required courses.

Credits: 3

Every Fall

DMS 355 Sonographic Physics II

This is course with an in-depth presentation of ultrasound machine components. Various types of instrumentation, the design and function of ultrasound imaging systems, the importance of sensitivity controls, transducer assembly, sound beams and focusing are thoroughly discussed. Transducer selection, comparison of transducer types and arrays, their advantages and disadvantages, biological effects and the AIUM testing objects are also covered.

The following pre-requisites of DMS 250, 275, 300, 320, 330 and 350 are all required and the student must be active in the Diagnostic Medical Sonography plan.

Credits: 2

Every Spring

DMS 360 Superficial Structures and Neurosonography

The student will be introduced to the normal anatomy and the pathological conditions of the brain including intracranial hemorrhage, anatomical anomalies and infection sonographic structures of the neonatal brain and spine. The student will also be introduced to the care required for imaging the neonate, especially the premature infant. The student will be introduced to the methods of examination and the indications for use. Students will also be introduced to musculoskeletal scanning, thyroid and parathyroid sonographic evaluation. Additionally, the uses of transrectal sonography, with emphasis on the prostate examination including normal anatomy and pathology. Indications for the use of the exam as well as the exam procedure are described.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Summer

DMS 380 Clinical Seminar

Emphasis is placed on the medical imaging environment and its role in emergency hazard preparedness. The students will examine challenges that shaped the field of diagnostic medical sonography, history of sonography, professionalism, medical ethics and current topics to prepare them for a career in sonography/echocardiography.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Summer

DMS 400 Abdominal Sonography III

The course provides an intensive overview of superficial organs, abdominal, retroperitoneal sonography integrating cross-sectional imaging, color flow and Doppler studies, clinical findings and sonographic presentation of normal and abnormal states. It focuses on case reviews, incorporating sonographic images with other diagnostic modalities for the final diagnoses.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Fall

DMS 420 Echocardiography III

This course provides an in-depth use of Doppler, and includes alterations in the Doppler patterns in various disease states, and presents normal and abnormal Doppler values for pulsed wave, continuous wave and color Doppler along with spectral tracings. The student will also know the concept of flow disturbances, general principles for flow measurement and computations of pressure.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Summer

DMS 425 Echocardiography IV

This course provides students with a comprehensive description of the etiology and epidemiology of the diseases affecting the heart and related structures. Advanced techniques used to diagnose cardiac diseases, stress echocardiography, transesophageal, intraoperative echocardiography, intervention echocardiology, echo guided procedures, 3D, tissue Doppler imaging and the use of contrast medias will also be included.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Fall

DMS 430 Obstetrics and Gynecology III

This course reinforces fetal growth and normal obstetrical anatomy. Fetal assessment in the second and third trimester with emphasis on fetal structural abnormalities, genetic abnormalities and syndromes is presented. Clinical findings, sonographic presentation, color flow and Doppler studies and the use of 3D and 4D are also covered.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 3

Every Fall

DMS 440 Clinical III

This internship gives the student the opportunity to communicate effectively and cogently with physicians, sonographers and patients. In a hospital setting, students perform Doppler evaluation of abdominopelvic vessels as well as Doppler studies of

the heart. The student should be able to do full color and spectral analysis. The student must be working with limited supervision at this point and doing outside reading to further their knowledge. Fuller studies are to be completed and documented properly.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 5

Every Fall

DMS 445 Clinical IV

The clinical experience enables the student to perform sonographic studies on patients and the student must be working independently at this point and doing outside reading to further their knowledge. Full studies are to be completed and documented properly. The student should be concentrating on increasing their speed, accuracy and technical ability. The student is expected to perform Doppler evaluation of abdominopelvic vessels as well as Doppler studies of the heart. The student should be able to do full color and spectral analysis. The student should be familiar with adjunct imaging modalities (i.e. MRI, CT, X-ray, etc.)

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 7

Every Spring

DMS 470 Non-Invasive Vascular

This course introduces the students to the understanding of duplex sonography for the investigation of the extracranial circulation of the brain, the venous and arterial circulation of the lower extremity. The student will also distinguish normal and pathological situations by the use of Doppler and color.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Fall

DMS 480 Clinical Applications

This course reinforces the student's ability to improve their interpretation skills in OB/GYN, Abdominal sonography and Echocardiography by the use of image review and case studies. Students are expected to review and enrich their classroom work by incorporating their communication and critical thinking skills and practical knowledge by means of case studies and journal article presentations. Students are also required to go online to review CME articles and take the CME tests.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 3

Every Spring

DMS 485 Senior Seminar

This course prepares the student for a career in sonography by reinforcing interviewing skills, resume writing, communication skills, technical

writing. In addition students will review computerized test taking skills required for their national credentialing examination, and exposing them to mechanisms to keep current in advances in sonography and professionalism.

The student must be in the Diagnostic Medical Sonography plan in order to register for this course.

Credits: 2

Every Spring

DEPARTMENT OF OCCUPATIONAL THERAPY

Chairperson: Katherine Dimitropoulou, Ph.D.,
OTR/L, Associate Professor

Dale Coffin, M.A., OTR/L, Assistant Professor,
Academic Fieldwork Coordinator

Associate Professor: Michael Saraceno, M.A.,
OTR/L, CHT

Assistant Professors: Marta Daly, MA, OTR/L;
Lisa Gordon-Handler, MA, Ph.D., OTR; Cindy
Supawadee Lee, Ph.D., OTR/L; Doris Obler,
Ph.D., M.S.W., OTR/L; Michael Pizzi, MS, Ph.D.
OTR; Holly Wasserman, M.S. OTR/L Associate
Professor, Evening/Weekend Program Coordinator
Adjunct Faculty: 17

The Occupational Therapy Program offers a dual B.S./M.S. degree. It is designed to educate entry-level occupational therapists whose skills and training prepare them to practice competently in the rapidly changing urban health care environment and to equip patients and clients with skills for the workplace and for home. The occupational therapy curriculum offers students the opportunity to focus on individual professional growth, to participate in community-service learning, to refine cultural sensitivity and practice skills, to use health promotion in community settings, to utilize activity to promote health and independence, and to develop the skills required to treat the whole person.

The Occupational Therapy Program is approved by the New York State Education Department and the Accreditation Council for Occupational Therapy Education. Occupational therapy is an upper-division professional program, spanning three years of full-time professional academic courses and clinical work that is integrated with several community-service learning experiences. The professional phase of the program also may be completed on a part-time basis over four years. Students must complete the liberal arts and sciences core curriculum, which offers a rich base of sciences, humanities and social sciences, before entering the professional phase of the program; a minimum of 64 credits in the liberal arts and sciences for the baccalaureate degree are required.

Occupational therapy is a vital health-care and rehabilitation profession whose practitioners help clients to develop or restore and sustain the highest quality of productive life to persons recovering from illness or injury. Occupational therapy is the therapeutic use of self-care, work/productive tasks and play/leisure activities to increase independent function, enhance development and prevent disability. The term occupation refers to activities that are meaningful to the individual within the environments in which the person lives and functions. Occupational therapy promotes healthy lifestyles, prevents disability and facilitates active participation through occupation. It includes adapting tasks and the environment to maximize independence and quality of life. Occupational

therapists help people adapt to changes resulting from disability and the aging process, focus on illness and injury prevention, and promote healthy and satisfying lifestyles for people of all ages.

Our faculty is actively involved in promoting community health and wellness through funded research and programs assisting people to achieve their highest level of functioning within the context of their own communities. Our students are involved in these activities as part of their training since their first year in our program. Using a variety of teaching methods and the integration of technology in the coursework, our students develop a comprehensive understanding of practice and build their research skills. Embedded in our curriculum are activities that enhance students' communication and critical thinking skills contributing to personal and professional growth. Our students are prepared for successful clinical careers and leadership roles within their professional community.

ADMISSIONS

Our program presents an excellent opportunity for high school students who want to pursue a degree in occupational therapy. High school students can complete a B.S./M.S. degree in Occupational Therapy in 5 years (2 years for the completion of the pre-requisites and 3 years for the professional phase of the program). Our program also presents a great opportunity for college students and college graduates with a degree in another field who want to pursue a career in occupational therapy.

Students seeking the entrance into health and human service professions should be aware that the presence of a criminal record can result in the refusal of licensing/certification/registration agencies to issue the credential needed to practice in the field of study. Prospective students are urged to contact the pertinent state and/or federal licensing board to inquire whether a criminal record will have an impact on your eligibility to obtain licensure or certification. A criminal conviction and/or the use of illegal drugs may impede licensure in New York State. Students who have had a prior conviction are advised to contact NBCOT (www.nbcot.org) for clearance before beginning their academic program. For a fee, NBCOT will review the circumstances which led to a conviction and the individual's personal record and render a decision concerning whether or not the individual would qualify to work as an occupational therapist.

Application Policies and Procedures

Both high school graduates and college transfer students may apply for admission to the Occupational Therapy Program, to which the following criteria apply:

Application Process for High School Students:

Students must have a minimum high school average of 85 and a minimum combined Scholastic Aptitude Test score of 1000 to apply as a pre-occupational therapy candidate. They need to apply using the LIU main application system from

our Admissions office:

www.liu.edu/Brooklyn/Admissions. Upon acceptance students need to complete 64 pre-requisites and then apply for the professional phase of the program (please see details below). In order to maintain status as a pre-occupational therapy candidate and to apply to the professional phase of the program, students must maintain a minimum cumulative grade-point average of **3.0 in liberal arts and sciences courses. Grades below a C - are not acceptable in prerequisite courses.** Please be note that LIU pre-occupational therapy students do not automatically enter the professional phase of the program. All students go through the application and selection process outlined below.

Application and Selection Process for College Students and Graduates:

The Department of Occupational Therapy accepts transfer students with or without a degree. Transfer students can use one of the two procedures listed below for applying to our program:

- The OTCAS system: www.otcas.org.

If you choose this system you do not need any additional applications or documents other than what the OTCAS requires. Please follow the directions that the OTCAS system provides and complete their on-line application. Our department has direct access to those records.

- Directly apply to LIU:

www.liu.edu/Brooklyn/Admissions.

All transfer students or LIU graduates must **first** apply directly to the Office of Admissions (718-488-1011) by filling out the on-line undergraduate application (see link listed above). **Part Two – OT PROGRAM APPLICATION (for all applicants)**

Applicants who do not apply through OTCAS must also fill out an *OT Program Application*. You can find the application on-line at www.liu.edu/Brooklyn/Admissions/Forms-Documents, or you can request a hard copy at Department of OT at 718-780-4508. You also need to submit three letters of recommendation on Departmental Forms.

Pre-OT and/or other majors (LIU) students can apply directly to the Department of OT at LIU (no OTCAS application is necessary). Admission application and reference letter forms can be obtained from the OT Department (5th Floor, *Health Science Building, Room 512, 718-780-4508*) or on-line at www.liu.edu/Brooklyn/Admissions/Forms-Documents.

The Department of Occupational Therapy publishes the application deadline on the website. All students accepted begin the program in the fall semester of each academic year. All prerequisite courses and volunteer work **must** be completed prior to entering the program in September. We encourage students to meet with faculty in the Department of Occupational Therapy to prepare their application and to make sure that

prerequisites are completed.

INTERVIEW

All eligible students will be invited to the Department of Occupational Therapy for an interview with a faculty member so that students can become more familiar with the Program and the Campus.

LETTERS OF RECOMMENADATION

Students are required to **submit 3 letters of recommendation** on the designated reference forms of the Department (these forms are integral to the OTCAS system or can be obtained from the Department of OT, the Admissions Department, or on-line at www.liu.edu/Brooklyn/Admissions/~media/Files/Brooklyn/Admissions/Forms/BK_Admiss_undergraduateApp).

We REQUEST that letters of recommendation be completed by people who know you well—for example, college professors, academic counselors, or employers. The person completing the recommendation form **MUST** return it to you in a sealed envelope with his or her signature across the flap of the envelope. You should collect all sealed envelopes and submit them together along with your application to the Department of Occupational Therapy.

PERSONAL STATEMENT (as part of the admission packet)

In your personal statement explain your career goals, your interest in occupational therapy, past work/volunteer experience that is relevant, and if there is a specialized area of occupational therapy that interests you most. You may also wish to describe your experience with illness and disability—whether the experience is your own or that of a family member or close friend. Please include ALL required materials when submitting your application for your application to be processed.

- LIU application
- Occupational Therapy Program Application (Must be filled out completely)
- 3 Recommendation Forms (these are the only forms that we will accept)
- Official Transcript(s) (current)
- Personal Statement

Pre-requisites

College students wishing to transfer into the professional phase of the program must have a minimum cumulative grade point average of **3.0**. A **3.0** minimum cumulative grade point average is also required in both liberal arts and sciences courses. An **average G.P.A. of 3.0** in the four Biology Pre-requisite courses is preferred (BIO 3, 4, 131, 132). Science grades more than 10 years old are not acceptable. Official transcripts from all colleges and universities attended are required.

Below are the prerequisite courses for current LIU students, LIU graduates, and transfer students from other colleges/universities:

Prerequisite Courses for LIU Students and Transfer Students Without a Degree

Biology (with lab)	(Bio 3, 4)	8 credits
Anatomy (with lab)	(Bio 131)	4 credits
Physiology	(Bio 132)	3 credits
Finite Math	(Math 16)	3 credits
Statistics	(Math 100, Psy 150)	3 credits
General Psychology	(Psy 3)	3 credits
Developmental Psychology	(Psy 107)	3 credits
Abnormal Psychology	(Psy 110)	3 credits
English Composition	(Eng 16)	3 credits
Core Seminar	(formerly Eng 17)	3 credits
English Literature	(Eng 61-64)	6 credits
Intro Sociology or Anthropology		3 credits
History	(His 1, 2)	6 credits
Philosophy	(Phil 61, 62)	6 credits
Oral Communication	(Spe 3)	3 credits
Liberal Arts		4 credits
		*64 credits

* Each Applicant is required to complete an additional 4 credits of *Liberal Arts or Science* course work and will accept OS 1 for **one** credit and 3 credits from an elective course. Computer Science, Education, and Physical Education courses are **not acceptable** for completion of the Liberal Arts and Science requirement. The total # of prerequisite credits required for graduation is ***64 credits**. All prerequisite course work must be completed prior to initiation of professional phase course work.

VOLUNTEER WORK: 50 hours. A letter from an Occupational Therapist that confirms your volunteer hours is necessary.

Prerequisite Courses for LIU Graduates and Transfer Students With a Degree (Associate or Bachelor Degree)

General Biology (with lab)		8 credits
Anatomy (with lab)		4 credits
Physiology		3 credits
Algebra		3 credits

Statistics	3 credits
General Psychology	3 credits
Developmental Psychology	3 credits
Abnormal Psychology	3 credits
English Composition and/or Literature	6 credits
Intro Sociology or Anthropology	3 credits

***39 credits**

*The total prerequisite credit requirement for entry into the program is ***64 credits**. Completion of the 25 additional required prerequisite credits of Liberal Arts or Science course work must be evident on your transcript. Computer Science, Education, and Physical Education courses are not acceptable for completion of the Liberal Arts and Science requirement. All prerequisite course work must be completed prior to initiation of professional phase course work.

For more information about our program visit our website:

www.liu.edu/Brooklyn/Academics/Schools/SHP/Dept/Occupational-Therapy

Academic Standards

Once accepted into the Occupational Therapy Program, students must maintain a cumulative professional-phase grade point average of at least 3.0 each semester. Students also must meet standards of professional behavior with faculty, peers and clinical instructors. Upon completion of the curriculum, students are awarded a dual Bachelor of Science/Master of Science Degree in Occupational Therapy and are eligible to take the NBCOT exam.

Occupational Therapy Curriculum

The Occupational Therapy Program curriculum includes 122 credits in the professional phase of the program. Occupational therapy course offerings provide 23 credits of basic and medical science classes, 82 credits in occupational therapy theory and practice, and 17 credits of clinical education.

The developmental nature of our curriculum allows students to be introduced, practice and master, core competencies pertaining to the clinical practice of Occupational Therapy. The curriculum is brought to life through organizing strands, which serve to infuse the mission and philosophy of the program into each course. The courses are organized into sequences that aim to gradually enable students' learning and professional competency.

The organizing strands for the curriculum are:

1. Clinical reasoning/evidence-based practice/research
 2. Engagement in meaningful occupation
 3. Health promotion, prevention and wellness
 4. Professional socialization/community service
- The occupational therapy program will allow you

to:

- Focus on your individual professional growth and development
- Participate in community service learning
- Enhance cultural sensitivity and practice skills
- Use health promotion in community settings
- Develop skills to treat the whole person including physical, cognitive and psychosocial needs
- Use purposeful activity to promote health and independence
- Prepare for a successful career and leadership roles within the Occupational Therapy profession.

Students spend their first year completing 72 hours of community service that introduces them to service learning experiences related to life-span development and understanding of occupations. During the second of the curriculum students participate in an enriched clinical component (Fieldwork I) that includes several supervised part-time experiences with clients and patients of all ages, located in a variety of medical, educational and community-based organizations. In the third year, students participate for seven months in full-time fieldwork (Fieldwork II) that includes 3 rotations of 8-10 or 12 weeks in a variety of clinical, educational, or community settings (focus is on: mental health, physical disabilities, pediatrics). Students also have the unique opportunity to design and implement a four-credit research project in which they conduct a faculty mentored research project.

Community Service

Students will be prepared to ultimately work in the urban environment, which presents unique challenges to health care provision. Consistent with the mission of LIU Brooklyn to provide service to the community, occupational therapy students will participate in the Common Ground, a unique community service-learning program sponsored by the University. The curriculum emphasizes the importance of community service learning, cultural competence and the relationship of the environment to health and illness. It is critical that students have early and consistent exposure to the community facilitated through developmental learning activities. The community-based learning experiences will foster a deep appreciation of the broad spectrum of social, cultural, political, and economic forces that shape this environment and influence the individual in his/her daily activities and valued occupations.

During the course of the curriculum, students will have three placements in the community, and will participate in a capstone project in which they will develop a research project that promotes occupational therapy in a community setting or emerging practice area. This project will contribute to the goal of the occupational therapy educational program to prepare students who can effectively work in traditional and nontraditional settings (including health, social, and community agencies addressing health promotion, disease

prevention and rehabilitation needs).

Fieldwork Education

Clinical practice constitutes an integral part of the course of study. It provides an excellent opportunity for students to acclimate themselves to the health care setting, practice selected aspects of occupational therapy, observe various types of health care settings, and develop your professional competence.

The clinical practice component begins with a ten week clinical experience in the fall of the second professional year. The following clinical practice experiences gradually become more demanding and varied in nature. The program concludes in clinical internships with a minimum of 28 weeks in the fall/spring/summer semesters of your final graduate year at LIU Brooklyn (at which time students will be responsible for providing all occupational therapy services to their own caseload, under the supervision of licensed occupational therapists).

Many of our clinical/field experience affiliates now require the completion of criminal background checks and/or drug testing for employees, volunteers and students affiliated with the site. Therefore, the LIU Brooklyn students who plan to participate in a clinical/field experience may be asked to undergo a criminal background check and/or drug screen. A criminal conviction and/or the use of illegal drugs may impede or bar your entry into your chosen field of study. Students desiring entrance into the School of Health Professions should be aware that our clinical/field affiliates can reject or remove a student from the site if criminal record is discovered or if a drug test is positive. In the event that a student is rejected from a clinical/field site due to information contained in the criminal background check, or drug screen, you may be unable to complete a required clinical/field experience. If you are unable to complete program requirements, you may be advised to withdraw from the program.

Accreditation

The Occupational Therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220; (301) 652-AOTA. The program is registered with the New York State Education Department. Graduates will be eligible to sit for the national certification examination by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of that examination, the individual will be an Occupational Therapist Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

B.S./M.S. in Occupational Therapy

B.S. / M.S, Occupational Therapy Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	Not Required
Social Sciences	
History	6 credits
Psychology	3 credits
Social Sciences (ANT, SOC)	3 credits
Science and Mathematics	
Mathematics	3 credits
Laboratory Science (BIO 3 and BIO 4)	8 credits
(Grade C+ or greater required)	
Communication, Visual & Performing Arts	
Communication	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	Not Required

Ancillary Course Requirements:

Must complete Both of the Following Psychology Courses.

