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2020-2021 UNDERGRADUATE CATALOG

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Welcome from the President

Dear Student,

Here at Sacred Heart University, we have much to celebrate and a great deal for which to be thankful. We are continuing to grow and expand—both academically with the addition of new programs and courses and physically as we build new residence halls and continue with renovations on West Campus.

I would be remiss if I did not recognize that this year will be like none we have experienced in the University's almost 60-year history. But I want to assure you that even as we move to hybrid classes and interact from a social distance on campus, we are committed to providing the same challenging and vibrant educational opportunities that we always have—while doing our best to protect the health and safety of the SHU community.

We have six colleges offering challenging academic programs across a wide variety of disciplines. Sacred Heart is known for its award-winning faculty, rigorous academics and small classes as well as its leadership in both liberal arts and the Catholic intellectual traditions. We provide a dynamic, experience-rich education, and our hope is that, after the time you spend with us, you will leave Sacred Heart prepared to take your place in a diverse and challenging world.

This catalog will serve as a guide as you explore the many opportunities and experiences that Sacred Heart has to offer. Our Catholic identity informs our spirit of inclusion, creativity and care. You will also find that our faculty, staff and upperclassmen will be ready and willing to help you along the way. When you come to Sacred Heart, you join a special community that inspires life-changing growth and provides a sense of belonging and a place to call home.

I welcome you to Sacred Heart and look forward to meeting you. Together, we share confidence in and excitement for what the future holds. I urge you to ask questions, get involved in activities and take full advantage of all the opportunities that come with a Sacred Heart education.

Sincerely,

John J. Petillo, Ph.D.

President

University Telephone Numbers

All University departments, faculty, and staff contact information is available on the University website:

[Employee Directory](#)

[Department Directory](#)

Academic Calendars

All undergraduate and graduate calendars are available to view on the Sacred Heart University website under “Academic Calendars” (<https://www.sacredheart.edu/offices--departments-directory/registrar/academic-calendars/>).

Please note deadlines for add/drop and withdrawals. These deadlines vary for different programs. See the Course Withdrawal Policy on the Registrar’s webpage.

Statement of University Policies

While every effort is made to ensure the accuracy of information provided in this catalog, accuracy cannot be guaranteed. Sacred Heart University reserves the right to make changes at any time without prior notice. The University provides the information in this catalog solely for the convenience of the reader, who may not rely upon it as a promise or legal obligation. Sacred Heart University expressly disclaims any liability based on the contents.

The University is committed to the concept of equal educational opportunities for all. Individuals are considered for admission to student status, and its services, facilities, programs, and activities are administered in a nondiscriminatory manner as required by law without regard to race, religion, color, sex, sexual orientation, national or ethnic origin, gender, age, or handicap.

The institution recognizes the Family Education Rights and Privacy Act of 1974, which defines the rights and protects the privacy of students with regard to their educational records.

The University is an Equal Opportunity Employer in accordance with its Affirmative Action Policy. It does not discriminate as required by law in its employment practices on the basis of race, color, religious creed, age, gender, marital status, national origin, disability, sexual orientation, or veteran status.

Sacred Heart University is committed to the maintenance of a community environment where respect for the dignity and worth of each individual is demonstrated and where diversity and the free exchange of ideas can flourish. The maintenance of that community requires its members to avoid behavior that creates division, to promote behavior that enhances cooperation among groups, and to encourage the development of each person as a unique individual.

The University does not condone racism, sexism, sexual harassment, intolerance, or any other acts of discrimination. The University is authorized under federal law to enroll nonimmigrant alien students.

Sacred Heart University's procedures for claiming unlawful discrimination or harassment are set as an appendix to this catalog and are also on the University's website. The executive director for Human Resources, Julia Nofri (203-365-4837), serves as the coordinator for Title VI, Section 504 of the Rehabilitation Act and the Age Discrimination Act. Title IX complaints should be reported to the Title IX Coordinator, Leonora Campbell (203-396-8386). Students claiming discrimination for handicap or disability may also complain to the director of Special Services at the University's Jandrisevits Learning Center.