PSY 107	Developmental Psychology I	3.00
PSY 110	Abnormal Psychology	3.00
Choose One of the Following Stastics Courses		
MTH 100	Introductory Stastics	3.00
PSY 150	Stastics in Psychology	3.00

Pre-Professional Science Requirements

BIO 131	Human Anatomy	4.00
BIO 132	Human Physiology	3.00

Professional Phase Requirements

Year 1 Requirements

OT 100	Introduction to Occupational Therapy	2.00
OT 106	Therapeutic Skills 1: Interpersonal Skills	2.00
OT 110	Human Development and Occupation 1: Pediatrics	3.00
OT 111	Human Development and Occupation 2: Adolescence/Adults	2.00

OT 112	Human Development and Occupation 3: Geriatrics	2.00	OT 320	Theory 3: Comprehensive Models and Mental Health Sets of Guidelines for Practice	4.00
OT 119	Anatomy - Kinesiology	5.00	OT 330	Practice 1: Mental Health - Adolescents, Adults and Geriatrics	5.00
OT 120	Theory 1: Introduction	2.00	OT 420	Theory 4: Physical Disabilities Sets of Guidelines for Practice	5.00
OT 121	Medical Conditions 1: Physical Disabilities in Adolescents, Adults and Geriatrics	3.00	OT 430	Practice 2: Neurorehabilitation Adolescents, Adults and Geriatrics	5.00
OT 129	Kinesiology 2	4.00	OT 431	Practice 3: Orthopedic Rehabilitation and Orthotics: Adolescents Adults and Geriatrics	4.00
OT 140	Neuroscience	5.00	OT 432	Practice 4: Medical and Surgical Rehabilitation: Adolescents Adult and Geriatrics	2.00
OT 201	Professional Development 1: Occupational Therapy Student Academic Experience	2.00	OT 506	Therapeutic Skills 5: Technology and Assistive Devices	2.00
OT 202	Professional Development 2: Communication Skills	1.00	Year 3 Requirements		
OT 203	Professional Development 3: Advocacy and Disability Perspectives	1.00	OT 510	Level II: Fieldwork I	5.00
OT 206	Therapeutic Skills 2: Group Process	3.00	OT 511	Level II: Fieldwork II	5.00
OT 220	Theory 2: Learning Theories Applied to Practice	2.00	OT 512	Level II: Fieldwork III	4.00
OT 301	Skills for Living 1: Play and Leisure	3.00	OT 513	Level II: Fieldwork IV (Elective)	2.00
OT 302	Skills for Living 2: Work	3.00	OT 520	Theory 5: Research	3.00
Year 2 Requirements			OT 533	Medical Sciences 3: Clinical Conditions in Pediatrics	3.00
OT 122	Medical Conditions 2: Mental Health in Adolescents, Adults and Geriatrics	3.00	OT 535	Fieldwork Level I: Practice 3: Pediatrics	1.00
OT 200	Fieldwork Level I: Geriatric Practice	1.00	OT 620	Theory 6: Research Proposal Development	2.00
OT 205	Professional Development 5: Health Promotion	1.00	OT 720	Theory 7: Community Practice Education and Health Promotion	2.00
OT 210	Fieldwork Level I: Mental Health Practice: Adolescents and Adults	1.00	OT 820	Theory 8: Community Practice Research Project	4.00
OT 215	Fieldwork Level I: Physical Disability Practice: Adolescents and Adults	1.00	Credit and G.P.A. Requirements		
OT 303	Skills for Living 3: Self Care	3.00	Minimum Total Credits: 150 credits		
OT 306	Therapeutic Skills 3: Teamwork and Leadership	2.00	Minimum Total Liberal Arts and Sciences Credits: 64 credits		
			Minimum Total Major Credits Undergraduate: 84 credits		
			Minimum Total Major Credits Graduate: 33 credits		
			Ancillary Course Requirements: See Above		
			Minimum Major G.P.A.: 2.0		
			Minimum Cumulative G.P.A.: 2.0		

Occupational Therapy Courses

OT 100 Introduction to Occupational Therapy

Introduction to the profession of occupational therapy including the history, philosophy, knowledge, skills and attitudes reflective of past, current and future practice. The course content introduces students to the nature of theory and the evolution of the profession related to practice, standards of practice, core values and attitudes, ethical and legal issues, roles and tasks of occupational therapists and certified occupational therapy assistants, the organizational structure of the professional association and accreditation and credentialing bodies and international resources. Trends are examined in health care and models of practice including wellness and health maintenance and health promotion in the context of social, economic, political, demographic and cultural factors that influence the delivery of services are addressed.

The pre-requisites of PSY 107, 110 and COS 50 are required.

Credits: 2

Every Fall

OT 106 Therapeutic Skills 1: Interpersonal Skills

This course will introduce the students to professional interpersonal skills and techniques used by Occupational Therapists across treatment settings and age groups. Students will both learn and practice skills including: therapeutic use of self, interviewing/counseling skills, assertive professional communication and therapeutic interaction. Students will begin to appreciate factors relevant to disability perspectives, cultural sensitivity, client-centered care and advocacy. Students will develop in their identity as a "Helping Professional" and will show sensitivity when using new interpersonal skills in the experiential setting.

Prerequisites: PSY 107 and 110, 1 Sociology or Anthropology course and Admissions to the OT program.

The pre-requisites of PSY 107 and 110; one Sociology or Anthropology course; and Admissions to the OT program are required.

Credits: 2

Every Fall

OT 110 Human Development and Occupation 1: Pediatrics

This course focuses on bio-psycho-social development from infancy through childhood. Concepts and theories of typical human growth and development across the life span will be presented as a context for understanding behavior and occupation. Age related occupations in infancy and childhood will be examined in the context of developmental theories. Current research findings will be integrated in the course to inform occupational therapists about human growth and development in sensory, motor, cognitive and psychosocial domains. Factors influencing growth

and development including the family, the social and physical environment, daily life experience, and the unique individual characteristics of the child will be incorporated throughout the course. The role of the occupational therapist in prevention and promotion of health and well being with pediatric populations will be introduced. Through volunteer work in a community service agency, students will have opportunities to develop observation and interaction skills with children in a naturalistic setting. A comprehensive understanding of childhood occupations is achieved through class activities and community service. Community service and course assignments also provide the opportunity for students to link classroom learning to both home and community practice settings.

The pre-requisites of PSY 107, PSY 110 and admissions to the OT program are required.

Credits: 3

Every Fall

OT 111 Human Development and Occupation 2: Adolescence/Adults

This course addresses human growth and development for adolescents and adults in the areas of neurosensory, motor, visual, perceptual, cognitive, physical, physiological and psychosocial skills. Principles of health promotion and disability prevention and the influences of culture and diversity are examined as they interface with the age-related needs and risks of this cohort. Students will examine the influence age-related life stages and development on occupations within the framework of performance skills and patterns and contexts. Students will be exposed to current research protocols and findings related to adolescents/adults development and their relationship to occupations and healthy lifestyle. This course is coupled with a community service learning experience in which students have the opportunity to integrate course content through lectures, seminar discussions, and community service experiences. Students also examine designated cultures and health related issues in depth using a problem based learning (PBL) approach.

The pre-requisite of OT 110 is required.

Credits: 2

Every Spring

OT 112 Human Development and Occupation 3: Geriatrics

Human development and occupation for elders is the core interest of this course. Development in the areas of sensory, motor, perceptual, physical, cognitive, physiological and psychosocial skills is examined. Principles of health promotion, disease prevention and the influences of culture and diversity are examined in depth. Assignments and community service experiences integrated in this course examine the role of age-related occupations on maturity, aging, death and dying, quality of life, and well-being. The course integrates performance skills, patterns and contexts as key factors in understanding changing occupational roles and the

process of adaptation in elders.

The pre-requisite of OT 111 is required.

Credits: 2

Every Summer

OT 119 Anatomy - Kinesiology

This course is an in depth study of the human body structure, functions and abnormal motion, with emphasis on the neuro-musculoskeletal systems. Structural interrelationships shall be examined as the basis for normal functions and as a means to understand structural and functional dysfunctions of body structures that affect body functions and occupational performance. The course facilitates students' understanding of neuro-motor substrates of human performance skills required to participate in meaningful occupations. Directed laboratory experiences are comprised of cadaver dissection, study of skeletal materials and anatomical models, surface anatomy, palpation, joint, and muscle function as well computer-assisted learning and video-tape presentation. Students obtain the background knowledge that assists them to understand, analyze and interpret neuro-motor body structures and functions that hinder occupational performance. All students must participate in cadaver dissection lab.

Pre-requisite of OT 140 is required.

Credits: 5

Every Spring

OT 120 Theory 1: Introduction

This course will provide the opportunity for students to learn about the theoretical foundations of the profession. Students will examine how theoretical information largely developed by the disciplines is used to support the development of (a) sets of guidelines for occupational therapy practice and (b) screening and assessment tools. Both non-occupational therapy theories and occupational therapy theories will be explored. Students will also learn how to read, critique, interpret and summarize research (basic and applied) regarding the reliability and validity of theories, and the effectiveness of guidelines for occupational therapy practice and screening assessment tools. The course has a writing intensive component in which students develop professional writing skills related to documenting evidence for practice. Language structure, format and argument development are emphasized. Students complete progressive assignments that are gradually revised using the professor's feedback, the assistance of writing tutors, and the use of googledocs. Finally students are introduced to clinical reasoning and decision making skills by assessing a client's occupational role dysfunction identify the impact of cultural, socioeconomic and political factors on their disability and determine an appropriate theoretically based OT intervention. Opportunities to practice clinical reasoning, professional writing and decision making skills are provided through case studies, media (e.g., books, film, and video) and scientific literature.

The pre-requisite of OT 100 and 201 are required. Student must be admitted into the Occupational Therapy Program

Credits: 2

Every Spring

OT 121 Medical Conditions 1: Physical Disabilities in Adolescents, Adults and Geriatrics

This course is a study of the medical, neurological, and orthopedic conditions that commonly occur during the life span of adolescents, adults, and the elderly. An understanding of the etiology, pathology, signs and symptoms, treatment, psychosocial issues, and prognosis of common conditions and diseases are promoted. The influence of culture, diversity, environmental context, and the impact of occupation and health promotion are considered.

The co-requisites of OT 129 and 112 are required.

The pre-requisite of OT 119 is required.

Credits: 3

Every Summer

OT 122 Medical Conditions 2: Mental Health in Adolescents, Adults and Geriatrics

This course presents an overview of the medical, neurological and psychiatric conditions which commonly occur during the life span of adolescents, adults and the elderly, building upon prior course work in the basic science curriculum and growth and development. Students develop an understanding of medical and psychiatric conditions, the etiology, signs, symptoms and prognosis. Implication for the person's occupational roles and performance are examined. Occupational therapy practice is discussed with focus on the process of screening, assessment, treatment and reassessment. In addition, the influence of culture, ethnicity, health care policies and gender and its impact on occupation and health promotion are examined across the life span.

The pre-requisite of OT 112 is required. The co-requisite of OT 320 is required.

Credits: 3

Every Fall

OT 129 Kinesiology 2

This lecture/lab course provides an introduction to the analysis of the human motion. It includes the study of muscle function and biomechanics of the human body. The course content integrates principles of kinesiology with muscle testing and goniometry. Changes in movement patterns across the life span are included. It provides didactic and practical experience with examination of movement principles. The impact of biomechanics on functional performance is also discussed. Students learn to apply principles of kinesiology, muscle testing and goniometry in clinical cases.

The pre-requisite of OT 119 is required.

Credits: 4

Every Summer

OT 140 Neuroscience

This course provides students with an

understanding of the neuroanatomical and neurophysiologic substrates of normal and abnormal human behavior. The study of cortical and subcortical anatomy and physiology includes: cranial and peripheral nerves; the ventricular system; vascular brain anatomy; the neuron and neural activity; neurotransmitters, enzymes, and other neurochemicals; the autonomic nervous system; spinal cord tracts; and proprioceptors (muscle spindles and golgi tendon organs). The neuroanatomical and physiologic functions of special senses include: the vestibular system, vision, audition, olfaction, gustation, and proprioception. The neurologic substrates of motor control, stress/emotions/motivation, learning and memory, the aging of the brain, and neuroplasticity is also reviewed. Students will learn to use their knowledge of neuroanatomical and physiologic functions of the central nervous system (CNS) to understand CNS disease, dysfunction, and injury (e.g., spinal cord injury, traumatic brain injury, schizophrenia, coma, Parkinson's, sensory integrative disorders). Students will also use their knowledge of neuroanatomy and physiology to begin to understand the neurologic theories underlying specific occupational therapy practices (e.g., NDT - Neurodevelopmental Treatment, PNF - Proprioceptive Neuromuscular Facilitation, SI - Sensory Integration, and splinting and casting). Lab will provide the opportunities for students to directly examine human brain specimens, practice clinical neurologic exams, and develop clinical problem identification skills through case studies. During lab sessions students are also exposed to real life clients with neurological damages and learn the functional impact of the neurological problems (using the "clinic in the classroom" approach).

The pre-requisites of BIO 3, 4, 131 and 132 are required and the student must be in the Occupational Therapy major in order to register for this course,

Credits: 5

Every Fall

OT 200 Fieldwork Level I: Geriatric Practice

This course provides the opportunity for students to directly experience occupational therapy practice with a geriatric population in a clinical or community setting. Through fieldwork experience, students will begin to integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. An integrative clinical reasoning fieldwork seminar both in person and on-line accompanies the fieldwork experience to provide students with an opportunity to analyze the professional and clinical practices observed in the clinic/ community setting, and integrates this with the clients' cultural background, health status, and valued occupations. Students will complete intensive documentation assignments that will help facilitate their understanding and ability to analyze and synthesize a client's information in an

occupational profile/evaluation in order to create long /short-term goals, formulate an evidence based treatment plan, progress note and discharge note.

The pre-requisites of OT 112, 121 and 129 are required.

The co-requisites of OT 303 and 420 are required.

Credits: 1

Every Fall

OT 201 Professional Development 1: Occupational Therapy Student Academic Experience

This course focuses on foundation skills to support professional education and personal development as an occupational therapy student. Course content will include student work with self-management and health promotion, learning styles and learning skills, learning contracts, study skills, test-taking skills, use of support groups and refinement of active listening, and goal setting. Students develop e-portfolios and begin to recognize themselves in their new professional roles. Students develop and expand skills in computer literacy, improve utilization of library and data bases for review of professional literature, and start to develop experience with scientific and professional writing and speaking. Students will participate in writing groups with tutors from the Writing Center to identify areas for skill development in writing and refine written communication skills, critical thinking and problem solving. This course is part of our enrichment program.

The pre-requisites of COS 50, ENG 16, SOC 3;

Two from ENG 61, 62, 63 and or 64; and the student must be in the Occupation Therapy major are required in order to register for this course.

Credits: 2

Every Fall

OT 202 Professional Development 2: Communication Skills

Students will continue to refine professional communication skills in the areas of written, graphic, and oral presentation. Students will identify areas for refining professional behavior, ongoing professional development, and continuing competency in academic and community contexts. Students continue to assemble an ePortfolio reflective of their ongoing professional development. They will formulate a professional development goal and continue to identify their focus for personal wellness, study skills and stress management. Students will also review how to present themselves in professional interviews for employment, scholarship applications, fieldwork experiences and to promote the profession through community and legislative advocacy. Students will expand knowledge of resources to research professional and current literature content, broaden understanding of evidence-based practice and literature reviews, further develop skills in using media, and creative arts for professional, patient, consumer, client and community education,

practice and advocacy.

The pre-requisite of OT 201 is required and the student must be in the Occupational Therapy major in order to register for this course.

Credits: 1

Every Spring

OT 203 Professional Development 3: Advocacy and Disability Perspectives

The course provides principles of advocacy for Occupational Therapy and Advocacy for our clients. Professional issues related to State and National Advocacy groups for OT as well as, current professional topics for advocacy are discussed. Students learn the importance and the nature of participation in professional advocacy. In this course students also examine psychosocial factors, stereotypes, and negative attitudes affecting people with disabilities, their families and caregivers. Methods of instruction include literature review, media resources, narratives, and in-class interviews with people with a range of stigmatizing conditions. Major civil rights legislation and the disability rights movement will be explored and different models of viewing disability will be reviewed. Students will enhance their understanding of the importance of practitioner, consumer and patient advocacy to promote empathy and skills in client-centered practice. Students will increase sensitivity and skills required in the implementation of client-centered practice with people with a wide range of physical, psychological, and socially stigmatizing conditions.

The pre-requisites of OT 100 and 201 are required.

Credits: 1

Every Spring

OT 204 Professional Development 4: Independent Study (Elective)

An in-depth exploration of a topic of study through review of literature, field visits or community service learning under the guidance of a faculty mentor. Professional writing development is emphasized. Students, with the instructor, define the scope of the study, methods, and outcomes. Professional development will be fostered through the identification of learning objectives for the experience that will be assessed/monitored during the course of the independent study process.

The pre-requisite or co-requisite of OT 100 is required.

Credits: 1

On Demand

OT 205 Professional Development 5: Health Promotion

Consideration of current public health initiatives designed to improve the quality of health, eliminate disparities, and explore occupation-based interventions to address major indicators of poor health, to prevent disorders and to maintain wellness. The course will examine evidence-based practice, intervention programs, evaluation and outcome assessments for wellness, health

promotion and quality of life. A range of approaches supporting health promotion and disease prevention in various populations, in institutional, community and home settings will be examined. Students will begin to develop skills in using occupational therapy interventions to enhance the quality of life and well-being. A variety of health-related occupations using traditional, alternative and complementary activities will be demonstrated and practiced. Areas of focus include enhancing coping and adaptation with stress management, time management, pain management, smoking cessation, and withdrawal from substances. Patterns of diet, physical activity, psychological states and attitude, social activities, and the role of spirituality in practice reflecting sociocultural/economic, diversity, cultural and life span factors are examined.

The pre-requisites of PSY 107, 100 and COS 50 are required. The student must be admitted into the Occupational Therapy Program.

Credits: 1

Every Spring

OT 206 Therapeutic Skills 2: Group Process

A group process course for treatment, teamwork, and community interventions. Introduction and application of theories of group dynamics, task, and activity groups, including evaluation of interpersonal style and group roles, therapeutic interaction and leadership skills, collaborative and professional communication skills. Students learn to carry out groups, reflect on their experiences and provide feedback to each other on the group process.

The pre-requisites of OT 100, 106 and 201 are required and the student must be admitted into the Occupational Therapy Program.

Credits: 3

Every Spring

OT 210 Fieldwork Level I: Mental Health

Practice: Adolescents and Adults

This course provides the opportunity for students to directly experience occupational therapy practice in mental health with adolescent/adult populations in a clinical or community setting. Through fieldwork experience, students will begin to integrate and apply the theoretical knowledge, professional behaviors/attitudes and clinical skills learned in the classroom. An integrative clinical reasoning fieldwork seminar accompanies the fieldwork experience to provide students with an opportunity to analyze the professional and clinical practices observed in the clinic/community setting, and integrates this with the clients' cultural background, health status, and valued occupations. Students will complete intensive documentation assignments that will help facilitate their understanding and ability to analyze and synthesize a client's information in an occupational profile/evaluation in order to create long/short-term goals, formulate an evidence based treatment plan, progress note and discharge note.

The pre-requisites of OT 320 and 122 are required. The co-requisite of OT 330 is required.

Credits: 1

Every Spring

OT 215 Fieldwork Level I: Physical Disability Practice: Adolescents and Adults

This course provides the opportunity for students to directly experience occupational therapy practice in adolescents/adults with physical disability in a clinical or community setting. Through fieldwork experience, students will begin to integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. An integrative clinical reasoning fieldwork seminar accompanies the fieldwork experience to provide students with an opportunity to analyze the professional and clinical practices observed in the clinic/community setting, and integrates this with the clients' cultural background, health status, and valued occupations. Students will complete intensive documentation assignments that will help facilitate their understanding and ability to analyze and synthesize a client's information in an occupational profile/evaluation in order to create long /short-term goals, formulate an evidence based treatment plan, progress note and discharge note.

The co-requisite of OT 430 is required. The pre-requisites of OT 121, 129, 303 and 420 are required.

Credits: 1

Every Spring

OT 220 Theory 2: Learning Theories Applied to Practice

This course provides students with an understanding of teaching and learning processes. Students are prompted through class activities and the discussion of theories of learning (such as Bloom's) to reflect on their own learning process as they pursue the OT degree. In addition students are introduced in how learning theories are used to support the development of occupational therapy interventions that are designed to facilitate personal change. Learning theories that are studied include Social Learning Theory (Bandura), The Health Belief Model (Becker), PRECEDE-PROCEED Model, Theory of Reasoned Action (Fishbein & Ajzen), Stages of Change Theory-Trans theoretical Model (Prochaska & DiClemente), Theory of Multiple Intelligences (Gardner), Learning Styles Model (Dunn & Dunn), Motor Learning, Behaviorism and Model of Human Occupation (MOHO). Characteristics of therapists and environments that facilitate positive change are examined. Learning styles and learning contracts that are sensitive to multicultural concerns and literacy levels of patients, clients, and caregivers are explored. The course is also focused on professional writing and the ability of the students to review literature and summarize it in a logical and comprehensive manner.

The pre-requisite of OT 120 is required.

Credits: 2

Every Summer

OT 301 Skills for Living 1: Play and Leisure

This course has a dual focus: play and leisure across the life span and activity analysis and synthesis.

Meaningful occupation, with a specific focus on play and leisure will be examined in a social and cultural contexts and temporal contexts of age, developmental and life cycle stages, and disability status. Content includes the role of play and leisure in health promotion and disability prevention, and the screening and assessment of play and leisure. Students develop skills in task and activity analysis, activity modification and adaptation based on an occupational performance model.

The pre-requisites of COS 50; PSY 107 and 110; and SOC 3 are required in order to register for this course.

Credits: 3

Every Fall

OT 302 Skills for Living 2: Work

This course focuses on the role of work/productive activities across the life span and in occupational therapy. Content includes vocational and functional capacity evaluation, work related assessment tools, work programs for clients with injury, developmental disabilities, cognitive deficits and mental health concerns. The influence of unique client characteristics, the environment, culture, social, economic and political factors impacting work and work programs will be considered throughout the semester. Students will be introduced to ergonomics, cumulative work injury and work hardening. Skill in activity analysis will be expanded through a job analysis, analysis of work related behaviors and skills, tool analysis, and an ergonomic seating evaluation. Lab activities link theory to clinical application.

The pre-requisite of OT 119 is required. The co-requisites of OT 129 and 121 are required.

Credits: 3

Every Summer

OT 303 Skills for Living 3: Self Care

This course provides students with the opportunity to examine the meaning of self-care activities throughout the life span and across various cultures. The course content emphasizes clinical reasoning/evidence-based practice research as it relates to the engagement in self-care skills as part of meaningful occupation, health promotion, prevention and wellness. The specific performance components of self-care activities (i.e., sensorimotor, cognitive and psychosocial components) will be analyze. The way in which various performance contexts (i.e., age group, developmental stage, disability status, environmental conditions, and socio-cultural factors) influence self-care activities will be explore. Students will have the opportunity to practice activity analyses of self-care tasks (for specific populations, age groups, socio-cultural environments, etc.). Students will also practice the

clinical techniques of grading and adaptation of self-care activities in accordance with an individual's disability status. There will be opportunity to practice grading and adaptation self-care skills, through case studies and problem-based learning activities. Students will have the opportunity to identify a variety of screenings, assessments, and intervention methods for clients who have disabilities, which interferes with self-care activities. The students will have the opportunity to practice documentation skills (goal and note writing) through case studies and problem-based learning.

The pre-requisites of OT 121 and 129 are required.

The co-requisite of OT 420 is required.

The student must be in the Occupational Therapy major in order to register for this course.

Credits: 3

Every Fall

OT 306 Therapeutic Skills 3: Teamwork and Leadership

This course will introduce students to the conceptual, interpersonal and self-knowledge components of teamwork and leadership. Practice in applying theory and skills to teamwork will prepare students for developing competence in interdisciplinary collaboration, client and family centered intervention and health promotion. Roles and contribution of the full range of participants from various practice domains in institutional, professional and community settings will be explored. Students will examine approaches to problem solving, ethical challenges and conflict-handling styles in leadership. Students will be introduced to mentorship models and strategies that support effective supervision. Students will design and implement wellness/health promotion groups for a variety of populations in the community (non-traditional settings). Students will play an active role in developing educational presentations using technology for educational presentations on the reading material pertaining to teamwork and leadership. Work from this course will be used to enrich students' e-portfolios reflecting their continues professional development.

The pre-requisites of OT 106 and 206 are required and the student must be in the Occupational Therapy major in order to register for this course.

Credits: 2

Every Fall

OT 320 Theory 3: Comprehensive Models and Mental Health Sets of Guidelines for Practice

This course provides students with the opportunity to study the underlying theories of occupational therapy comprehensive models with an emphasis on adaptation and the environment. The structure and content of theories, models, and frames of reference/sets of guidelines for practice in mental health will be described. The delineation between basic and applied scientific inquiry will also be presented. The role of occupation as described by occupational science, occupational adaptation, the Model of Human Occupation, and client-centered

practice is also presented. Each comprehensive model will be examined with respect to its (a) author/source, (b) origin, (c) populations addressed, (d) theoretical foundations, (e) concepts and assumptions, (f) sensitivity to multicultural concerns of patients/clients, (g) principles of assessment, (h) client-therapist relationship, and (i) principles of intervention. These comprehensive models will be explored, analyzed and critiqued for the purpose of determining their adequacy as a basis for practice. Health promotion and wellness models are also presented and analyzed. Current practice issues such as reimbursement for services, the professions domain of concern, and research priorities will be discussed relative to contrasting assumptions about the way in which comprehensive models should be used to guide occupational therapy practice

The co-requisites of OT 122 is required. The pre-requisites of OT 111 and 112 are required. The student must be in the Occupational Therapy major in order to register for this course.

Credits: 4

Every Fall

OT 330 Practice 1: Mental Health - Adolescents, Adults and Geriatrics

This course addresses the sequence of practice in occupational therapy: screening, evaluation, reevaluation, formulation and implementation of intervention and discharge planning in mental health practice with adolescents, adults and geriatrics in traditional and non-traditional settings. The influence of culture and diversity, environment context and psychological issues, as well as the impact of occupation and health promotion in practice are examined. Reflections on clinical reasoning are applied to practice via clinical fieldwork and field visits. Students are exposed to health promotion, wellness and quality of life principles and practices.

The co-requisites of OT 210 is required. The pre-requisites of OT 122 and OT 320 are required.

The student must be in the Occupational Therapy major in order to register for this course.

Credits: 5

Every Fall

OT 420 Theory 4: Physical Disabilities Sets of Guidelines for Practice

This course provides the opportunity for students to examine the primary theoretical information underlying occupational therapy practice in physical disabilities (i.e., biomechanical, sensory processing, neurodevelopmental, neurobehavioral, and cognitive-perceptual). Each set of guidelines (or frame of reference) is studied with regard to (a) its theoretical base, (b) the predominant screening and evaluation assessments used by therapists, (c) principles of intervention, (d) reassessment and revision of treatment plans, (e) applicability to specific client populations, and (f) studies reporting the degree of efficacy of the practice approach. Students are exposed to the theoretical

underpinnings of occupational performance and in health promotion and wellness strategies that promote engagement in meaningful occupation.

The co-requisite of OT 303 is required. The pre-requisites of OT 129 and 121 are required.

Credits: 5

Every Fall

OT 430 Practice 2: Neurorehabilitation Adolescents, Adults and Geriatrics

This course addresses neurorehabilitation practice with adolescents, adults, and geriatrics within a variety of healthcare and community related settings. Students will learn about the sequence of rehabilitative practice in occupational therapy specific to addressing the needs of clients with neurological impairment, including: screening and evaluation, reevaluation, intervention planning and implementation, and discharge planning. The course also acknowledges the influence of culture, diversity, environmental context, and their impact on occupation and health promotion in clients with neurological damages. Students will be expected to reflect on the clinical reasoning processes required to provide competent and evidence based practice to this client population via class discussions, case based assignments, and clinical fieldwork experiences.

The co-requisites of OT 215 and 431 are required.

The pre-requisites of OT 121, 303 and 420 are required.

Credits: 5

Every Spring

OT 431 Practice 3: Orthopedic Rehabilitation and Orthotics: Adolescents Adults and Geriatrics

This course is designed to provide students with the background and experience in splint fabrication and orthotic management for orthopedic conditions. Furthermore, students will learn evaluation and intervention principles with adolescents, adults, and geriatrics. The lecture component will incorporate biological principles, anatomical, kinesiological concepts, and bio-mechanics relating to orthopedics and splinting. The class will be divided into two sections; a two-hour lecture followed by a four-hour lab. The lecture component will incorporate biological principles, anatomical, kinesiological concepts, and bio-mechanics relating to orthopedics and splinting. Common diagnoses and indications for selected splints will be reviewed as well as common protocols. In addition, students will be learning about the sequence of practice in occupational: screening and evaluation, reevaluation, formulation of intervention plans and implementation, and discharge planning. The lab portion will focus on splint design and fabrication as well as modality application. Students will be exposed to a variety of splinting equipment, tools, supplies, and low temperature thermoplastics used in clinical settings, and develop basic splinting skills. Furthermore, students will understand and demonstrate electrical safety standards. In addition, students will have the

opportunity to apply modalities, such as, thermal, ultrasound, TENS, NMES, light and laser therapy.

Finally, students will focus on hand on evaluation and treatment skills for common hand problems.

The co-requisites of OT 215 and 430 are required.

The pre-requisites of OT 121, 303 and 420 are required.

Credits: 4

Every Spring

OT 432 Practice 4: Medical and Surgical Rehabilitation: Adolescents Adult and Geriatrics

This course addresses current occupational therapy practice methods for clients having general medical and/or surgical diagnoses- in adolescent, adult, and geriatric populations. Students will learn about the most commonly seen medical/surgical diagnoses treated by occupational therapists, as well as some specialty diagnoses. The sequence of practice for this diagnostic population will be covered-including screening and evaluation, observation of contraindications and safety protocol, formulation of treatment plans, implementation of treatment, family/caregiver education, re-evaluation, and discharge planning. The impact of multicultural sensitivity, cultural diversity, and environmental context as they affect treatment will be explored. Students will be expected to appropriately grade and analyze activities in the process of developing treatment plans for patients having general medical/surgical rehabilitation needs as well as some complex and less common diagnoses. Students will also enhance their clinical reasoning and decision-making skills as they apply treatment methods via review of fieldwork experiences and case studies. Students are asked to integrate the client's health status, occupational performance and develop treatment plans that take under consideration the client's values & routines and the context of care.

The pre-requisites of OT 430 and 431 are required.

Credits: 2

Every Summer

OT 506 Therapeutic Skills 5: Technology and Assistive Devices

The course provides a close look (hands on experiences, clinical visits, in-class equipment presentations) at assistive devices, assistive technology, compensatory strategies and environmental adaptations used in the treatment of children, adolescents, adults and elders with a wide range of disabilities to promote functional adaptation and accessibility in the client's environment. Students explore the use of adaptive equipment and the processes of assessment and intervention using adaptive equipment for clients with a variety of disabilities. The role of adaptive equipment in promoting occupational performance and participation is integral to the course.

The pre-requisites of OT 430 and 431 are required.

The co-requisites of OT 432 and 533 are required.

Credits: 2

Every Summer

OT 507 Therapeutic Skills 6: Organization and Administration

Application of the principles of management in the provision of occupational therapy services to individuals and organizations including: planning, marketing, organizing, fiscal management, maintaining staffing, coordination, directing, controlling, and evaluating programs. Students will develop an understanding of a variety of service delivery models and knowledge of the broad spectrum of influences that impact on health care delivery and ethical practice. Completion of a grant application or business plan complete with a literature review that includes evidence-based and best practice, background/need, mission statement, project description/implementation/evaluation, budget, sources of income, foundation support, staffing and job descriptions.

The pre-requisites of OT 430, 432, 432, 330 and 533 are required. The co-requisites of OT 530 and 535 are required.

Credits: 3

Every Fall

OT 510 Level II: Fieldwork I

This course provides 10 to 12 weeks of full-time supervised fieldwork. It provides in-depth initial experience in delivering occupational therapy services to various groups of clients across the life span, persons with a variety of psychosocial and physical performance deficits, in various service delivery models reflective of current and emerging practice and trends in the profession. Through this fieldwork experience, students will integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. A peer supervision process via Blackboard discussions will be incorporated for additional supervision amongst students and from the faculty.

The pre-requisites of OT 205, 430, 431, 432 and 330 are required. The co-requisites of OT 533, 530, 507 and 716 are required.

Credits: 5

Every Fall

OT 511 Level II: Fieldwork II

This course provides 10 to 12 weeks of full-time supervised fieldwork. It provides in-depth initial experience in delivering occupational therapy services to various groups of clients across the life span, persons with a variety of psychosocial and physical performance deficits, in various service delivery models reflective of current and emerging practice and trends in the profession. Through this fieldwork experience, students will integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. A peer supervision process via Blackboard discussions will be incorporated for additional supervision amongst students and from the faculty.

The pre-requisite of OT 510 is required.

Credits: 5

Every Spring

OT 512 Level II: Fieldwork III

This course provides 8 to 12 weeks of full-time supervised fieldwork. It provides in-depth initial experience in delivering occupational therapy services to various groups of clients across the life span, persons with a variety of psychosocial and physical performance deficits, in various service delivery models reflective of current and emerging practice and trends in the profession. Through this fieldwork experience, students will integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. A peer supervision process via Blackboard discussions will be incorporated for additional supervision amongst students and from the faculty.

The pre-requisite of OT 511 is required.

Credits: 4

Every Spring

OT 513 Level II: Fieldwork IV (Elective)

This elective course provides 6 to 12 weeks of full-time supervised fieldwork. The number of credits awarded is prorated on the length of the fieldwork experience. It provides in-depth fourth experience in delivering occupational therapy services to various groups of clients across the life span, persons with a variety of psychosocial and physical performance deficits. It is taken place in various service delivery models reflective of current and emerging practice and trends in the profession with a concentration in practice focus substantially different than the setting and population in OT 510, OT 511 & OT 512. Through this fieldwork experience, students will integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. A peer supervision process via Blackboard discussions will be incorporated for additional supervision amongst students and from the faculty.

The pre-requisite of OT 512 is required.

Credits: 2

Every Spring

OT 520 Theory 5: Research

This course provides the opportunity for students to learn the primary approaches of research design, methods, data collection, and analysis. Students will study (a) quantitative research designs (experimental, quasi-experimental, and non-experimental); (b) qualitative designs (ethnography, phenomenology, grounded theory, etc.); and (c) quantitative and qualitative data collection and analysis methods. Students will develop an applied research question based on the health promotion needs of individuals within a community service setting, and will begin the process of writing a research/grant proposal that will be refined throughout the remainder of the curriculum (in OT 620, 720, and 820). Students may also have the

opportunity to implement and evaluate a research project.

The pre-requisite of OT 205, 430, 431 and 330 are required. The co-requisites of OT 533, 520 and 620 are required.

Credits: 3

Every Summer

OT 530 Practice 3: Pediatrics

A comprehensive review of best practices related to clinical decision making, interdisciplinary collaboration, client-centered practice and supervision is discussed in this course. The focus is primarily in pediatric practice. The role of legislation, policy, and reimbursement are extensively discussed. The students are exposed to pediatric clinical cases from a variety of practice settings. The occupational therapy process of screening, assessment, reassessment, formulation of intervention plans, implementation and discharge is carried out, while addressing the influence of culture, diversity, and environment on occupation and health promotion. Hands-on experiences provide students with challenges in observation, clinical reasoning skills, communication skills, professional writing and documentation skills. Students bring in examples from their clinical experiences with children and their families. Evidence based practices are reinforced through assignments and class activities, to support clinical decision making and advocacy needs of clients (pediatrics).

The co-requisites of OT 535 and 507 are required.

The pre-requisite of OT 533 is required.

Credits: 5

Every Fall

OT 533 Medical Sciences 3: Clinical Conditions in Pediatrics

This course presents a study of the medical, neurological, psychiatric, orthopedic and developmental conditions that occur in childhood and adolescence. Students develop an understanding of the etiology, pathology, signs and symptoms, medical treatment, prognosis of common conditions and the influence of the clinical conditions on development, occupational performance and adaptation of the child, and the client's family. The role of the occupational therapist and the occupational therapy assistant in assessment, intervention and ongoing management, health promotion, and prevention relative to the conditions covered in the course, extensively discussed. Students practice through clinical videos their clinical observation and clinical reasoning skills.

The pre-requisites of OT 110, 111, 430, 431 and 330 are required. The co-requisites of OT 506, 520, 620 and 720 are required.

Credits: 3

Every Summer

OT 535 Fieldwork Level I: Practice 3: Pediatrics

This course provides the opportunity for students to directly experience occupational therapy practice in children/adolescents with a variety of disabilities a clinical or community setting. Through fieldwork experience, students will begin to integrate and apply the theoretical knowledge, and professional behaviors/attitudes and clinical skills learned in the classroom. An integrative clinical reasoning fieldwork seminar accompanies the fieldwork experience to provide students with an opportunity to analyze the professional and clinical practices observed in the clinic/community setting, and integrates this with the clients' cultural background, health status, and valued occupations. Students will complete intensive documentation assignments that will help facilitate their understanding and ability to analyze and synthesize a client's information in an occupational profile/evaluation in order to create long /short-term goals, formulate an evidence based treatment plan, progress note and discharge note.

The co-requisites of OT 530, 507 and 716 are required. The pre-requisite of OT 533 is required.

Credits: 1

Every Fall

OT 620 Theory 6: Research Proposal Development

The course exposes the students to the process of research proposal development. Students engage in mentored research projects with their faculty advisors. They are asked to development research questions and/or hypotheses pertaining to the research problem of interest. They explore plausible theoretical frameworks that provide the conceptual context of their research project. They complete a research proposal that includes methods of assessment, relevant literature and theoretical base, program implementation and evaluation. The course has writing intensive component and requires advance library skills.

The pre-requisites of OT 205, 430, 431 and 330 are required. The co-requisites of OT 533 and 520 are required.

Credits: 2

Every Summer

OT 716 Professional Development 6: Student Clinical Experience

This course prepares for the transition from academic to clinical student roles and from student to practitioner. Ethics, supervision, conflict resolution, documentation, evolution of clinical reasoning skills, scientific inquiry, teamwork, and collaboration with certified occupational therapy assistants will be covered. Students will have a better understanding of national and state regulatory bodies and their effects on practice. The course gives students knowledge related to national and state requirements for credentialing and licensing. Tools and information are also given to the students to prepare them for becoming fieldwork educators.

The pre-requisites of OT 205, 430, 431, 330 and

533 are required. The co-requisites of OT 530, 507 and 535 are required.

Credits: 1

Every Fall

OT 720 Theory 7: Community Practice Education and Health Promotion

This course presents the theory and practice of community-based practice, education, health promotion and prevention services for the well population and populations at risk for specific physical, mental, social, or environmental problems. Foundation material includes community context, multicultural competence, and principles of prevention, use of evidence to plan and evaluate services, and consultation and collaboration. Utilizing a life-span developmental perspective, information is presented on the needs of each target group, settings to access the population, and empirical evidence supporting prevention services. The program development process is described in depth, with special emphasis on needs assessment and outcome evaluation. Students will participate in the process of identifying potential grant funding sources and understanding the requirements for grant submission. Occupational therapists and other professionals will present their experience with consultation, marketing, grant writing, implementation and evaluation.

The co-requisites of OT 533, 520 and 620 are required. The pre-requisite of OT 205, 430, 431 and 330 required.

Credits: 2

Every Summer

OT 820 Theory 8: Community Practice Research Project

This course provides students with the opportunity to refine their research proposals (from OT 620) and carry out their project under the supervision of their research mentor. Students will continue to refine skills in professional and scientific writing through the production of successive drafts leading to the final manuscript. Students will expand knowledge of resources to research professional and current literature resources, expand understanding of evidence based practice and literature review, further develop skills in applying principles of theory and practice to formulating and implementing a viable capstone research project. Students will be guided in data coding, analysis, results and interpretation of findings as well as development of discussion that describes the scientific and clinical contributions of their projects. Students are asked to produce a manuscript and present their project in a poster format during OT research day.

The pre-requisites of OT 520, 620 and 720 are required.

Credits: 4

Every Spring

DEPARTMENT OF PHYSICAL THERAPY

The Division of Physical Therapy offers a Doctor of Physical Therapy degree at the graduate level. Please refer to the LIU Brooklyn Graduate Bulletin for full details about the program.

DIVISION OF PHYSICIAN ASSISTANT STUDIES

The Division of Physician Assistant Studies offers a 28-month, professional-phase curriculum leading to the M.S. in Physician Assistant Studies. Please refer to the LIU Brooklyn Graduate Bulletin for full details about the program.

DEPARTMENT OF PUBLIC HEALTH

Chairperson and Associate Professor: Karen Denard Goldman, M.P.H., Ph.D.
 Visiting Associate Professor (Acting Chair): Bojana Beric, MD, Ph.D., NCHC
 Assistant Professor: Brian Gilchrist, Ph.D.
 Undergraduate Practicum Coordinator: Scott Westervelt, M.S.
 Director of Practicum: Joyce Hall, M.P.H.
 Adjunct Faculty: 5

Note that a separate admission into the MPH portion of this program is required. Please refer to the LIU Brooklyn Graduate Bulletin for Admission Requirements.

B.S. in Health Science / M.P.H. in Public Health

B.S., Health Science / M.P.H., Public Health

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar	3 credits
Humanities	
English Composition	3 credits
English Literature	6 credits
Philosophy	6 credits
Foreign Language	Not Required

Social Sciences

History	6 credits
Social Sciences (ANT 5 and PSY3)	6 credits

Science and Mathematics

Mathematics	3-4 credits
Biology	8 credits
Chemistry	8 credits

Communication, Visual & Performing Arts

Speech	3 credits
Visual & Performing Arts (ART, DNC, MUS, THE)	Not Required

Ancillary Course Requirements:

Must complete all the following Biology courses.

BIO 101	Microbiology	3.00
BIO 131	Human Anatomy	4.00
BIO 132	Human Physiology	3.00

Choose one of the following Mathematics courses.

MTH 100	Introductory Statistics	3.00
PSY 150	Statistics in Psychology	3.00

Major Requirements

Must Complete All Undergraduate Courses Below.

HS 300	Introduction to Health Professions	3.00
HS 325	Current Issues in Urban Health	3.00
HS 340	Wellness and Nutrition	3.00
HS 355	Diversity and Health Disparities	3.00
HS 410	Healthcare Organizations and Delivery	3.00
HS 430	Introduction to Research in the Health Professions	3.00
HS 460	Ethical and Legal Aspects of Health care	3.00
HS 471	Health Program Planning	3.00
HS 490	Practicum	3.00

The following are the course requirements for the Public Health, Master of Public Health plan.

Must Complete All Graduate Courses Below:

MPH 600	Foundations of Public Health and Health Education	3.00
MPH 610	Principles of Epidemiology	3.00
MPH 615	Principles of Biostatistics	3.00
MPH 620	Social and Behavioral Sciences in Public Health	3.00
MPH 625	Environmental Health Issues in Public Health	3.00
MPH 735	Research Methods in Public Health and Health Education	3.00
MPH 740	Public Health Planning, Implementation and Evaluation	3.00
MPH 745	Principles and Methods of Health Education and Promotion	3.00
MPH 750	Public Health Policy, Advocacy and Leadership	3.00
MPH 755	Public Health Planning, Implementation and Evaluation	3.00
MPH 798	Public Health Capstone Seminar: Promoting Health Equity	3.00
MPH 799	Public Health Field Practicum	3.00

Of the following undergraduate elective courses only one is required:

A minimum of 42 credits are required for the Public Health, Master of Public Health plan.

Elective Graduate Courses in the Master of Public Health Plan

Of the following graduate elective courses only two are required:

MPH 500	Public Health Application of Informatics	3.00
MPH 510	Public Health Preparedness	3.00
MPH 515	Public Health Implications of HIV/AIDS	3.00
MPH 520	Public Health Nutrition	3.00
MPH 525	Social Marketing Strategies for Improving Public Health	3.00
MPH 530	Global Public Health Challenges	3.00
MPH 535	Infectious Diseases and Public Health Practice	3.00

See the LIU Brooklyn Graduate Bulletin for M.P.H. Course Descriptions.

Credit and G.P.A. Requirements

Minimum Total Credits: 138 credits
 Minimum Total Liberal Arts and Sciences Credits: 64 credits
 Minimum Total Major Credits Undergraduate: 27 credits
 Minimum Total Major Credits Graduate: 42 credits
 Ancillary Course Requirements: See Above
 Minimum Major G.P.A.: 2.0
 Minimum Cumulative G.P.A.: 2.0

See the LIU Brooklyn Graduate Bulletin for MPH course descriptions.

DIVISION OF RESPIRATORY CARE

Program Director: Thomas J. Johnson, M.S., R.R.T.

Director of Clinical Education: Cindy Bravo-Sanchez, M.P.A., R.R.T., NPS

Adjunct Faculty: 5

The four-year, 128-credit B.S. in Respiratory Care is designed to provide students with educational and clinical competence, emphasizing comprehension, versatility and advanced clinical knowledge. The two-year, pre-professional phase of the program consists of preparation in the basic sciences and in mathematics as well as in the humanities and social sciences, providing students with a broad-based liberal arts foundation.

During the professional phase of the program – usually years 3 and 4 – students are engaged in the theoretical, practical and clinical aspects of adult, pediatric and neonatal respiratory care. They gain an in-depth knowledge of clinical science and its application in health care. Through classroom, laboratory and diverse clinical practical education, students develop the necessary knowledge, bedside skills and problem-solving abilities to serve the health needs of patients from premature newborns through the elderly. Thus, students are prepared to address both acute and chronic diseases that affect the cardiopulmonary system as well as trauma, sub-acute disease and public health issues ranging from asthma and disaster management to tuberculosis and epidemic or pandemic diseases.

In addition, they learn about mechanical ventilatory support, the therapeutic use of medical gases and administration apparatus, environmental control systems, humidification, aerosols, medication, cardio-pulmonary rehabilitation, advanced cardiopulmonary resuscitation, airway management, pulmonary function testing and hemodynamic monitoring. They also become well-grounded in disaster management and public health education.

Those who successfully complete the program are eligible to take the national board examinations given by the National Board for Respiratory Care (NBRC). The B.S. in Respiratory Care is accredited by the Committee on Accreditation for Respiratory Care (CoARC). It is registered with the New York State Department of Education.

The field of respiratory care is an ideal choice for individuals interested in healthcare who enjoy working with people and who have an aptitude for working with technology. Our program will provide those individuals with the opportunity to develop long and highly satisfying careers. Respiratory care professionals treat patients who exhibit a range of diverse health issues including asthma, pneumonia, emphysema, cystic fibrosis, lung cancer, sleep disorders as well as those who are having respiratory problems related to trauma, strokes, heart attacks and premature birth.

Respiratory care professionals work in a broad

array of health care settings including hospitals, clinics, sub-acute care facilities, physician's offices, as well as in home care, research and educational facilities, and sleep labs. Work schedules are often flexible and starting salaries can range from \$45,000 - \$70,000 annually.

Respiratory therapists can specialize in a number of different areas after they graduate and can choose to advance along a variety of different career paths such as healthcare management, education and research.

According to the United States Department of Labor Bureau of Labor Statistics, the job outlook for respiratory therapists is excellent.

Admission Requirements

Both high school graduates and college transfer students may apply for admission to the Respiratory Care program. The following are required for consideration to become a degree candidate.

- High School students must have a G.P.A. of 3.0 (80%) or higher and over 800 combined on the SAT examinations.
- Transfer students must have a G.P.A. of 2.5 or higher and grades of C+ or higher in all math and science courses.
- Courses in math and science that were taken 9 or more years prior to admission are not acceptable and must be revisited.
- All applicants must pass (75% or higher) a medical terminology examination that is offered three times during the academic year and given by the program

Application

- High School and transfer students must begin the application process through the Office of Admissions.
- LIU students with G.P.A. and math/science grades meeting requirements only require a change of major at any time during their university career.
- Applications to the professional phase course work must be completed not later than June 1st of the year prior to the start of the professional courses.
- LIU students who require second summer session course(s) for Respiratory Care pre-requisite(s) will be placed on a waiting list until the grades are posted.
- Transfer students must have all pre-requisite courses completed by July 6th for admission into the professional Respiratory Care courses each Fall.

Behavioral and Social Attributes

A candidate for Respiratory Care must have sufficient emotional health to fully use his or her intellectual ability, to exercise good judgment, to complete all responsibilities, and to attend to the diagnosis and care of patients. A candidate must be able to develop mature, sensitive and effective relationships with patients and colleagues. A candidate must be able to tolerate physical and emotional stress and continue to function effectively. A candidate must possess qualities of

adaptability, flexibility and be able to function in the face of uncertainty. He/she must have a high level of compassion for others, motivation to serve, integrity and a consciousness of social values. A candidate must possess sufficient interpersonal skills to interact positively with people from all levels of society, all ethnic backgrounds and all belief systems.

Pre-requisite courses required for both LIU students and transfer students with either an associate's or bachelor's degree:

Course	LIU Nomenclature	Lab Required (Y/N)	Credits
Microbiology	BIO 101	Yes	4
Human Anatomy & Physiology I	BIO 131 (Human Anatomy)	Yes	4
Human Anatomy & Physiology II	BIO 132 (Human Physiology)	No (Note: transfer student may have a laboratory component)	3 (LIU)
Chemistry	CHE 3X	Yes	4
Physics	PHY 20 or 27	Yes	4
Algebra	MTH 15 or 16	N/A	3
Statistics	HTH 100 or PSY 150	N/A	3

Note: Transfer students must have a minimum total of 7 credits for Anatomy & Physiology I & II.

Advanced Standing

Advanced standing and/ or life experience credit may be offered to US or Canadian licensed respiratory therapists. Respiratory care professionals with an associate's degree in respiratory care seeking a baccalaureate degree will be afforded the opportunity to challenge courses. These candidates will be required to complete academic residency requirements of a minimum 32 credits at LIU Brooklyn and at least 15 credits in the Respiratory Care higher (200 or 300 level) courses.

Academic Standards

Grades below a C+ are not acceptable in prerequisite science (Anatomy & Physiology, Microbiology, Chemistry and Physics) and mathematics courses (College Algebra and Statistics); neither are such grades acceptable in professional phase courses. A grade-point average of 2.5 is required for acceptance into the

professional phase of the program. Once admitted to the professional phase, students must maintain at least a C+ in all courses and a grade point average of at least 2.75 each semester. Respiratory care courses must be taken in the required sequence.

Credentialing Examinations

All students who successfully complete all pre-professional and professional courses and have fulfilled all baccalaureate degree requirements are eligible for both the entry-level certification (Certified Respiratory Therapist) and the advanced registry credentialing examinations (Written Registry and Clinical Simulation examinations) as set forth by the National Board for Respiratory Care (NBRC). Qualified students will be permitted to take the Entry Level CRT Examination 30 days prior to graduation. The NBRC (CRT) entry-level examination is recognized by all states that require licensing of respiratory care professionals. Note that a state licensing board may deny a license to practice Respiratory Care based upon a criminal background check. (See Criminal Background Checks and Drug Testing section.)

B.S. in Respiratory Care

B.S., Respiratory Care

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language Not Required

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 8 credits

(BIO 3 and BIO 4)

(Grade C+ or greater required)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts Not Required

(ART, DNC, MUS, THE)

Ancillary Course Requirements:

Choose one of the following Chemistry sequences.

CHM 3X General Chemistry 4.00

CHM 4X Introduction to Organic and Biochemistry 4.00

or

CHM 3 Principles of Chemistry I 4.00

CHM 4 Principles of Chemistry II 4.00

Major Requirements

Respiratory Care Pre-Professional Science Requirements (6 courses):

Must Complete All Four (4) Courses Below.

BIO 101 Microbiology 3.00

BIO 131 Human Anatomy 4.00

BIO 132 Human Physiology 3.00

CHM 3X General Chemistry 4.00

Must Complete One (1) Physics Course Below.

PHY 20 The Physical Universe 4.00

PHY 27 Physics for Pharmacy 4.00

PHY 31 General Physics 4.00

Must Complete One (1) Course From Below.

MTH 100 Introductory Statistics 3.00

PSY 150 Statistics in Psychology 3.00

Respiratory Care Professional

Requirements

Respiratory Care Professional Phase Year 3

RC 101 Cardiopulmonary Physiology I 3.00

RC 103 Clinical Application of Acid-Base Balance 2.00

RC 107 Pulmonary Function 2.00

RC 109 Clinical Experience I 2.00

RC 112 Theory and Practice of Respiratory Care I 5.00

RC 200 Cardiopulmonary Pathology 3.00

RC 205 Cardiopulmonary Medical Science 3.00

RC 210 Clinical Experience II 3.00

RC 213 Theory and Practice of Respiratory Care II 5.00

RC 214 Cardiorespiratory Pharmacology 3.00

Respiratory Care Professional Phase Year 4

RC 206 Rehabilitation Techniques in Respiratory Care 3.00

RC 215 Selected Topics in Internal Medicine 3.00

RC 225 Neonatal and Pediatric Respiratory Care 3.00

RC 229 Clinical Experience III 8.00

RC 311 Respiratory Critical Care 3.00

RC 330 Clinical Experience IV 8.00

RC 331 Principles to Practice in Respiratory Care 4.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 69 credits

Minimum Credits Above 100 Level Courses: 48 credits

Minimum Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Respiratory Care Yrs 1-2

A Minimum of 48 Credits Above 100

(Advanced) is Required.

Respiratory Care Courses

RC 101 Cardiopulmonary Physiology I

A study of the anatomy and physiology of the cardiopulmonary system, specifically, the physiology of the lung, the function and innervation of cardiac muscle, cardiac circulation, cardiac pump, bio-mechanics of breathing, oxygen and carbon dioxide exchange and control of ventilation.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 103 Clinical Application of Acid-Base Balance

The arterial blood gas is the keystone in the diagnosis and management of the cardio-pulmonary patient. Students will be introduced to the clinical interaction of care with the acid-base status of the patient. The inter-relationships of pH, oxygen, carbon dioxide, glucose, lactate and electrolytes are examined. The effects of the cardiac, pulmonary and renal systems of human oxygenation and acid-base balance make arterial blood gas interpretation essential in the diagnosis and effective management of these patients. Blood-gas instrumentation operation, maintenance, quality control and quality assurance are discussed. Course fee.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 2

Every Fall

RC 107 Pulmonary Function

The interpretation of spirometry, diffusion studies and the measurement and interpretation of total lung volumes, using helium dilution, nitrogen washout and body plethysmography is essential in the diagnosis of the cardiopulmonary patient. Effective treatment and pharmacological intervention is monitored and its effectiveness evaluated by pulmonary function studies.

Cardiopulmonary exercise testing is introduced.

This course has an additional fee.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 2

Every Fall

RC 109 Clinical Experience I

This course focuses on infection control, HIPAA

and other health care regulations, basic patient assessment, patient interviewing and charting skills needed to prepare the student to enter the clinical setting. Students receive a supervised experience in a metropolitan respiratory care department, where they have the opportunity to apply their newly acquired skills in actual patient-care setting. Four lecture or laboratory hours and clinical experience as assigned.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 112 Theory and Practice of Respiratory Care I

This course is a study of the theory behind the clinical preparation, selection and application of respiratory care equipment and its assembly and use and a look at troubleshooting such equipment. Topics included are medical gases, medical gas therapy, aerosol and humidity therapy and non-invasive monitoring.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 5

Every Fall

RC 141 Evaluation and Management of Emergencies

A course designed for students of the health professions that will cover the evaluation and management of life threatening emergencies. Students also will develop a strong foundation in current medical terminology. Students perform basic life support and cardiopulmonary resuscitation (CPR) under the guidance and supervision of a certified instructor. Students may earn certification in AHA BCLS.

The pre-requisites of BIO 101, 131, 132; CHM 3 or CHM 3X or CHM 4 or CHM 4X; MTH 15 or 16 or 30 or 40; PHY 20 or PHY 27 or PHY 31; are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 2

On Occasion

RC 200 Cardiopulmonary Pathology

This is the study of pathophysiology as compared to the normal physiology of the cardiopulmonary system. Special emphasis is placed on respiratory function in obstructive airway diseases, Cancer, TB, interstitial lung diseases, and neuromuscular respiratory failure. Case studies, pulmonary function evaluation, radiologic evaluation and lung scans are used to elucidate the pathophysiology.

The pre-requisite of RC 101, 103, 107, 109, 112 are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 205 Cardiopulmonary Medical Science

In this course, lecture and laboratory are a study of advanced cardiopulmonary monitoring and support such as 12-lead EKGs, cardiac disease, stroke and management of trauma. Students learn the assessment and treatment of trauma victims of near drowning, burns, smoke inhalation, chemical and biological terrorism. Special emphasis is placed on chest trauma e.g. motor vehicle accident, penetration injuries and blast lung injuries.

The pre-requisites of BIO 132 and RC 101 are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Spring

RC 206 Rehabilitation Techniques in Respiratory Care

This course is the study of the assessment and development of therapeutic plans of patients with chronic pulmonary and cardiovascular diseases. Topics also include sleep studies, wellness and smoking cessation.

The pre-requisites of RC 101, 107, 200 and 210 are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 210 Clinical Experience II

This is a course in which both classroom/laboratory and field experience in metropolitan respiratory care departments are combined to provide the student with the clinical knowledge and skills. In the classroom/laboratory, students learn about airway management negative and positive pressure ventilation, patient/ventilator assessment, ventilator troubleshooting, and determining the effectiveness of the patient's respiratory care. In respiratory care clinical assignments, students learn to apply ventilator concepts in actual patient-care settings at clinically affiliated sites.

The pre-requisites of RC 109 and 112 are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Spring

RC 213 Theory and Practice of Respiratory Care II

The theory and practice of artificial airway management, positive pressure volume expansion therapies, mechanical ventilators, and interpretation of ventilator waveforms are discussed. Integration of oxygen and specialty gases mixtures and pharmacology is covered. Students

assemble, use and troubleshoot equipment used in such therapies.

The pre-requisites of RC 109 and 112 are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 5

Every Spring

RC 214 Cardiorespiratory Pharmacology

This is a study of the use of medicines for the treatment of cardiovascular and respiratory tract diseases. Discussions of particular interest are drugs that affect the central nervous system and sympathetic and parasympathetic nervous systems. Also discussed are pharmacological support for cardiovascular, respiratory and renal dysfunction/disease and moderate sedation anesthesia. For each drug, students learn the indications, contraindications, adverse reactions, doses, mechanism of action and routes of administration.

Credits: 3

Every Spring

RC 215 Selected Topics in Internal Medicine

This course addresses the respiratory care assessment and therapeutic intervention of chronic obstructive airways diseases, infectious diseases, neurology and other related areas. Emphases are placed on careful assessment of physical signs and symptoms, effective interventions and follow up care.

The pre-requisites of RC 200, 205, 210, 213 and 214; and MAT 100 or PSY 150, are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 225 Neonatal and Pediatric Respiratory Care

The cardiopulmonary system of the fetus, newborn and child and of the physiology, pathology, diagnosis and treatment of the neonatal and pediatric patient are discussed. Also addressed are the adaptation of therapeutic strategies for each developmental stage and the concept of family-centered care. Emphasizes the physiologic rationale underlying the therapeutic application of respiratory care modalities.

The pre-requisites of RC 205, 210 and 213; and MAT 100 or PSY 150, are required or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Fall

RC 229 Clinical Experience III

In this course, students receive instruction on advanced methods of mechanical ventilation. Students rotate through critical care, adult acute care, neonatal, pediatric, and surgical care units in the New York City region.

The pre-requisites of RC 200, 210, 213 and 214; and MAT 100 or PSY 150, are required or the student must be an active member of the

Respiratory Care Professional Student Group.

Credits: 8

Every Fall

RC 301 Independent Study

The student will be challenged to thoroughly investigate an aspect of Evidenced-Based Medicine as it pertains to respiratory care.

Credits: 3

On Demand

RC 311 Respiratory Critical Care

This is a study of advanced cardiopulmonary monitoring and management of critically ill adult and pediatric patients. Examples of therapies covered are ECMO, high frequency ventilation, high frequency oscillation, liquid ventilation, nitric oxide therapy and the aspects of ARDS management. Also discussed are liberation from mechanical ventilation and extubation/de-cannulation.

The pre-requisites of RC 206, 215, 225 and 229; and MAT 100 or PSY 150, are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 3

Every Spring

RC 312 Medical Ethics/Admin

This course investigates the current issues in medical ethics and law. Students are challenged by actual cases to develop ethical standards and defend their positions. The operational aspects of hospitals/departmental management and operations are studied. Healthcare regulations, financing and operational budget management are components. Additional work will investigate human resources in recruitment/retention, competency, motivation and discipline.

Credits: 2

On Occasion

RC 330 Clinical Experience IV

The student will rotate through advanced clinical specialties such as neonatal critical care, cancer critical care, etc. in a 15-week course that has 2 hours of laboratory, 2 hours of lecture and 24 hours of clinical work per week. Students will have the opportunity to earn the Advanced Cardiac Life Support (ACLS) certification.

The pre-requisite of RC 229, and MAT 100 or PSY 150 are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 8

Every Spring

RC 331 Principles to Practice in Respiratory Care

This course fulfills the writing intensive graduation requirement. In this course the student is challenged to develop a comprehensive care plan with its clinical interdisciplinary, administrative, educational, and evidenced-based medicine aspects. The integration of clinical priorities, administrative exigencies must provide the patient and the

healthcare system with an optimal outcome. To this endpoint, students will be required to construct interdisciplinary care plans, clinical simulations and training.

The pre-requisites of RC 213 and 229; and MAT 100 or PSY 150, are required; or the student must be an active member of the Respiratory Care Professional Student Group.

Credits: 4

Every Spring

DEPARTMENT OF SOCIAL WORK

Associate Professors: Samuel C. Jones, D.S.W.; Susanna Jones, Ph.D. M.S.W.; Jessica Rosenberg, Ph.D.

Assistant Professors: Donna Wang (Chair), Ph.D., M.S.W.; Kathryn Kruse, M.S.W., Ph.D., J.D.; Amandia Speakes-Lewis, Ph.D.; Jo Rees, Ph.D.
Field Education: Iris Mule, M.S.W.; Renie Rondon-Jackson, M.S.W.; Sabrina Brown, M.S.W.
Adjunct Faculty: 22

The Bachelor of Arts in Social Work program at LIU Brooklyn seeks to provide students with a foundation for entry-level generalist social work practice. The program builds on the liberal arts foundation and seeks to ground students in a bio-psycho-social approach to human behavior and of group/community dynamics. Our purpose is to provide students with the knowledge, values and skills for effective generalist intervention at individual, family, group, organizational, and community levels as well as with diverse client populations.

The program's vision of generalist practice is rooted in a systems approach and an ethnically-sensitive perspective. The systems approach means the generalist practitioner must be able to connect individual client problems to larger social, political and economic issues. The ethnically-sensitive approach, often referred to as cultural competence, is a critical component of the curriculum, particularly important because of the diverse makeup of the residents of Brooklyn. Students must be able to relate to clients from all types of backgrounds in an understanding and sensitive manner. The B.A. in Social Work is accredited by the Council on Social Work Education (C.S.W.E.). Visit www.cswe.org for more information.

Social Work Program Mission

The mission of the Bachelor of Arts in Social Work program is to guide a diverse student body on a path of critical inquiry with a goal of building competent, compassionate and committed generalist practitioners. The program, grounded in the professions knowledge, skills, and values, teaches students to become civically engaged by developing a nurturing learning community, both in the classroom and field. The program challenges students to work toward a just, equitable, caring society free from oppression and discrimination.

The mission of the program is consistent with the University's historic mission of preparing students "to achieve the satisfaction of the educated life and to serve the public good." The program is committed to preparing graduates for entry-level generalist social work practice and for advanced study in social work, while simultaneously addressing the needs of the urban social service agencies, particularly in Brooklyn and the surrounding area.

Social Work Program Goals

Goal 1: To prepare students with the foundation

social work knowledge, skills, and core values necessary for generalist practice with diverse populations, across different settings, and with clients systems on micro, mezzo, and macro levels.

Goal 2: To advance social work values and ethics emphasizing a commitment to social change, promoting social justice, and diversity while incorporating a global perspective.

Goal 3: To educate students for practice with diverse populations to promote well being and enhance the functioning of urban populations, with special attention to age, economic status, race, ethnicity, culture, family structure, gender identity, sex, sexual orientation, disability, health, mental health, national origin, citizenship status, religion, and spirituality.

Goal 4: To work closely and collaboratively with community resources to achieve mutually beneficial goals.

Goal 5: To prepare students for graduate social work education.

Admissions Requirements

- For admission to the baccalaureate program in social work, students should apply for formal admission during their sophomore year.
- Students must have a grade-point average of 2.5 and must have completed Social Work 101 (Introduction to Social Work) with a grade of B or better.
- Transfer students must obtain advisement from the Social Work program at the time of admission to LIU Brooklyn.

B.A. in Social Work

B.A., Social Work

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language 6 credits

Social Sciences

History 6 credits

Social Sciences 3 credits

(ANT, ECO, POL, PSY, SOC)

Science and Mathematics

Mathematics 3-4 credits

Laboratory Science 8 credits

(BIO 3 and BIO 4)

(Grade C+ or greater required)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts 3 credits
(ART, DNC, MUS, THE)

Ancillary Course Requirements:

Must complete all the following Biology courses.

BIO 101 Microbiology 3.00

BIO 131 Human Anatomy 4.00

BIO 132 Human Physiology 3.00

Choose one of the following Chemistry sequences.

CHM 3X General Chemistry 4.00

CHM 4X Introduction to Organic and Biochemistry 4.00

or

CHM 3 Principles of Chemistry I 4.00

CHM 4 Principles of Chemistry II 4.00

Choose one of the following Mathematics courses.

MTH 100 Introductory Statistics 3.00

PSY 150 Statistics in Psychology 3.00

Science Core: 8-10 credits required

Choose One of the Following Sequences

BIO 3 Life: It's Origin, Maintenance and Future 4.00

BIO 4 Life: It's Origin, Maintenance and Future 4.00

or

BIO 22 Biology and Modern Technology 3.00

CHM 21 Chemistry and Modern Technology 3.00

PHY 20 The Physical Universe 4.00

or

BIO 3 Life: Its Origin, Maintenance and Future 4.00

PHY 20 The Physical Universe 4.00

Social Science Core: 9 credits required

To satisfy this requirement, the student must complete three (3) courses numbered 100 or above from any of the following disciplines. Choose One of the Following Sequences:

History

Political Science

Psychology

Sociology

Anthropology

Major Requirements

Must Complete All 14 Courses Listed Below.

SWK 101 Introduction to Human Services and Social Work 3.00

SWK 114 Social Welfare Institutions 3.00

SWK 115 Social Welfare and Public Policy 3.00

SWK 116 Human Diversity 3.00

SWK	121	Social Work Research	3.00
SWK	123	Human Behavior in the Social Environment I	3.00
SWK	124	Human Behavior in the Social Environment II	3.00
SWK	130	Writing for the Social WOrk Profession	3.00
SWK	170	Social Work Practice I	3.00
SWK	171	Social Work Practice II	3.00
SWK	180	Social Work Fieldwork I	4.00
SWK	181	Social Work Fieldwork II	4.00
SWK	182	Fieldwork Seminar I	3.00
SWK	183	Fieldwork Seminar II	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits:
96 credits

Minimum Total Major Credits: 42 credits

Minimum Credits Above 100 Level Courses: 48
credits

Ancillary Course Requirements: See Above

Minimum Social Work Major G.P.A.: 2.0

Minimum Cumulative G.P.A.: 2.0

Social Work Courses

SWK 99 Com Grd Servc Learnng

The Common Ground Service Learning experience is open to all LIU Brooklyn students who wish to perform community service. Some professors assign it as part of a class requirement. However, if you wish to perform community service independently, you can!

Credits: 0

Every Fall and Spring

SWK 101 Introduction to Social Work

An examination of both historical and contemporary social work practice focusing on the knowledge, values and skills of generalist practice, along with career opportunities.

Pre-requisites of SOC 3, PHI 61 and PSY 3 are required.

Credits: 3

Every Fall and Spring

SWK 114 Social Welfare History & Institutions

An introduction to social welfare institutions and programs in the United States. An historical examination of social welfare policy and program development in the U.S. is presented. Some cross country comparative analyses of social welfare programs are explored. Close attention is paid to how the historical and contemporary development of the social welfare system intersects with forms and mechanisms of oppression and discrimination. *The pre-requisite of SWK 101 is required.*

Credits: 3

Every Fall and Spring

SWK 115 Social Welfare Policy Analysis

Students learn about social welfare policy and how to engage in a comprehensive policy analysis. Critical thinking skill development is central to policy analysis. The connection between social welfare policy analysis and social work practice is highlighted with effective policy action as the goal. *The pre-requisite of SWK 114 is required.*

Credits: 3

Every Fall and Spring

SWK 116 Diversity

Human diversity is thoroughly examined and students gain a better understanding of how to work with diverse populations. The course explores how structures and values may oppress, marginalize, alienate or enhance power and privilege. Self awareness to eliminate personal bias is examined. The course draws from a range of disciplines and theories, such as: the strengths perspective, the person-in-the environment concept, theories of intersectionality, critical race theory, and social constructionism.

Pre-requisite of ANT 5 is required.

Credits: 3

All Sessions

SWK 121 Social Work Research

This course is a basic introduction to research methods in the social sciences and in the field of social work in particular. The fundamentals of research are taught as a problem-solving, critical thinking approach that ultimately relates to the knowledge of and ability to engage in research-informed practice and practice-informed research. *Pre-requisite of MTH 15 or MTH 16 is required.*

Credits: 3

Every Fall

SWK 122 Gerontological Social Work

Demographic data about the aging population are presented. Students study the process of aging on a developmental lifecycle continuum and learn effective means of communicating with the aged. Students become aware of how personal feelings, attitudes, and values influence the social worker's role in working with aging clients. Types and prevalence of mental disorders, key assessment methods, health, financial and ethical issues, along with community and Internet resources serving the aging population are provided.

Credits: 3

On Demand

SWK 123 Human Behavior in the Social Environment I

Human behavior and the social environment (HBSE) I examines the human within the micro context. The course integrates multiple theories and knowledge of bio-psycho-social development to understand the individual within the larger environment. The course focus is on the individual yet uses a person-in-environment framework to view behavior in the context of the family, community, culture, and world.

Pre-requisites of SWK 101 and BIO 22 are required.

Credits: 3

Every Fall

SWK 124 Human Behavior in the Social Environment II

Human behavior and the social environment (HBSE) part II is a continuation in the HBSE sequence. Part II utilizes theories to explain human behavior through the macro lens, which explores how systems and institutions influence and affect human behavior.

Pre-requisite of SWK 123 is required.

Credits: 3

Every Spring

SWK 128 SWK & CRIMINAL JUSTICE

This elective course examines the impact of the criminal justice system (focusing primarily on incarceration) on children, families, and communities. Various roles that social workers play at the level of direct service, advocacy/ community organizing, and policy are explored. Class topics will be connected to current events and criminal justice references in popular culture.

Credits: 3

On Demand

SWK 130 Professional Writing for Social Work

Social Work is a profession that demands the ability to compose accurate, detail-oriented narrative reports using terminology specific to the field. The process of gathering and documenting clinical information, integrating, synthesizing and sequencing data into areas of concern and expertise will enable students to think like social workers and communicate professionally with others in the field. Core competencies, namely analysis, categorization and interpretation of client data, will be reinforced and embedded through documentation. Students will learn multiple concrete skills that will advance their professional writing.

Credits: 3

Every Fall and Spring

SWK 131 Contemporary Challenges in Community Mental Health

This elective examines the policy and practice challenges of providing community mental health services to the seriously mentally ill. Designed as an upper level course in the social work sequence, the course will cover de-institutionalization, the consumer movement, best practices, and the recovery movement. Topics will include an overview of major mental illness, working with the homeless mentally ill, mental illness and incarceration, and community mental health services to the military. Ethical dilemmas about the tensions between self-determination and mandated treatment will be explored.

Credits: 3

On Demand

SWK 170 Social Work Practice I

Beginning social work practice skills used with individuals, families and groups are examined with a particular focus on engagement, assessment, intervention and evaluation. Cultural and diversity issues in treatment, ethical dilemmas and social justice as it impacts and shapes contemporary social work practice are identified. Methods of student learning include, but are not limited to, case study, role-play, group work, and class discussion. *The pre-requisite of SWK 101 is required.*

Credits: 3

Every Fall

SWK 171 Social Work Practice II

This second practice course that follows Practice I (SWK 170) teaches concrete practice skills in the context of macro systems: groups, organization, and communities. Knowledge and skills about engagement, assessment, intervention and evaluation are explored through a macro lens.

Pre-requisites of SWK 123 and 170 are required.

Credits: 3

Every Spring

SWK 180 Social Work Fieldwork I

During senior year, students complete an intensive field internship (a minimum of 200 hours during

fall semester and 200 hours during spring semester = 400 hours) at approved social service programs with professional social work supervision. Students apply the theories and knowledge learned in the classroom to develop and strengthen their social work skills in practice. An integral part of the internship experience is the accompanying field seminar, SWK 182.

The pre-requisites of SWK 123, SWK 124, SWK 170 and SWK 171 are required.

Credits: 4

Every Fall

SWK 181 Social Work Fieldwork II

During senior year, students complete an intensive field internship (a minimum of 200 hours during fall semester and 200 hours during spring semester = 400 hours) at approved social service programs with professional social work supervision. Students apply the theories and knowledge learned in the classroom to develop and strengthen their social work skills in practice. An integral part of the internship experience is the accompanying field seminar course, SWK 183.

The pre-requisite of SWK 180 is required.

Credits: 4

Every Spring

SWK 182 Fieldwork Seminar I

Concurrent with senior-year field placement, students participate in a seminar to assist in integrating the experiential component with their theoretical knowledge. Students are also made aware of the implications of field experiences for policy, research, and ethical issues.

The pre-requisites of SWK 123, SWK 124, SWK 170 and SWK 171 are required.

The co-requisite of SWK 180 is required.

Credits: 3

Every Fall

SWK 183 Fieldwork Seminar II

Concurrent with senior-year field placement, students participate in a seminar to assist in integrating the experiential component with their theoretical knowledge. Students are also made aware of the implications of field experiences for policy, research, and ethical issues.

The pre-requisite of SWK 182 is required.

Credits: 3

Every Spring

SWK 196 Honors Study

Honors Study is a course in which students will connect theory to practice on a level that demonstrates their full range of social work knowledge and skills as they attempt to explore a social work related issue. To this end, the student may choose to focus on an approved topic or social problem by starting from a theoretical position and work towards practice issues or visa-versa. The process and transition from theory to practice or practice to theory must be supported by evidence. The evidence may come from the existing fund of knowledge or may be the result of their own

discovery and research. Students will be encouraged to generate new knowledge, choose appropriate practice skills and tools and develop effective interventions.

Credits: 3

On Demand

SWK 197 Independent Study

Students are able to work intensively with faculty on a topic of interest.

Credits: 3

On Demand

SWK 198 Independent Study

Students are able to work intensively with faculty on a topic of interest.

Credits: 3

On Demand

SCHOOL OF NURSING

The School of Nursing is dedicated to educating its students to become nurses who provide the highest quality of nursing care to a diverse and complex population in challenging and ever-changing social, political and economic environments across the country and around the globe. The School offers an undergraduate baccalaureate program for students with no nursing background (generic track) as well as an R.N.-B.S. program for nurses who do not hold a B.S. degree.

Flexible undergraduate tracks are offered for students in the generic program. The Part-time/Evening track is specially designed for those students who work during the day.

The 15-month accelerated track is offered to those students who hold a baccalaureate degree in another discipline.

An accelerated RN-BS/MS degree program (Bachelor of Science/Master of Science) is offered in both the nurse practitioner and nurse executive tracks. The School of Nursing admits students on a “rolling” basis and most courses are offered each semester.

The undergraduate program is fully accredited by the Commission on Collegiate Nursing Education (C.C.N.E.) and all of its programs are registered with the New York State Education Department. Graduates of the B.S./M.S.Nursing/Adult Nurse Practitioner Program are eligible for New York State certification as an adult nurse practitioner.

For information, please contact the School of Nursing at 718-488-1059, fax 718-780-4019, email us at galdamez@liu.edu, or visit the website at www.liu.edu/brooklyn/son.

Dr. Barry Eckert

Interim Dean

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Associate Dean School of Nursing

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Advisor

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School of Nursing

Professors: Kilts, Levine-Brill

Associate Professors: Acee, Carr, Dropkin, Sanderson-Marcoux (Associate Dean), O'Brien, Reynolds, Ma, Marsala-Cervasio, Dobal, Sweeny
 Assistant Professors: Broholm, Dubal, D'Antonio, Iacobellis, Biray, Lall, Brennan, Harrison, Hauck, Maydick, Valenti

Adjunct Faculty: 65

B.S. in Nursing

For those just starting to think about a career path as well as those who are interested in career change, the field of nursing offers a broad array of options and a wealth of employment opportunity. LIU Brooklyn's School of Nursing offers a 128-credit Bachelor of Science in Nursing that is fully accredited by the New York State Education Department and the Commission on Collegiate Nursing Education.

Students have the opportunity to complete the program in one of following four tracks:

- Full time day track
- Part-time day track
- Part-time Evening/Weekend Track (for those students who work during the day)
- The full-time 15-month accelerated 2nd degree track, for students who currently hold a baccalaureate degree in another discipline.

The program is designed to prepare students to develop the competencies essential for beginning professional nursing practice, and to build a foundation for graduate study. Full-time and part-time, evening and weekend courses of study are available.

Upon completion of the program graduates are able to:

- Pass State Nursing Licensure exam on the first attempt
- Enter into professional nursing practice within 3-6 months of graduation
- Communicate effectively on a written and oral basis
- Deliver client-centered care that is culturally sensitive, safe and compassionate
- Practice within the legal and ethical parameters of the nursing profession
- Become a provider of care, a manager of care and a member of the profession
- Advocate for equitable health care, public policy and health literacy for all individuals, families, and local and global communities
- Use nursing science as the basis for nursing practice
- Integrate knowledge from current technological, research and evidence-based practice for the improvement of health care
- Practice and adhere to the ANA Code of Ethics

The program is designed to be completed in four academic years. If a student requires proficiency and skills courses, however, the course

of study may be lengthened. All full-time students are expected to complete the courses in the Nursing sequence within two years. Part-time students are expected to complete the nursing sequence in four years.

Admissions Requirements

For acceptance as a nursing major:

- High school students must have an 85 high school average over four years of work or 1000 on the SAT.
- Transfer students must have a 2.75 cumulative grade-point average for all work done at other colleges and a 2.75 cumulative science average.
- Transfer students with less than 24 college credits must meet both transfer and freshman requirements.
- Upon acceptance to the nursing major, freshman (and transfer students whose English and mathematics courses have not been accepted by the University) are required to take a placement exam to assess skills in reading, English and mathematics. Exam results are used to program the student's first courses in the appropriate English and mathematics courses.
- Progression into the professional phase of the program requires that students maintain a minimum grade-point average of 2.5 and earn no less than C in any science course, in addition to satisfying all prerequisite courses and passing the HESI A2 exam with the required minimum combined score of 75 in each area: vocabulary, grammar, and reading comprehension and math sections. In addition, they must have a minimum overall grade-point average of 2.5 and a minimum overall average of 2.5 in science courses.

Prior to entry into the first clinical Nursing course, students are responsible for fulfilling clinical clearance. Clinical clearance means that the student has completed and submitted the following:

- Health form with all required information such as titers value, PPD, or results of chest X-ray, hepatitis status or declination.
 - Results of drug screening
 - Results of criminal background check
 - Current CPR
 - Evidence/documentation of medical insurance coverage
 - Attended orientation
 - Completed OSHA mandatories
 - Possible fit testing with payment
- The Director of Laboratory Resources can provide further information.

Students already enrolled at LIU Brooklyn who wish to enter the Nursing Program must submit a Request for a Change of Major at least one semester prior to the semester they wish to enter the program.

Continued enrollment in this program is contingent upon:

- Maintaining at least a 2.5 overall grade-point average.

- Maintaining a minimum nursing grade-point average of 2.5.
- Earning a grade of C+ or better in each nursing course.
- Repeating no more than one nursing course.
- Earning a B or better in any repeated nursing course.
- Completing all co-requisite courses.
- Fulfilling all clinical clearance requirements prior to the beginning of each clinical nursing course.
- Attending a mandatory hospital orientation program each semester.
- Demonstrating competency in drug-dosage calculation during specified semesters.
- Demonstrating competency in the clinical laboratory courses.
- Passing both lecture and clinical portions of courses with a laboratory section.

In addition to the course of study, students are required to complete 100 hours of community service.

Nursing courses taken in baccalaureate programs at other institutions will be reviewed by the dean or a designee. Appropriate academic credit may then be assigned.

Grades of C or better are required for all transfer credits. All advanced standing credit is provisional until the student has completed a minimum of 32 credits with a grade-point average of at least 2.75.

All students taking a Nursing course with a clinical/laboratory component are required to have health insurance and to have satisfactory yearly physical examination reports. The completed health form and the Health Clearance Certificate must be submitted to the Director of Laboratory Resources in the School of Nursing by Aug. 1 for the Fall semester and by Dec. 1 for the Spring semester. It is the responsibility of students to obtain specific laboratory tests at their own expense. Students are strongly advised to be vaccinated against hepatitis B. Failure to submit the aforementioned reports within the specific time limit automatically denies admittance of students to Nursing courses with clinical components.

In compliance with the U.S. Public Health Service requirements, it is recommended that pregnant students not enroll in the Microbiology or Human Anatomy courses or engage in clinical practice where there are clients with infectious diseases unless first receiving written permission from their health care providers.

In addition, all students are required to have a criminal background check and drug screening to enter clinical courses.

Furthermore, students in all clinical/ laboratory courses are required to purchase, at their own expense, the uniforms and other equipment appropriate to or required by the agency to which they are assigned.

Because the Nursing curriculum is designed to reflect current trends in healthcare legislation, changes in the delivery of health care and nursing

trends, the Nursing faculty reserves the right to make reasonable curriculum and policy changes without prior notice to the student body. When possible, students will be notified in advance.

R.N./B.S. Connection Program (For Registered Nurses)

The B.S. in Nursing is available to registered nurses seeking the baccalaureate degree through the School of Nursing's R.N.-B.S. Connection Program. The program is offered in a blended format and builds on the knowledge that R.N.s already possess, while providing a wide range of liberal arts, sciences and baccalaureate level nursing courses to help broaden their expertise and lay the foundation for advancement in the profession. The blended format provides opportunities for the registered nurse student to utilize a variety of learning methodologies; face-to-face interaction with faculty and classmates and online learning.

The R.N.-B.S. Connection Program truly allows those enrolled to immediately apply what they learn in the classroom to their everyday work. The need for flexibility in scheduling is acknowledged.

Admissions Requirements

To be admitted to this program, a candidate must:

- Possess current registered nurse licensure
- Be a graduate of an accredited nursing program
- Have a minimum of a 2.75 cumulative grade-point average from previous academic studies

Registered nurses who are graduates from accredited associate degree programs admitted into the program may receive up to 64 transfer credits, including required core curriculum, prerequisite, and distribution credits. Transferred credits may also include up to 31 credits in nursing courses for work previously completed. To complete the required 128 credits for a baccalaureate degree, all R.N. students must successfully complete all courses for which no transferred credit has been received. Any additional credits required to complete 128 credits may be taken as electives from the liberal arts and sciences or from Nursing.

Registered nurses who are graduates of hospital-based (diploma) or foreign schools of nursing may be admitted to the R.N.-B.S. Connection Program. Upon completion of the NLN Mobility Profile II examinations, they may receive up to 31 credits for previously completed work. Graduates from hospital based or foreign schools of nursing must also take the University's placement examinations in mathematics and English. Graduates from foreign schools of nursing who successfully completed the CGFNS (Commission on Graduates of Foreign Schools of Nursing) examinations will be awarded 31 nursing credits for previous work completed.

Graduates from foreign schools of nursing who did not take the CGFNS examinations must take the Mobility Profile II examinations. Mobility

Profile II examinations validate knowledge of care of the adult, the client with mental disorders, the childbearing client and the child. Students who fail to achieve an acceptable grade on any portion of the Mobility Profile II examinations may receive credit for the failed portion by registering for and successfully completing the appropriate generic nursing course.

Program of Study for Registered Nurses Who Do Not Possess an Associate Degree in Nursing

Students must satisfy all liberal arts and science requirements to earn 64 credits in addition to the nursing requirements.

Program of Study for Nurses with an Associate Degree in Nursing

Students must satisfy all core, humanities, distribution, science and mathematics, and ancillary requirements. Students with an associate degree must present satisfactory transfer credits for requisite LIU Brooklyn courses. Otherwise, all requisite courses must be completed at LIU Brooklyn.

School of Nursing Requirements

Nursing credits transferred from Associate Degree in Nursing 31
Nursing 297, 298, 299, 396
397, 398, 495, 496, 497 31

B.S., Nursing

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits
Humanities
English Composition 3 credits
English Literature 6 credits
Philosophy 6 credits
Foreign Language Not Required

Social Sciences

History 6 credits
Psychology 3 credits
Social Sciences 3 credits
(ANT, SOC)

Science and Mathematics

Mathematics 3 credits
Laboratory Science 8 credits
(BIO 3 and BIO 4)

Communication, Visual & Performing Arts

Speech 3 credits
Visual & Performing Arts Not Required
(ART, DNC, MUS, THE)

Ancillary Requirements

Must take all of the following courses:

BIO 101 Microbiology 3.00
CHM 3X General Chemistry 4.00

CHM 4X Introduction to Organic and Biochemistry 4.00
PSY 107 Developmental Psychology I 3.00
PSY 108 Developmental Psychology II 3.00

Nursing Students can take TAL 250 in lieu of PSY 107 & PSY 108

TAL 250 Developmental Psychology 3.00

Choose one (1) of the following two (2) courses:

MTH 100 Introductory Statistics 3.00
PSY 150 Statistics in Psychology 3.00

Distribution Requirement

The following courses must be fulfilled:

Nursing Students who have completed both BIO 131 and 132 are not required to take BIO 3 and BIO 4 as per Department and Dean.

BIO 131 Human Anatomy 4.00
BIO 132 Human Physiology 3.00

Nursing Generic Track

Major Requirements:

NUR 190 Clinical Nursing I: Nursing Foundations 4.00
NUR 192 Clinical Nursing II: Nursing Care of the Older Adult 5.00
NUR 197 Pathophysiology in Nursing 3.00
NUR 198 Pharmacology in Nursing 3.00
NUR 199 Principles of Medication Administration 1.00
NUR 290 Clinical Nursing III: Gender Specific Nursing 4.50
NUR 292 Clinical Nursing IV: Behavioral Health Nursing 4.50
NUR 293 Research in Nursing 3.00
NUR 295 Health Assessment in Nursing 3.00
NUR 390 Clinical Nursing V: Nursing Care of the III Adult I 6.00
NUR 392 Clinical Nursing VI: Nursing Care of Children and Their Families 4.00
NUR 393 End of Life Nursing Care 3.00
NUR 395 Leadership, Management and Contemporary Issues in Nursing 3.00

NUR 490	Clinical Nursing VII: Nursing Care of the III Adult II	6.00
NUR 492	Clinical Nursing VIII:Community Centered Nursing	5.00
NUR 494	Transition to Professional Nursing Practice	3.00

R.N. to B.S. in Nursing Track

Major Requirements:

R.N. to B.S. Baccalaureate Completion Track (For Registered Nurses Only)

Core Curriculum Requirements for Nursing R.N.-B.S. Completion

Associate degrees from accredited Colleges and/or Universities will satisfy the following:

Professional Phase* Requirements

Registered Nurse students from accredited Nursing programs will receive transfer credits for the following Nursing courses:

NUR 190	Clinical Nursing I: Nursing Foundations	4.00
NUR 192	Clinical Nursing II: Nursing Care of the Older Adult	5.00
NUR 290	Clinical Nursing III: Gender Specific Nursing Across the Life Span	4.50
NUR 292	Clinical Nursing IV: Behavioral Health Nursing	4.50
NUR 390	Clinical Nursing V: Nursing Care of the III Adult 1	6.00
NUR 392	Clinical Nursing VI: Nursing Care of Children and their Families	4.00
NUR 490	Clinical Nursing VII: Nursing Care of the III Adult 2	6.00

Baccalaureate Requirements

NUR 297	Introduction to Baccalaureate Nursing Education	3.00
NUR 298	Introduction to Nursing Informatics	3.00
NUR 299	Health Promotion I: Health Assessment Across the Life Span	3.00
NUR 396	Leadership and Management	3.00
NUR 397	Health Promotion II: Nursing Management of Complex Health	3.00

NUR 398	Nursing Research for Evidence-Based Nursing Practice	3.00
NUR 495	Leadership and Management II: Budgeting, Finance and Health Care Policy	4.00
NUR 496	Health Promotion III: Health Care needs of Diverse Populations	4.00
NUR 497	Health Promotion IV: Community Based Nursing Practice	5.00

*All R.N.-B.S. students must have a minimum of 64 credits in Liberal Arts and 32 credits of Residency to meet graduation requirements.

Accelerated B.S. in Nursing

Accelerated B.S. Nursing Track

Major Requirements

NUR 190	Clinical Nursing I: Nursing Foundations	4.00
NUR 192	Clinical Nursing II: Nursing Care of the Older Adult	5.00
NUR 197	Pathophysiology in Nursing	3.00
NUR 198	Pharmacology in Nursing	3.00
NUR 199	Principles of Medication Administration	1.00
NUR 290	Clinical Nursing III: Gender Specific Nursing	4.50
NUR 292	Clinical Nursing IV: Behavioral Health Nursing	4.50
NUR 293	Research in Nursing	3.00
NUR 295	Health Assessment in Nursing	3.00
NUR 390	Clinical Nursing V: Nursing Care of the III Adult I	6.00
NUR 392	Clinical Nursing VI: Nursing Care of Children and Their Families	4.00
NUR 393	End of Life Nursing Care	3.00
NUR 395	Leadership, Management and Contemporary Issues in Nursing	3.00
NUR 490	Clinical Nursing VII: Nursing Care of the III Adult II	6.00

NUR 492	Clinical Nursing VIII:Community Centered Nursing	5.00
NUR 494	Transition to Professional Nursing Practice	3.00

Credit and G.P.A. Requirements

Minimum Total Credits: 128 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits: 30 credits

Minimum Credits Above 100 Level Courses: 48 credits

Ancillary Course Requirements: See Above

Distribution Course Requirements: See Above

Minimum Nursing Major G.P.A.: 2.5

Minimum Cumulative G.P.A.: 2.5

B.S./M.S. Accelerated Programs for Adult Nurse Practitioners and Nurse Executives

B.S./M.S. Nursing/Adult Nurse Practitioner

B.S., Nursing / M.S., Adult Nurse Practitioner (ANP)

Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language Not Required

Social Sciences

History 6 credits

Psychology 3 credits

Social Sciences (ANT, SOC) 3 credits

Science and Mathematics

Mathematics 3 credits

Laboratory Science 8 credits

(BIO 3 and BIO 4)

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts Not Required

(ART, DNC, MUS, THE)

Ancillary Course Requirements:

Must complete Both of the Following Psychology Courses.

PSY 107 Developmental Psychology I 3.00

PSY 110 Abnormal Psychology 3.00

Choose One of the Following Sociology or Anthropology Courses

ANT 4 Physical Anthropology 3.00

ANT 5 Cultural Anthropology 3.00

SOC 3 Introduction to Sociology 3.00

Choose One of the Following Psychology Courses

PSY 107 Developmental Psychology I 3.00

PSY 110 Abnormal Psychology 3.00

48 credits above 100 (Advanced Courses) Required.

Science Core Requirement: Nursing students who have completed both BIO 131 and BIO 132 need not complete BIO 3 and 4 per Department and Dean. Science requirement has been satisfied.

BIO 131 Human Anatomy 4.00

BIO 132 Human Physiology 3.00

Major Requirements

UNDERGRADUATE COURSES - Nursing
The following R.N. - B.S. Nursing courses must be completed before taking graduate nursing courses:

NUR 297 Introduction to Baccalaureate Nursing Education 3.00

NUR 299 Health Promotion I: Health Assessment 3.00

NUR 396 Leadership and Management I 3.00

NUR 398 Nursing Research for Evidenced-Based Nursing Practice 3.00

NUR 496 Health Promotion III: Health care needs of Diverse Populations 4.00

NUR 497 Health Promotion IV: Community-Based Nursing Practice 5.00

GRADUATE COURSES - ANP

Graduate Courses Shared by both Nurse Executive and ANP Programs

NUR 610 Nursing Research 3.00

NUR 620 The Theoretical Basis of Advanced Practice Nursing 3.00

NUR 670 Healthcare Issue Policies and Ethics 2.00

Specialty Course Requirements for ANP

NUR 611 Advanced Medical Physiology 3.00

NUR 612 Pathophysiology for Advanced Practice 3.00

NUR 614 Healthcare Issue Policies and Ethics 2.00

NUR 615 Health Care of the Older Adult 2.00

NUR 630 The Advanced Practice Role 2.00

NUR 634 Advanced Physical Assessment 3.00

NUR 644 Pharmacology 4.00

NUR 650 Diagnosis and Management of Illnesses and Physical Conditions of the Adult I 4.00

NUR 654 Preceptored Practicum in Primary Care of the Adult 4.00

NUR 660 Diagnosis and Management of Illnesses and Physical Conditions of the Adult II 4.00

NUR 664 Preceptored Practicum in Primary Care of the Adult II 4.00

Credit and G.P.A. Requirements

Minimum Total Credits: 150 credits

Minimum Total Liberal Arts and Sciences Credits: 64 credits

Minimum Total Major Credits Undergraduate: 21 credits

Minimum Total Major Credits Graduate: 43 credits

Ancillary Course Requirements: See Above

Minimum Major G.P.A.: 3.0

Minimum Cumulative G.P.A.: 2.5

B.S./M.S. in Nursing/Executive Program for Nursing and Health Care Management

B.S., Nursing / M.S., Executive Program for Nursing and Health Care Management (Nurse Executive) Graduation Requirements

Students must satisfy the Placement, Proficiency, Orientation and Core Curriculum criteria outlined in the Graduation Requirements section of this Bulletin.

Core Curriculum Requirements for this major are summarized below:

Core Seminar 3 credits

Humanities

English Composition 3 credits

English Literature 6 credits

Philosophy 6 credits

Foreign Language Not Required

Social Sciences

History 6 credits

Psychology 3 credits

Social Sciences (ANT, SOC) 3 credits

Science and Mathematics

Mathematics 3 credits

Laboratory Science (BIO 3 and BIO 4) 8 credits

Communication, Visual & Performing Arts

Speech 3 credits

Visual & Performing Arts (ART, DNC, MUS, THE) Not Required

Ancillary Requirements

Must take all of the following courses:

BIO 101 Microbiology 3.00

CHM 3X General Chemistry 4.00

CHM 4X Introduction to Organic and Biochemistry 4.00

PSY 107 Developmental Psychology I 3.00

PSY 108 Developmental Psychology II 3.00

Nursing Students can take TAL 250 in lieu of PSY 107 & PSY 108

TAL 250 Developmental Psychology 3.00

Choose one (1) of the following two (2) courses:

MTH 100 Introductory Statistics 3.00

PSY 150 Statistics in Psychology 3.00

Distribution Requirement

The following courses must be fulfilled:

Nursing Students who have completed both BIO 131 and 132 are not required to take BIO 3 and BIO 4 as per Department and Dean.

BIO 131 Human Anatomy 4.00

BIO 132 Human Physiology 3.00

Major Requirements

UNDERGRADUATE COURSES - Nursing

The following RN-BS Nursing courses must be completed before taking graduate nursing courses:

NUR 297 Introduction to Baccalaureate Nursing Education 3.00

NUR 299 Health Promotion I: Health Assessment 3.00

NUR 396 Leadership and Management I 3.00

NUR 398 Nursing Research for Evidenced based Nursing Practice 3.00

NUR	496	Health Promotion III: Health care needs of Diverse Populations	4.00
NUR	497	Health Promotion IV: Community Based Nursing Practice	5.00

Minimum Cumulative G.P.A.: 2.5

GRADUATE Courses - Nurse Executive
Graduate Courses shared by Both ANP and
Nurse Executive Programs

NUR	610	Nursing Research	3.00
NUR	620	The Theoretical Basis of Advanced Practice Nursing	3.00
NUR	670	Health Care Policy, Issues, and Ethics	2.00

Specialty Course Requirements for Nurse
Executive

GBA	512	Principles of Management and Leadership	3.00
GBA	517	Fundamentals of Management Information Systems	3.00
MAN	722	Human Resources Management	3.00
MPA	613	Foundations of Health Systems Finance	3.00
NUR	688	Organizational Performance	3.00
NUR	674	The Nurse Executive and the Changing Health Care System	3.00
NUR	675	Nursing Finance	3.00
NUR	680	Internship in Nursing and Health Care Management I	5.00
NUR	682	Internship Seminar in Nursing and Health Care Management I	2.00
NUR	684	Intership in Nursing and Health Care Management II	5.00
NUR	686	Internship Seminar in Nursing and Health care Management II	2.00

Credit and G.P.A. Requirements

Minimum Total Credits: 150 credits
 Minimum Total Liberal Arts and Sciences Credits:
 64 credits
 Minimum Total Major Credits Undergraduate: 21
 credits
 Minimum Total Major Credits Graduate: 41
 credits
 Minimum Credits Above 100 Level Courses: 48
 credits
 Ancillary Course Requirements: See Above
 Minimum Major G.P.A.: 3.0

Nursing Courses

NUR 177 Diabetes in the Community

An exploration of current information about diabetes, with a focus on knowledge about the types of diabetes, known risk factors and current treatment modalities. The impact of diabetes on persons with the disease and their families, with an emphasis on the impact of culture on treatment, is discussed. Three credits. Open to all students

Credits: 3

On Occasion

NUR 178 Nutritional Perspectives for Good Health

An opportunity for students to gain understanding about the nutritional needs of individuals. Fundamentals of carbohydrates, proteins, fats, vitamins and minerals are studied, as well as nutritional concepts and concerns relating to the life cycle. Other topics include vegetarianism and food faddism. Students are encouraged to examine their own points of view and lifestyles as they relate to nutritional factors. Open to all students.

Credits: 2

On Occasion

NUR 182 AIDS: A Multidimensional Epidemic

A course designed to explore AIDS as an example of society's reaction to crises in terms of medical, legal, ethical/moral, political and social implications. Following an introduction to the AIDS syndrome, its causes, manifestations, contagious factors and medical treatment, attention is focused on attitudes and values of society toward AIDS and the at-risk populations. Examined are concepts such as quality of health care, research funding, stigma, homophobia, alienation and isolation. Open to all students.

Credits: 3

On Occasion

NUR 184 Health Needs of Diverse Populations

A critical study of the health needs of minority groups in an urban setting. Students identify forces in society that affect peoples from Asia, Africa, the Caribbean and the Americas and study current health issues. The effects of overcrowding, poverty, disease, crime, drugs, inadequate housing and ineffective health-care systems are examined. The formulation of a plan for improvement is generated through lecture, discussion and group projects. Open to all students.

Credits: 3

On Occasion

NUR 186 Addiction: Theories Topics and Treatments

An introduction to the theoretical roots of addiction addressing the biological, psychological, sociological and spiritual components. An historical perspective is provided for the examination of currently utilized treatment modalities, such as 12-step programs, therapeutic

communities, traditional rehab (medical model) and methadone maintenance. The role of the family is explored in both disease and treatment. Open to all students.

Credits: 3

On Occasion

NUR 188 Holistic Health: A Journey Toward Wholeness and Wellness

An introduction to the core concepts of holistic health, which represents a state of harmony of body, mind, emotions and spirit in an ever-changing environment. Emphasis on self-care and self-responsibility is developed to guide the student. Open to all students.

Credits: 3

On Occasion

NUR 190 Clinical Nursing I: Nursing Foundations

This course introduces the student to the foundations of nursing practice at the baccalaureate level. Through the didactic portion of the course, students are introduced to curriculum threads which include: a focus on the individual as a biopsychosocial, cultural and spiritual being, Maslow's hierarchy of needs, nursing process, theoretical bases for nursing practice, primary, secondary, and tertiary prevention, life span development, nutrition, human sexuality, genomics, nursing informatics, Complementary and Alternative Modalities (CAM), group process, Healthy People 2010, and all hazards preparedness. The theoretical and evidence based underpinnings of selected basic nursing skills are taught.

Laboratory and observational experiences provide students with opportunities to practice basic nursing skills in order to prepare them for performance in the clinical setting.

The following courses are all required pre-requisites: BIO 3, 4, 101, 131, 132; CHM 3X, 4X; PSY 3; SOC 3 or ANT 4 or ANT 5; MAT 100 or PSY 150; PSY 107 and 108 or TAL 250; Pass the HESI A2 examination.

Credits: 4

Every Fall, Spring and Summer

NUR 192 Clinical Nursing II: Nursing Care of the Older Adult

This course introduces students to the nursing care of the well elderly to enhance understanding of the aging process. Students are also introduced to older adults with common deviations in health. Using evidenced based nursing practice, the nursing process and Maslow's hierarchy of human needs, students apply knowledge learned in lecture to clinical situations. The SON curriculum threads, concepts of critical thinking, pharmacotherapy, and legal issues are applied to the healthy older adult and those who are experiencing illness, abuse or neglect. Clinical experiences which provide students with opportunities to practice are included.

The following courses are all required pre-

requisites: BIO 3, 4, 101, 131, 132; CHM 3X, 4X; PSY 3; SOC 3 or ANT 4 or ANT 5; MAT 100 or PSY 150; PSY 107 and 108 or TAL 250; Pass the HESI A2 examination.

Credits: 5

Every Fall and Spring

NUR 197 Pathophysiology in Nursing

This course introduces students to the concepts of pathophysiology and altered health states in order to relate normal body functioning to the physical and physiologic changes occurring in disease processes. The course provides a foundation for future study in examining responses to illness in subsequent terms.

The following courses are all required pre-requisites: BIO 3, 4, 101, 131, 132; CHM 3X, 4X; PSY 3; SOC 3 or ANT 4 or ANT 5; MAT 100 or PSY 150; PSY 107 and 108 or TAL 250; Pass the HESI A2 examination.

Credits: 3

Every Fall, Spring and Summer

NUR 198 Pharmacology in Nursing

This course introduces students to the role of the baccalaureate nurse in the management of clients receiving drug therapy in a variety of healthcare settings. The essential principles and concepts of drug therapy are discussed while incorporating the impact of age, gender, ethnicity, health status, alternative modalities, nutrition and food on drug therapy. The nursing care of the client is emphasized through the use of case studies. Client and family education are stressed as integral to the success of all drug therapy. Patient safety initiatives and evidence based practice are integrated throughout the course content.

The following courses are all required pre-requisites: BIO 3, 4, 101, 131, 132; CHM 3X, 4X; PSY 3; SOC 3 or ANT 4 or ANT 5; MAT 100 or PSY 150; PSY 107 and 108 or TAL 250; Pass the HESI A2 examination.

Credits: 3

Every Fall, Spring and Summer

NUR 199 Principles of Medication Administration

This course focuses on medication administration to provide the student with essential knowledge and skills which will enable them to develop competencies in the delivery of medications for individuals of all ages. Content includes: interpretation of medication orders, the calculation of safe medication dosages and the preparation and administration of medications in simulated settings.

The following courses are all required pre-requisites: BIO 3, 4, 101, 131, 132; CHM 3X, 4X; PSY 3; SOC 3 or ANT 4 or ANT 5; MAT 100 or PSY 150; PSY 107 and 108 or TAL 250; Pass the HESI A2 examination.

Credits: 1

Every Fall, Spring and Summer

NUR 290 Clinical Nursing III: Gender Specific Nursing

This course focuses on male and female sexual and reproductive health including nursing care of the pregnant woman and newborn. The SON curriculum threads, a variety of women's reproductive health issues from menarche to menopause and commonly occurring male reproductive health issues will be examined. Clinical experiences which provide students with opportunities to practice are included.

The pre-requisites of NUR 190, 192, 192C, 197, 198 and 199 are required.

Credits: 4.50

Every Fall, Spring and Summer

NUR 292 Clinical Nursing IV: Behavioral Health Nursing

This clinical course focuses on promotion, maintenance, and restoration of behavioral health across the lifespan. Emphasis is placed on therapeutic communication, critical thinking and nursing interventions with clients in acute care and outpatient settings. Behavioral Health Nursing includes the School of Nursing (SON) core concepts, scope and standards of practice, basic mental health concepts, including developmental theories, issues related to client advocacy, therapeutic relationships, psychopharmacology, milieu management, models and theories related to individual, group, and family therapy and clinical disorders from a nursing perspective. Cultural influences are discussed as they relate to communication and behavior. Students are introduced to principles of evidence-based practice as they relate to prevention and treatment of mental illness.

The pre-requisites of NUR 190, 192, 192C, 197, 198 and 199 are required.

Credits: 4.50

Every Fall and Spring

NUR 293 Research in Nursing

This course introduces nursing students to the processes of scientific inquiry and research. The purpose of the course is to develop knowledgeable consumers of nursing research, i.e., practitioners who can (1) critically appraise (a) the scientific merit of nursing research studies and (b) the evidence base for clinical interventions/protocols, and (2) incorporate relevant findings into their practice. Emphasis is placed on developing the ability to analyze, synthesize, and evaluate nursing research within a culturally-diverse and collegial atmosphere using experiential teaching-learning methods.

The pre-requisites of NUR 190, 192, 192C, 197, 198 and 199 are required.

Credits: 3

Every Fall and Spring

NUR 295 Health Assessment in Nursing

This course focuses on performing a health assessment of adults and older adults. This includes gathering data for a general survey and comprehensive health history and developing basic skills required to differentiate between healthy and

unhealthy findings with consideration given to cultural and spiritual influences. Emphasis is placed on integumentary, gastrointestinal, sensory, neurological, cardiovascular, respiratory and musculoskeletal systems. Lab requires students to practice skills and demonstrate the ability to complete a full health assessment.

The pre-requisites of NUR 190, 192, 192C, 197, 198 and 199 are required.

Credits: 3

Every Fall, Spring and Summer

NUR 297 Introduction to Baccalaureate Nursing Education

This course is designed to help the registered nurse student transition to baccalaureate nursing education. Theories of role transition, change and selected nursing theories are discussed. Also, students are introduced to professional development through the integration of various communication skills, and professional portfolio development. The presentation of these concepts builds on the application of students' previous nursing knowledge in order to broaden their professional development in light of a changing health care environment.

Credits: 3

Every Fall

NUR 298 Introduction to Nursing Informatics

The course provides an overview of the use of information and computer technology in the delivery of healthcare/nursing. Theoretical foundations for information management within health care settings are discussed. Students will have the opportunity to learn how nurses can assess, develop and use nursing information systems to work more efficiently, to allocate resources more effectively, and improve patient care. Ethical and social issues in health care informatics are discussed.

Credits: 3

Every Fall

NUR 299 Health Promotion 1: Health Assessment Across the Life Span

This course is designed to enhance the practice of the RN student with the theory and skills necessary to conduct comprehensive health assessments on clients across all ages. Emphasis is placed on the assessment skills; interpretation of data collected; identification of health risks, and on health teaching. Students have the opportunity to learn and practice skills in the college laboratory component of the course along with independent guided learning activities.

Credits: 3

Every Summer

NUR 303 Independent Study

Open only with permission of the Dean. Open to Nursing students to pursue in depth a specific area of study in Nursing with guidance from a faculty member. Permission of the instructor and the Dean required. This course may be taken multiple times.

Credits: 1 to 3

On Occasion

NUR 313 Independent Study and Practice

An opportunity for students who wish to pursue specific clinical areas of study in nursing. Students are guided by a faculty member, and clinical practical hours are determined by faculty. This course has an additional fee. Open to students only with the permission of the instructor and Chair.

The co-requisite of NUR 313L is required

Credits: 3

On Occasion

NUR 314 Independent Study and Practice

For students who wish to pursue specific clinical areas of study in nursing. Students are guided by a faculty member. Clinical practical hours to be determined by faculty. Open to students only with the permission of the instructor and Chair.

The co-requisite of NUR 314L is required.

Credits: 3

On Occasion

NUR 314L Independent Study and Practice LAB

For students who wish to pursue specific clinical areas of study in nursing. Students are guided by a faculty member. Clinical practical hours to be determined by faculty. Open to students only with the permission of the instructor and Chair.

Credits: 0

On Occasion

NUR 390 Clinical Nursing V: Nursing Care of the III Adult I

This clinical course focuses on promotion, maintenance, and restoration of adult health in persons with acute or potential health problems related to cardiovascular, gastrointestinal, integumentary, neurological and musculoskeletal systems. Emphasis is placed on the acute stages of illness in adults and its impact on the family. Using the Nursing Process students are provided the opportunity to plan, implement and evaluate nursing care given to adults in a variety of inpatient and community settings. The SON curriculum threads, the use of technology in providing and documenting nursing care in each setting are discussed. Clinical experiences which provide students with opportunities to practice are included.

The pre-requisites of NUR 290, 290C, 292, 292C, 293, and 295 are required.

Credits: 6

Every Fall and Spring

NUR 392 Clinical Nursing VI: Nursing Care of Children and Their Families

This course focuses on the nursing management of children and their families. Emphasis is on the growth and developmental tasks of children from infancy to adolescence, issues of health, illness, abuse and neglect, developmental disabilities and autistic spectrum disorders. Aspects of care for the

childbearing, childrearing and child-launching family are presented. Clinical offers students the opportunity to learn about the management of children and their families in a variety of traditional and nontraditional settings.

The pre-requisites of NUR 290, 290C, 292, 292C, 293, and 295 are required.

Credits: 4

Every Fall, Spring and Summer

NUR 393 End of Life Nursing Care

This course synthesizes previously learned knowledge and practice as a foundation for introducing students to end of life nursing care. The SON curriculum threads as they related to end of life nursing care are discussed. Emphasis is on quality of life at the end of life, symptom management, communication with dying clients and family members, the dying process, legal and ethical issues and bereavement. This is a writing-intensive course which fulfills LIU Brooklyn's writing-intensive requirement.

The pre-requisites of NUR 290, 290C, 292, 292C, 293, and 295 are required.

Credits: 3

Every Fall and Spring

NUR 395 Leadership, Management and Contemporary Issues in Nursing

This course focuses on the current and historical, socioeconomic and political forces that impact nursing practice. Students explore and discuss emerging roles of the nurse in a complex and unpredictable health care delivery system. The content focuses on organizations, leadership, case management, decision-making, change, measurement of nursing outcomes, communication and healthcare systems. Through a mentorship with a nursing leader, students apply leadership and management theory and participate as members of the healthcare team.

The pre-requisites of NUR 290, 290C, 292, 292C, 293, and 295 are required.

Credits: 4

Every Fall, Spring and Summer

NUR 396 Leadership and Management I

This course introduces the registered nurse student to basic organizational and systems leadership and their relationships to quality care and patient safety. Students learn about theories, concepts, and principles of leading, managing, and delegating; and the various legal issues that challenge nursing leaders and managers. Continuous quality improvement models and various leadership styles along with current literature findings are explored. The importance of effective communication and collaboration strategies in maintaining nursing's role on the healthcare team are emphasized.

Credits: 3

Every Fall and Spring

NUR 397 Health Promotion II: Nursing Management of Complex Health

This course focuses on disease and injury

prevention to multi-ethnic populations across the lifespan, along with issues from beginning to end of life care. Public health principles, health behavior change theory, fundamentals of epidemiology and biostatistics and the relationship of genetics and genomics to health screening, prevention, and patient teaching are discussed. The importance of cultural competence in nursing and health care is examined along with complementary and alternative modalities. Comprehensive literature review and evidenced based nursing outcomes are discussed.

Three credits.

Credits: 3

Every Fall and Spring

NUR 398 Nursing Research for Evidence-Based Nursing Practice

This course introduces the registered nurse student to the research process in order transfer current nursing evidence into practice and improved patient outcomes. The identification and exploration of the relationship of the research process and the development of nursing knowledge are considered. The RN student discusses the research process and how nursing knowledge is developed, researched, evaluated and applied into practice. The RN student also discusses ethical and legal protocols that guide nursing research in order to protect the rights of clients.

Credits: 3

Every Fall and Spring

NUR 490 Clinical Nursing VII: Nursing Care of the Ill Adult II

This course focuses on the synthesis and knowledge required to care for clients with complex multi-system health issues. Using the SON curriculum threads, students provide care to a caseload of clients with complex health issues. The clinical component of this course assists students to develop independence under the direct guidance of selected agency preceptors. Students further cultivate the development of the professional role by synthesizing the concepts of time management, prioritizing, interdisciplinary communication, and delegation skills.

The pre-requisites of NUR 390, 390C, 392, 392C, 393, and 395 are required.

Credits: 6

Every Fall, Spring and Summer

NUR 492 Clinical Nursing VIII: Community Centered Nursing

This course expands concepts of nursing practice and the SON curriculum threads outside traditional health-care settings introduced in Semester One and integrated across the curriculum. It culminates with a "real world" community-centered project. The primary foci are risk assessment, reduction and communication: care of aggregates; health promotion, protection, prevention and education. Students learn to provide care that demonstrates an understanding of

an individual, family and/or community explanatory model for health and illness and the sociopolitical and economic forces that govern health care choices and services. Clinical experiences which provide students with opportunities to practice are included.

The pre-requisites of NUR 390, 390C, 392, 392C, 393, and 395 are required.

Credits: 5

Every Fall, Spring and Summer

NUR 494 Transition to Professional Nursing Practice

This course synthesizes the core content of the curriculum and is the final preparatory course for entry into nursing practice. Professional behaviors necessary for transition from student to professional are examined. Students are prepared for state licensure examination.

The pre-requisites of NUR 390, 390C, 392, 392C, 393, and 395 are required.

Credits: 3

Every Fall and Spring

NUR 495 Leadership and Management II: Budgeting, Finance and Health Care Policy

This course builds on knowledge and skill learned in Leadership and Management I and provides basic knowledge and skills about health care policy, finance and effects on the delivery of nursing care. The registered nurse student will learn how patient care services are organized and financed, and the structure of reimbursement. Regulatory agencies and guidelines that define boundaries of nursing practice are discussed along with how health care policies are developed and changed.

Credits: 4

Every Fall and Spring

NUR 496 Health Promotion III: Health Care Needs of Diverse Populations

This course builds on concepts and principles learned in Health Promotion I and II to focus on promotion health for at-risk populations both locally and globally. Healthy People provides the framework for discussions and the New York City Department of Health and Mental Hygiene Vital Statistics provide the backdrop for planning health promotion strategies. The registered nurse students discuss barriers to health care such as health illiteracy, health disparities, and cultural and economic issues. Students have the opportunity to develop and/or implement plans for promotion of health and disease/injury prevention for selected groups of clients.

Credits: 4

Every Summer

NUR 497 Health Promotion IV: Community Based Nursing Practice

This senior capstone course, introduces the registered nurse students to the concepts and theories related to community and public health nursing. The concept of population-focused nursing and the population as client or unit of care

are emphasized. Health promotion and disease prevention is reinforced. Students build on knowledge and skills learned throughout the program to plan population-focused interventions and collaborate with other healthcare professionals to improve population health. Emergency preparedness needs for communities are assessed and plans developed.

Credits: 5

Every Summer

LIU PHARMACY

LIU Pharmacy (the Arnold & Marie Schwartz College of Pharmacy and Health Sciences) offers an entry-level six-year Doctor of Pharmacy (Pharm.D.) degree. The College also offers graduate curricula leading to a Master of Science degree in several areas of specialization and the Doctor of Philosophy in Pharmaceutics (Ph.D.) degree. Detailed information on the Pharmacy programs is provided in the LIU Pharmacy Bulletin.

For information, please contact the Dean's Office at 718-488-1004, fax 718-488-0628, email us at pharmacy@brooklyn.liu.edu, or visit the website at www.liu.edu/pharmacy. For additional information:

Doctor of Pharmacy Professional Program

Phone: 718-488-1234

Email: pharmacy@brooklyn.liu.edu**Graduate Programs**

Phone: 718-488-1263

Email: pharmacygradprograms@brooklyn.liu.edu**Continuing Professional Education**

Phone: 718-488-1248

Email: pharmce@brooklyn.liu.edu**Alumni Relations**

Phone: 718-488-1016

Email: pharmacy.alumni@brooklyn.liu.edu**Stephen M. Gross**

Dean

Martin E. Brown

Associate Dean

Harold L. Kirschenbaum

Associate Dean for Professional Affairs

Lorraine Cicero

Assistant Dean for Academic & Student Affairs

Anneliese B. Schumacher

Assistant Dean for Administration

Pharmacy

The College offers a six-year curriculum leading to the degree of Doctor of Pharmacy. Students may enter the professional program in Pharmacy in the Fall only.

The pre-professional phase of the program, offered through Richard L. Conolly College, consists of a minimum of four semesters of course work in the humanities and basic sciences. The professional segment of the program consists of six semesters of didactic coursework, extramural introductory pharmacy practice experiences in the third and fourth years and in the summers between the third and fourth year (only for students entering the professional phase Fall 2015 and after) and the fourth and fifth year, and an extramural sixth year of 40 weeks (37 1/2 weeks for students entering the professional phase of the program prior to September 2015) of advanced pharmacy practice experiences that students complete in hospital, community and other pharmacy practice settings. It provides the specialized education necessary to develop expertise in the ever-broadening field of pharmacy and prepares the student for professional licensure examinations.

LIU's Doctor of Pharmacy program is accredited by the Accreditation Council for Pharmacy Education, 135 South LaSalle Street, Suite 4100, Chicago, IL 60603, 312/664-3575; FAX 312/664-4652, web site www.acpe-accredit.org.

A complete description of the pharmacy curriculum is contained in the LIU Pharmacy Bulletin. Students seeking information about admissions requirements should contact the Admissions Office: 718-488-1011.

Degree Requirements

(For students entering the professional-phase (third-year) of the program beginning in Fall 2015 or after)

Upon recommendation of the faculty, and approval by the Board of Trustees, the degree of Doctor of Pharmacy is conferred by Long Island University upon a candidate who has completed the required curriculum, containing a minimum of 218-219 academic credits (depending upon admission status). Matriculants must maintain a cumulative and a professional phase grade-point average of at least 2.33 to remain in good academic standing. In addition, all students of LIU Brooklyn, including pharmacy students, are required to demonstrate computer proficiency as a requirement towards the attainment of a degree. All entering freshmen students are encouraged to take the LIU Brooklyn proficiency examinations in computer literacy before registering. The examinations are administered by the LIU Brooklyn Testing Center and all students must successfully complete these examinations as part of the requirements for a degree. Transfer students are also required to pass these examinations or will

be granted appropriate waivers at the time of the evaluation of their transfer credits.

All students of LIU Brooklyn must satisfy the requirements of the Writing Across the Curriculum Program (WAC). To fulfill the minimum WAC requirements, students must complete, in addition to English 16 and Core Seminar 50, at least one writing-intensive course in their discipline. The writing-intensive course for the Doctor of Pharmacy program is PHM 420 Principles of Health Behavior and Patient-provider Communication.

(For students starting the professional-phase (third year) of the program prior to Fall 2015.)

Upon recommendation of the faculty, and approval by the Board of Trustees, the degree of Doctor of Pharmacy is conferred by LIU upon a candidate who has completed the required curriculum, containing a minimum of 212-214 academic credits (depending upon admission status). Matriculants must maintain a cumulative and a professional phase grade-point average of at least 2.330 to remain in good academic standing. In addition, all students of LIU Brooklyn, including pharmacy students, are required to demonstrate computer proficiency as a requirement towards the attainment of a degree. All entering freshmen students are encouraged to take the LIU Brooklyn proficiency examinations in computer literacy before registering. The examinations are administered by the LIU Brooklyn Testing Center and all students must successfully complete these examinations as part of the requirements for a degree. Transfer students are also required to pass these examinations or will be granted appropriate waivers at the time of the evaluation of their transfer credits.

All students of LIU Brooklyn must satisfy the requirements of the Writing Across the Curriculum Program (WAC). To fulfill the minimum WAC requirements, students must complete, in addition to English 16 and Core Seminar 50, at least one writing-intensive course in their discipline. The writing-intensive course for the Doctor of Pharmacy program is PH 200 Communication Skills in Pharmaceutical Care.

Preprofessional Studies *(For students entering the professional-phase (third-year) of the program beginning in Fall 2015 or after)*

Four Semesters

First Semester (15 credits)

General and Inorganic Chemistry (CHM 3)	4
General Biology (BIO 1)	4
English Composition (ENG 16*)	3
Introduction to Psychology (PSY 3)	3

The University: Discovery and Change (Orientation Seminar) (OS 1)	1
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Second Semester (18 credits)

General and Inorganic Chemistry (CHM 4)	4
General Biology (BIO 2)	4
Idea of the Human (Core Seminar) (COS 50)	3
Calculus I (MTH 40**)	4
Economics (ECO 1 or 2)	3

Third Semester (18 credits)

Organic Chemistry (CHM 121)	4
Physics for Pharmacy (PHY 27)	4
English Literature (ENG 61, 62, 63 or 64***)	3
Philosophy or History (PHI 61 or HIS 1****)	3
Physiology/Anatomy I (lecture and lab)	4
Pharmacy Orientation Seminar (PHM 1)	0

Fourth Semester (18 credits)

Organic Chemistry (CHM 122)	4
Physiology/Anatomy II (lecture and lab)	4
English Literature (ENG 61, 62, 63 or 64***)	3
Philosophy or History (PHI 62 or HIS 2****)	3
Microbiology (lecture and lab)	4

Preprofessional Studies *(For students entering the professional-phase (third-year) prior to Fall 2015)*

First Semester (16 credits)

Chemistry 3 (General Chemistry I)	4
Biology 3 (General Biology I)	4
English 16* (English Composition)	3
Mathematics 30** (Precalculus)	4

Orientation Seminar	1	Introductory Pharmacy	7.5
Second Semester (18 credits)		Practice Experiences	
Chemistry 4 (General Chemistry II)	4	Advanced Pharmacy	37.5
Biology 4 (General Biology II)	4	Practice Experiences	
Core Seminar 50	3	Total credits:	145
Mathematics 40	4		
Speech 3	3		
Third Semester (18 credits)			
Chemistry 121(Organic Chemistry I)	4		
Physics 27 (Physics for Pharmacy)	4		
English 61-64 *** (English Literature)	3		
History 1 or Philosophy 61 ****	3		
Psychology 3 (General Psychology)	3		
Pharmacy Orientation Seminar 1	1		
Fourth Semester (17 credits)			
Chemistry 122 (Organic Chemistry II)	4		
Biology 131 (Human Anatomy)	4		
Economics 1 or 2 (Micro- or Macroeconomics)	3		
English 61-64**** (English Literature)	3		
History 2 or Philosophy 62 ****	3		
Doctor of Pharmacy professional courses (For students entering the professional-phase (third-year) of the program beginning in Fall 2015 or after):			
Core Courses	91.5		
Professional Electives	9		
Introductory Pharmacy	9.5		
Practice Experiences			
Advanced Pharmacy	40		
Practice Experiences			
Total credits:	150		
Doctor of Pharmacy professional courses (For students entering the professional-phase (third-year) prior to Fall 2015)			
Core Courses	91		
Professional Electives	9		

LIU GLOBAL

LIU Global, administered and headquartered at LIU Brooklyn, is a unique global education program combining experiential and service learning along with traditional classroom studies. The program is designed for students who desire an international experience while earning a Bachelor of Arts degree. Students may enter LIU Global as freshmen; they may transfer to LIU Global from other colleges and universities; or they may enroll as study abroad students, as many have done from schools all over the country. LIU students also may study at any of the international locations. The LIU Global Admissions Office can be reached at 718-780-4312.

For information, please contact the Dean's Office at 718-780-4312, fax 718-780-4325, email us at global@liu.edu, or visit the website at www.liu.edu/Global.

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LIU Global maintains learning centers around the globe where students take an active role in designing their own plan of study in close consultation with faculty advisers. LIU Global's overseas learning centers are located in: Hangzhou, China; Heredia, Costa Rica; and Bangalore, India. It also offers programs in Australia, Taiwan, Turkey and South Africa.

LIU Global's Comparative Religion and Culture Program takes students to Turkey, India and Thailand. Serving as LIU Global's "traveling programs," it enables students to engage in intensive study of the teachings, texts and practices of the world's major religions, in particular Islam and Buddhism. Cultural issues, national identity and world citizenship are explored in detail.

LIU Global offers all students, including students from all LIU campuses, the option of semester or yearlong intercultural opportunities, where they can participate in language studies, comparative religion and culture, peace and reconciliation, global health and healing traditions, environmental issues, and area studies — all of which are complemented by independent, field-based projects, internships and service learning.

Students who wish to enter LIU Global as freshmen begin in Costa Rica. This initial orientation and core academic program includes home stays with local families. After completion of the freshman year, students go on for their second year at our center in India, and a third year in China or Australia. Second- and third-year students may participate in the traveling Comparative Religion and Culture Program. All seniors complete an Independent study semester in the fall and the Capstone Semester in the spring at LIU Brooklyn.

Transfer and study abroad students enter the program directly into a course of study at an overseas center. The center where they begin their studies is determined by the number of credits they have when they are admitted to LIU Global.

Essential to the learning model of LIU Global is the introduction to the understanding of global and multicultural issues, with an emphasis on:

- a solid academic foundation that provides students with the tools they need to carry out learning projects throughout the world.
- individualized advising from faculty members who guide students as they pursue independent study and research.
- experiential learning in a supportive environment.
- cross-cultural understanding in a globalizing world.

LIU Global offers students a unique opportunity to develop a comprehensive overview of the history, culture, society and languages of the world, from ancient to modern times, as well as the opportunity to study a specific area of interest in depth.

STUDY ABROAD FOR NON-LIU GLOBAL STUDENTS

Semester or Academic Year Study Abroad

Although LIU Global is primarily a four-year global studies program, students from other U.S. universities are encouraged to study, investigate, explore and learn at any of the LIU Global centers for a semester or academic year. LIU Global offers students from other colleges and universities a full range of advising and support services, focusing on such issues as program selection, academic planning, registration, credit transfer, cultural adjustment, on-site support, and re-entry. Unlike matriculated LIU Global students, students from other institutions may study at any center, in any semester, regardless of what year they are in school. Additionally, non-LIU Global students are only required to take the language and area studies courses offered at each center, and the balance of their coursework is comprised of elective courses, internships and independent study.

COSTA RICA CENTER

The freshman year at the Costa Rica Center provides students with an introduction to experiential education, Latin American studies, and global issues. In addition to attending regularly scheduled seminars and Spanish language classes, students learn how to plan, evaluate, and document their field work with the support and guidance of faculty members based at the Costa Rica Center in Heredia. Students have the opportunity to interact with the local population through homestays, service learning, field trips, internships and field research.

INDIA CENTER

At the India Center, students explore issues involving global development and its impact on one of the most populous countries in the world. India is facing challenges due to rapid modernization, which has transformed its very traditional culture – overnight, the country has become an industrial and economic leader of the 21st century. While living in Bangalore and traveling to neighboring towns and villages, students have the opportunity to see how citizens are facing issues ranging from the ramifications of urban growth to the disparities of economic status.

CHINA CENTER

China has taken a centerstage role in global politics and must strive to recognize its ethnic and religious minorities, to alleviate potentially catastrophic strain on the environment and to develop infrastructures that support and manage access to information as well as other essential resources. At the China Center, students have the opportunity to see how China copes with rapid development and deals with the sharp economic and cultural contrasts between old traditions and new, modern societies.

COMPARATIVE RELIGION & CULTURE

Students whose interests lie in the areas of religion and culture, you alternatively can choose to study in the Comparative Religion and Culture (CRC) Program. This one-of-a-kind experience combines theoretical investigation with extensive exposure to religious and cultural life in India, Taiwan, Thailand and Turkey. Students are

immersed in the teachings, practices and institutional forms of major world religions and will explore cross-cultural issues such as identity, human rights, peace and reconciliation, and of course, global citizenship.

SOUTH AFRICA PROGRAM

The semester-long South Africa program is offered in collaboration with the University of KwaZulu-Natal on their Howard Campus in Durban. The program consists of a combination of classes, internships and independent study. Classes regularly offered are Zulu Language and Culture, Sustainable Development in South Africa, and internships in organizations, including: the Cato Manor Development Corporation, African Centre for the Constructive Resolution of Disputes (ACCORD) and the uShaka Oceanographic Marine Research Center. Students are mentored by university faculty and local experts. They also design independent study programs in areas of education, community health, visual and performing arts and community development. Students may also enroll in two University courses.

AUSTRALIA

The Australia Program gives students the unique opportunity to study environmental issues in a natural laboratory on the other side of the world, where cultural norms and approaches to change are quite different from our own. Students explore the relationships among indigenous peoples, the environment, natural history, and ecological diversity within the rich social and cultural contexts of Australia. While based in Byron Bay, organized field trips will take you to national parks, rainforests, wildlife reserves and the coastlines of New South Wales and Queensland.

NEW YORK CITY CENTER

At the New York City Center, students benefit from the myriad world-class learning resources that New York City has to offer and the comparative and interdisciplinary expertise of LIU Global and LIU faculty members based at LIU Brooklyn. They continue to develop self-awareness as well as a deep appreciation for the culture and customs of others while living, interning and studying in New York, one of the world's most diverse cities. Students participate in on-and off-campus career preparation workshops and events, discerning how best to draw upon their talents and interests to become a leader in their chosen field – one who truly can contribute to the world in a positive and constructive way.

SCHOOL OF CONTINUING STUDIES

The School of Continuing Studies at LIU Brooklyn provides opportunities for adult, non-traditional and professional students to advance their careers and develop in mind, body and spirit. We strive to partner with adult learners who seek access to a superior educational experience.

In addition to its wide array of certificate programs in such career fields as surgical technology, cardiac sonography, information technology and paralegal studies the school offers coursework in ceramics, lifesaving skills training, conducts language classes and workshops and operates Children's Academy.

If you have questions, please contact the office at 718-488-1364, email: scs@liu.edu, or fax: 718-488-1367.

Kibra A. Yohannes

Director

Kibra.Yohannes@liu.edu

Certificate Programs

Surgical Technology Certificate Program

The Surgical Technology Certificate Program is designed to give individuals the knowledge and skills required to function within an operating room environment. Students receive surgical technology training during classroom lectures, practice in a mock surgical lab and get clinical experience in various hospitals' operating rooms.

Surgical technologists are an important part of a surgical team working closely with surgeons, anesthesiologists, registered nurses and other surgical personnel. Surgical technologists help supply the operating room with the instruments, equipment and supplies that will be needed during a surgical procedure.

The program prepares students for the National Board of Surgical Technology and Surgical Assisting (NBSTSA) certification exam.

Successful candidates demonstrate their theoretical and practical knowledge of surgical technology and are granted the designation of Certified Surgical Technologist (CST). The program has been accredited through 2015 by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), through the Accreditation Review Committee on Education in Surgical Technology (ARC-ST).

Every Fall, Spring and Summer

Program Director: Kimberly Awuku, CST

Clinical Coordinator: Zeando Thompson, CST

Admission Requirements

The criteria for entry into the School of Continuing Studies Surgical Technology certificate program meets the requirements of CAAHEPs approved programs. All applicants must provide a completed application form, current resume and proof of an educational level of GED, high school diploma or greater. Upon meeting those requirements, applicants must participate in an in-person interview and receive a positive rating.

Graduation Requirements

A certificate in Surgical Technology is conferred on those students who have completed all of the following: all required courses of the Surgical Technology Certificate Program have been taken; all required courses are completed within two academic years with a grade of "C" or above; all clinical scrubs (as required by ARC/STSA) are attained; all students must take the CST examination at the scheduled time, in a group sitting; the payment of all fees and obligations to LIU and the program have been made and the return, in satisfactory condition, of all signed-out materials.

Central Service Technology Certificate Program

The Central Service Technology Certificate Program is designed to train individuals to receive and process supplies and equipment from

operating rooms and nursing units throughout a hospital. The training includes decontamination, sterilization, and the preparation and assembling of surgical instruments for distribution.

The Central Service Program is accredited by the International Association of Healthcare Central Service Material Management (IAHCSMM).

Every Fall, Spring and Summer

Program Director: Kimberly Awuku, CST

Admission Requirements

The criteria for entry into the School of Continuing Studies Central Service Certificate program meets the requirements of CAAHEPs approved programs. All applicants must provide a completed application form and proof of an educational level of GED, high school diploma or greater.

Vascular Technology Certificate Program

The Vascular Technology Certificate Program is a 12-month, full-time, daytime program that prepares the student for an entry-level position as a vascular technologist. In performing ultrasound examinations of the cerebral, peripheral, and abdominal vessels, vascular technologists provide vital information to physicians toward the diagnosis of disorders affecting circulation.

A vascular technologist (sonographer) employs clinical skills such as pulse palpation; limb pressure measurements; auscultation; description of trophic limb changes' symptom analysis; and the gathering of findings from related testing procedures and historical information such as previous vascular or related interventions and risk factor documentation.

Vascular technologists use performance and dynamic interpretation of computer-generated anatomic imaging and physiologic assessment of blood-flow to aid physicians. Students are responsible for having a physical exam and getting the required immunizations. After completing the required number of vascular examinations, graduates are encouraged to take the American Registry of Diagnostic Medical Sonography (ARDMS) examination to be a Registered Vascular Technologist (RVT).

Vascular Technology is a sub-specialty of Diagnostic Medical Sonography. It is primarily a non-invasive imaging modality with an indirect testing component. It is performed on the surface of the body, with no use of radiant ionizing energy. Therefore, it is safe with no risks to the patient or the sonographer when performed to diagnostic industry standards.

This clinical and technological data provides the physician with vital information toward the diagnosis and treatment of their patients.

The program at the School of Continuing Studies is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), through the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

Every Fall and Spring

Program Director: Richard Dubin, AAS-DMS, RDMS, RVT

Admission Requirements

The criteria for entry into the School of Continuing Studies Vascular Technology Certificate program meet the requirements of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). Applicants must provide a completed application form, proof of an education level of GED, high school or greater, have satisfactorily completed a college level course in biological science, general physics, algebra, and communication with a minimum "C" final grade or better for each prerequisite course. Official transcripts are required. Upon meeting those requirements, applications must participate in an in-person interview and receive a positive rating.

Graduation Requirements

A certificate in Vascular Technology is conferred on those students who have completed all of the following: all required courses of the Vascular Technology Certificate Program have been taken; all required courses are completed within two academic years with a grade of "C" or above; all documents relative to the off-site, clinical experience (VASC 421 thru 424) are submitted with appropriate/complete signage; the payment of all fees and obligations to LIU and the program have been made and the return, in satisfactory condition, of all signed-out materials.

Cardiac Sonography Certificate Program

The Cardiac Sonography Certificate Program is an intensive, one-year, full-time program. It combines classroom didactics, ultrasound lab practicum, and clinical rotations at some of the best cardiovascular laboratories in New York City.

A cardiac sonographer (or echo-cardiographer) employs clinical and technological skill-sets in a dynamic fashion to evaluate the way in which the heart is functioning. The main structures are observed and the condition of each is measured or graded, including the chambers and the chamber walls for dilation, thrombus development, wall thickening, wall motion, pressure gradients, and valvular function. The Sonographer utilizes two and three-dimensional, real-time ultrasonic imaging; color, pulsed-wave and continuous-wave Doppler; and electrocardiogram technologies to provide information that is essential to the cardiologist in making treatment decisions for potentially life-threatening heart diseases.

The sonographer additionally aids the Cardiologist in the performance of more invasive procedures, such as transesophageal echo (TEE), and the evaluation of the heart using minimally invasive contrast agents.

Every Fall

Program Director: Richard Dubin, AAS-DMS, RDMS, RVT

Admission Requirements

The criteria for entry into the School of

Continuing Studies' Cardiac Certificate Program meet the requirements for the American Registry of Diagnostic Sonographers (ARDMS) Pre-requisite 3A. Therefore, a Bachelor's of Arts of Science (B.A. or B.S.) degree is required for admission to our program to ensure that once a student successfully completes our program, they are eligible to take their credential exams. In addition, all applicants must provide a completed application form, proof of a Bachelor's degree of Arts or Science, satisfactorily completed a college level course in anatomy and physiology, general physics, algebra and English communication with a minimum grade of "C" or better for each prerequisite course. Official transcripts are required. Upon meeting those requirements, applications must participate in an in-person interview and receive a positive rating.

Graduation Requirements

A certificate in Cardiac Sonography is conferred on those students who have completed all of the following: all required courses of the Cardiac Sonography Certificate Program have been taken; all required courses are completed within two academic years with a grade of "C" or above; all documents relative to the off-site, clinical experience (DCS 421 thru 424) are submitted with appropriate/complete signage; the payment of all fees and obligations to LIU and the program have been made and the return, in satisfactory condition, of all signed-out materials.

Paralegal Studies Certificate Program

The Paralegal Studies Certificate Program provides students with the practical knowledge of law, preparing graduates with the skill-set that will enable them to carry out high-quality legal work. The program is a 328-hour, non-credit certificate program designed to prepare the student to work at a law firm, a government agency (e.g., law enforcement), or a law department of a corporation, bank, real estate company and insurance company. Through their course of study at LIU Brooklyn, students are provided a strong background in a variety of areas.

The School of Continuing Studies' Paralegal Certificate Program is approved by the American Bar Association (ABA). Legal employers recognize the ABA's role in establishing professional guidelines for paralegal programs. Of more than 1,000 colleges, universities, and law schools that offer paralegal programs, approximately 260 paralegal programs are approved by the ABA.

Every Fall, Spring and Summer

Program Director: Richard Olivieri, BA, JD

Admission Requirements

The criteria for entry into the School of Continuing Studies Paralegal Certificate program meets the requirements for the American Bar Association. All applicants must provide a completed application form and proof of 60 college credits. Transcripts are required. Upon meeting those requirements, applications must

participate in an in-person interview and receive a positive rating.

Graduation Requirements

A certificate in Paralegal Studies is conferred on those students who have completed all 13 required courses in the program and have maintained a cumulative average of "C" or above. Further, as a requirement of graduation, tuition and fees must be paid in full and all obligations to LIU must be satisfied.

Building Construction Certificate Program

The Building Construction Certificate Program at the School of Continuing Studies is designed to attract individuals seeking an understanding of the building construction industry, either as a perspective apartment dweller or homeowner looking to perform renovations or as an entry-level employee looking to begin a career in the industry.

The program is specially designed for those who need the building construction entry-level and small business start-up skills.

On occasion

Information Technology Program

The Information Technology (IT) program is a cutting-edge selection of courses led by skilled experts in the field, for those who wish to jump start their career. The program is suitable for all levels: beginners, intermediate and advanced. For the beginners, courses include: Microsoft Office 2010™, Introduction to Microsoft Windows 7™, Introduction to Web Design and Development. Offerings for those with intermediate skill levels are: Web Development (ASP.NET), A+PC Network Technician and Network +; and for advanced students: CCNA™ and Security+, Microsoft Certified Systems Engineer™ Certification Prep (MCSE Core) and Programming with Visual C# for ASP.NET.

On occasion

Professional Continuing Education Units (CEUS)

Classes offering continuing education units are designed to provide education requirements for licensed or certified professionals. LIU is a provider of CEUS in accordance with the respective accreditation and state agencies. Courses run on occasion.

Accounting and Taxation Continuing Professional Education (CPE)

In partnership the LI Brooklyn Department of Accounting and Taxation, the School of Continuing Studies provides CPE credit that is required for Certified Public Accountants to maintain their professional competence and provide a quality of professional services. CPAs are responsible for complying with all applicable CPE requirements, rules and regulations of state boards of accountancy, as well as those of membership associations and other professional organizations.

LIU is registered with the National Association of the State Boards of Accountancy (NASBA) as a

sponsor of continuing professional education on the national Registry of CPE sponsors. State boards of accountancy have the final authority on the acceptance of individual courses for CPE credits.

NASBA CPE Sponsor Registry #108438

NYS Sponsor license #002180

LIU Brooklyn Finance, Law, Accounting and Taxation Department is a participating institution with the Association of Certified Fraud Examiners (ACFE). Website:

<http://www.ACFE.com/Participating-Institutions> (search for Long Island University or LIU Brooklyn)

Workshops

Our workshops are designed to emphasize interaction and exchange of information among individuals who are seeking to learn a new skill or enhance their knowledge base. They range from violence prevention in school settings to fire safety measures for facilities. Courses run each semester.

Open Enrollment Programs

Children's Academy

Children's Academy at LIU Brooklyn creates an immersive, educational experience for youngsters between the ages of 3-12. Children's Academy is a year round program for children with a focus on Academics, Athletics and Creativity.

During the summer months, Children's Academy operates Summer Camp, where youngsters from across Brooklyn participate in courses ranging from robotics, movie making, fashion design, comic book creation, language immersion, ballet and or movement. LIU Brooklyn faculty is employed to lead class instruction and graduate and undergraduate students are employed to serve as camp counselors.

Children's Academy, Summer Camp is fully licensed by the New York City Department of Health.

During the Fall and Spring semesters, Children's Academy offers Saturday classes specifically designed for children in the areas of swimming, robotics, fashion design and languages. *Every Fall, Spring and Summer*

Language and Creative Arts

Foreign Language

To learn a new language or improve your current skills, we offer classes for all levels. Whether you are in business, construction, legal or any of the health professions foreign language ability will make you competitive in New York City.

On Occasion

Writing and Speech

Communicating clearly and confidently is fundamental to both your personal and professional life. The classes offered in Writing &

Speech will provide you with the skills and practice to improve your professional writing, academic writing and public speaking.

On Occassion

ESL

English as a Second Language at SCS is for those seeking a comprehensive and practical knowledge of the English Language. Classes will focus on Reading, Writing, Grammar, Listening, and Conversation.

On Occassion

Ceramics

Enjoy crafting unique pottery in a downtown Brooklyn oasis. Some classes will take place in our relaxed and welcoming ceramic studio and other classes on the west balcony overlooking the City.

Every Fall, Spring and Summer

How to Apply

Our applicants come from unique backgrounds and diverse experiences and SCS values these qualifications. We carefully weigh all of the pieces of your application to make a determination in your acceptance. Where an interview is required, it is often the determining factor in your acceptance for our more competitive programs.

To apply to non-certificate programs

Please fill out the application form and submit.

To apply to certificate programs

Requirements for Surgical Technology

The criteria for entry into SCSs Surgical Technology Certificate Program meets the requirements of CAAHEPs approved programs.

Applicants must provide:

- a completed application form
- proof of an educational level of GED, high school or greater

Upon meeting the requirements above, applicants must participate in an in-person interview and receive a positive rating.

Requirements for Vascular Technology

The criteria for entry into SCSs Vascular Technology Certificate Program meets the requirements for the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS).

Applicants must provide:

- a completed application form
- proof of an educational level of GED, high school or greater
- have satisfactorily completed a college level course in biological science, general physics, algebra, and communication. Transcripts are required

Upon meeting the requirements above, applicants must participate in an in-person interview and receive a positive rating.

Requirements for Paralegal Studies

The criteria for entry into SCSs Paralegal Studies Certificate Program meets the requirements for the American Bar Association.

Applicants must provide:

- a completed application form
- proof of an 60 college credits, transcripts are required

Upon meeting the requirements above, applicants must participate in an in-person interview and receive a positive rating.

Request Materials

To contact us or for more information, please choose:

Via Email:

scsinfo@brooklyn.liu.edu

Via Telephone:

718-488-1364/1366

In Person:

9 Hanover Place, 2nd Floor,
Brooklyn, New York
(between Fulton Mall & Livingston Street)

Via Mail:

School of Continuing Studies

LIU Brooklyn
1 University Plaza
Brooklyn, NY 11201-5372

Via Website:

www.liu.edu/brooklyn/scs

English Language Institute

Stanley J. Zelinski III, Associate Dean, ESL

Phone: 718-488-1323

Fax: 718-246-6313

The English Language Institute provides English language instruction to foreign-born students and members of the non-English-speaking community. It consists of the Intensive Program in English and the Weekend Program. The Intensive Program in English is a full-time, noncredit college program that offers English language instruction to foreign students who are matriculated at LIU Brooklyn but lack the minimum competency in English. The Weekend Program provides both native and non-native speakers of English with low-cost instruction in basic writing, vocabulary expansion, accent reduction, and TOEFL preparation.

BLENDED AND ONLINE LEARNING PROGRAMS AT LIU

Technology-enhanced, blended and online learning are an important part of fulfilling LIU's mission of access and excellence in higher education. These courses and programs are delivered through the University's Blackboard Learning Management System, which enables students to complete their online coursework at any time of day and at any place in the world there is an Internet connection. LIU's blended learning programs feature both face-to-face and online components, reducing the amount of time students need to be physically present on campus, while still reaping the benefits of meeting in person with professors, fellow students, and other professionals.

The University currently offers the following degree and certificate programs in the blended or online learning format:

LIU Brooklyn

Advanced Certificate, Educational Leadership
B.S. Nursing (R.N. to B.S. track)
M.S. Adult Nurse Practitioner
M.S. Computer Science
M.S. Family Nurse Practitioner
M.S. and Advanced Certificate, Human Resource Management
M.S. Nurse Educator

LIU Post

Advanced Certificate, Archives & Records Management*
Advanced Certificate, Mobile GIS Applications Development*
Certificate, Health Information Management*
M.S. Accountancy
M.S. Adolescence Education (Pedagogy Only)
M.S. Corporate Learning and Development
M.S. Educational Technology
M.S. Environmental Sustainability
M.S. Library & Information Science/School Library Media
M.S. and Advanced Certificate, Nursing Education
M.S. Taxation
M.A. TESOL
B.S. Degree Completion Program for Adults

LIU Hudson

Advanced Certificate, Bilingual Extension*
Advanced Certificate, Bilingual Special Education*
Advanced Certificate, Cyber Security for Business Professionals*
Advanced Certificate, TESOL: Special Education*

LIU Riverhead

M.S. and Advanced Certificate, Homeland Security Management*
Advanced Certificate, Cyber Security Policy*

Our programs are accredited by the Middle States Commission on Higher Education and are registered with the New York State Education Department. For additional program information, please consult the appropriate academic department pages of the campus bulletin.

**Denotes a fully online program.*

APPROVED PROGRAMS - LIU BROOKLYN

New York State Education Department Inventory of Registered Programs

Enrollment in other than registered or otherwise approved programs may jeopardize a student's eligibility for certain student aid awards.

Richard L. Conolly College of Liberal Arts and Sciences

Major	Hegis Code	Degree
Biology	0401	BS, MS
Biochemistry	0414	BS
Chemistry	1905	BS, MS
Communication Sciences and Disorders	1220	BS
Communication Sciences and Disorders / Speech-Language Pathology	1220	BS/MS
Speech-Language Pathology (Bilingual Extension)	1220	MS
Computer Art	1009	BFA
Creative Writing	1507	MFA
Cytotechnology	1223	BS
Dance	1008	BFA, BS
Economics	2204	BA
English	1501	BA, MA
History	2205	BA
Humanities	5649	AA
Humanities	4903	BA
Interdisciplinary Major	4901	BA, BS
Journalism	0602	BA
Mathematics	1701	BS
Media Arts	0601	BA
Media Arts	1009	MA
Media Arts	0605	MFA
Medical Technology	1223	BS
Music – Applied Music	1004	BA
Music (Jazz Studies)	1004	BFA
Music Education in Urban Schools	0832	BS
Modern Languages – French, Spanish	1101	BA
Nuclear Medicine Technology	1299	BS
Philosophy	1509	BA
Political Science	2207	BA, MA

Psychology	2001	BA, MA
Clinical Psychology	2003	Ph.D.
Sociology-Anthropology	2208	BA
Speech	1506	BA
Studio Art	1002	BFA
Visual Arts	1099	BA
Teacher of Visual Arts in Urban Schools	0831	BFA
Social Science	2201	MS
Social Science	4903	BA, BS
Social Science	5622	AA
United Nations	2210	Adv. Crt.
Urban Studies	2214	MA
Writing & Producing for Television	0605	MFA

School of Business, Public Administration and Information Sciences

Major	Hegis Code	Degree
Accounting	0502	BS, BS/MS, MS, MBA
Business Administration	5004	AAS
Business Administration	0506	MBA
Business Finance	0504	BS
Business Management	0506	BS
Computer Science	0701	BS, MS
Entrepreneurship	0501	BS
Gerontology	2104	Adv. Crt.
Human Resources Management	0515	MS, Adv. Crt.
Health Administration	1202	MPA
Marketing	0509	BS
Not-for-Profit Management	2102	Adv. Crt.
Public Administration	2102	MPA
Taxation	0502.1	MS
Technology Management	0507	BS
United Nations / Public Administration	2210 / 2102	Adv. Crt/MPA

School of Education

Major	Hegis Code	Degree
Adolescence Urban Education: Biology	0401	BS
Adolescence Urban Education: Biology 7-12: 1st Initial	0401.01	MSEd
Adolescence Urban Education: Biology 7-12: 2nd Initial	0401.01	MSEd
Adolescence Urban Education: Biology 7-12: Non-certification	0401.01	MSEd
Adolescence Urban Education: Chemistry	1905.01	BS
Adolescence Urban Education: Chemistry 7-12: 1st Initial	1905.01	MSEd
Adolescence Urban Education: Chemistry 7-12: 2nd Initial	1905.01	MSEd
Adolescence Urban Education: Chemistry 7-12: Non-certification	1905.01	MSEd
Adolescence Urban Education: English	1501.01	BA
Adolescence Urban Education: English 7-12: 1st Initial	1501.01	MSEd
Adolescence Urban Education: English 7-12: 2nd Initial	1501.01	MSEd
Adolescence Urban Education: English 7-12: Non-certification	1501.01	MSEd
Adolescence Urban Education: Mathematics	1701.01	BS
Adolescence Urban Education: Math 7-12: 1st Initial	1701.01	MSEd
Adolescence Urban Education: Math 7-12: 2nd Initial	1701.01	MSEd
Adolescence Urban Education: Math 7-12: Non-certification	1701.01	MSEd
Adolescence Urban Education: Social Studies	2201.01	BA
Adolescence Urban Education: Social Studies 7-12: 1st Initial	2201.01	MSEd

Adolescence Urban Education: Social Studies 7-12: 2nd Initial	2201.01	MSEd
Adolescence Urban Education: Social Studies 7-12: Non-certification	2201.01	MSEd
Adolescence Urban Education: Spanish	1105.01	BA
Middle Childhood & Adolescence Urban Ed: Biology	0401.01	BS
Middle Childhood & Adolescence Urban Ed: Chemistry	1905.01	BS
Middle Childhood & Adolescence Urban Ed: English	1501.01	BA
Middle Childhood & Adolescence Urban Ed: Mathematics	1701	BS
Middle Childhood & Adolescence Urban Ed: Social Studies	2201.01	BS
Childhood Urban Education	0802	BS
Childhood Urban Education: 1st Initial	00802	MSEd
Childhood Urban Education: 2nd Initial	0802	MSEd
Childhood Urban Education: Non-certification	0802	MSEd
Childhood/Early Childhood Urban Education: 1st Initial	0802	MSEd
Childhood/Early Childhood Urban Education: 2nd Initial	0802	MSEd
Childhood/Early Childhood Urban Education: Non-certification	0802	MSEd
Early Childhood Urban Education: 1st Initial, 2nd Initial	0802.00	MSEd
Early Childhood Urban Education: Non-certification	0802.00	MSEd
Early Childhood Urban Education	0823	Adv. Cr.
Teacher of Physical Education in Urban Schools	0835	BS

Teacher of Visual Arts in Urban Schools	0831	BFA
Music Education in Urban Schools	0832	BS
Teaching Urban Adolescents with Disabilities: 1st Initial	0808	MSEd
Teaching Urban Adolescents with Disabilities: 2nd Initial	0808	MSEd
Teaching Urban Adolescents with Disabilities: Non-certification	0808	MSEd
Teaching Urban Children with Disabilities: 1st Initial	0808	MSEd
Teaching Urban Children with Disabilities: 2nd Initial	0808	MSEd
Teaching Urban Children with Disabilities: Non-certification	0808	MSEd
TESOL: 1st Initial	1508	MSEd
TESOL: 2nd Initial	1508	MSEd
TESOL: Non-certification	1508	MSEd
Bilingual Education	0899	Adv. Cr.
School Counselor	0826.01	MSEd
School Counselor	0826	Adv. Cr.
Bilingual School Counselor	0826.01	MSEd
Bilingual School Counseling	0899	Adv. Cr.
Mental Health Counseling	2104.1	MS, Adv. Cr.
School Psychologist	0826.02	MSEd
Educational Leadership	0828	Adv. Cr.

School of Health Professions

Major	Hegis Code	Degree
Athletic Training	1299.3	BS/MS
Diagnostic Medical Sonography	1225	BS
Exercise Science	1201	MS
Health Sciences	1201	BS
Health Sciences / Public Health	1201 / 1214	BS/MPH
Occupational Therapy	1208	BS/MS

Physical Therapy	1212	DPT
Physician Assistant Studies	1299.1	MS
Public Health	1214	MPH
Respiratory Care	1299	BS
Sports Science	1299.3	BS
Social Work	2104	BA, MSW

School of Nursing

Major	Hegis Code	Degree
Nursing	1203	BS
Adult Nurse Practitioner	1203.1	BS/MS, MS
Adult Nurse Practitioner	1203.12	Adv. Cr.
Family Nurse Practitioner	1203.1	MS
Family Nurse Practitioner	1203.12	Adv. Cr.
Executive Program for Nursing and Health Care Management	1203.1	BS/MS, MS
Nurse Educator	1203.1	MS
Education for Nurses	1203.12	Adv. Cr.

LIU Pharmacy

Major	Hegis Code	Degree
Pharmacology/ Toxicology	0409	MS
Pharmaceutics	1211	MS, Ph.D.
Drug Regulatory Affairs	1211	MS
Pharmacy	1211	PharmD

LIU Global

Major	Hegis Code	Degree
Global Studies	2210	BA

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