Sacred Heart University is committed to addressing student concerns related to both academic and administrative issues. Students should first address complaints to the appropriate University official to obtain resolution of disputes and complaints. In compliance with C.R.F. Section 668.43(b), if a student cannot resolve an issue within the University, she/he can bring the issue to the New England Association of Schools and Colleges (NEASC). NEASC's contact information is:

3 Burlington Woods Drive, STE 100
Burlington, MA 01803-4514
Phone: 781-425-7700
Toll Free: 855-886-3272
www.NEASC.org

or

Office of Higher Education
61 Woodland Street
Hartford, CT 06105-2326
Phone: 860-842-0229
www.ctohe.org/studentcomplaints.shtml

The University

Accreditation and Memberships

Sacred Heart University is accredited by the New England Commission of Higher Education (formerly the Commission on Institutions of Higher Education of the New England Association of Schools and Colleges, Inc.)

Accreditation of an institution of higher education by the Commission indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer review process. An accredited college or university is one which has available the necessary resources to achieve its stated purposes through appropriate educational programs, is substantially doing so, and gives reasonable evidence that it will continue to do so in the foreseeable future. Institutional integrity is also addressed through accreditation.

In addition, several University programs have received either specialized accreditation or approval by the state of Connecticut or have been granted specialized accreditation by national professional organizations.

The Farrington College of Education is nationally accredited by Council for the Accreditation of Educator Preparation (CAEP), the national accrediting body for educator preparation programs. All educator programs of the college are approved by the State of Connecticut to prepare candidates for educator certifications.

The baccalaureate degree program in nursing, the master's degree program in nursing, and the Doctor of Nursing Practice program are accredited by the Commission on Collegiate Nursing Education, 655 K Street, NW, Suite 750, Washington, DC 20001, 202-887-6791, (<http://www.ccneaccreditation.org>)

The Master of Science in Occupational Therapy is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE).

The Master of Athletic Training Education Program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

The master's degree (M.S.) program in Speech-Language Pathology at Sacred Heart University is accredited by the Connecticut Office of Higher Education, and by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association (ASHA), 2200 Research Boulevard, #310, Rockville, MD 20850, 800 498 2071 or 301 296 5700. Our program for teacher endorsement has been approved by the Connecticut State Department of Education, making graduates eligible to serve as SLPs in Connecticut public schools.

The Master of Physician Assistant Studies has received Connecticut Office of Higher Education (CTOHE) state licensure, and the ARC-PA has granted Accreditation-Provisional status to the Sacred Heart University Physician Assistant Program sponsored by Sacred Heart University. Accreditation-Provisional is an accreditation status granted when the plans and resource allocation, if fully implemented as planned, of a proposed program that has not yet enrolled students appear to demonstrate the program's ability to meet the ARC-PA Standards or when a program holding Accreditation-Provisional status appears to

demonstrate continued progress in complying with the Standards as it prepares for the graduation of the first class (cohort) of students. Accreditation-Provisional does not ensure any subsequent accreditation status. It is limited to no more than five years from matriculation of the first class.

The Doctor of Physical Therapy is accredited by the Commission on Accreditation of PT Education (CAPTE).

The Bachelor of Arts or Science in Social Work program is accredited by the Council on Social Work Education. The Masters in Social Work is accredited by the Council on Social Work Education.

The Physical Therapy Orthopaedic Residency Program is accredited by the American Board of Physical Therapy Residency and Fellowship Education (ABPTRFE)

The Master of Public Health Program is a Council on Education for Public Health (CEPH) Applicant.

The Jack Welch College of Business & Technology is accredited by the Association to Advance Collegiate Schools of Business.

The Associate of Science in Nursing is accredited by the Accreditation Commission for Education in Nursing.

The Associate of Science in Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The program's current length of accreditation is the maximum eight (8) years. JRCERT contact information is: 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, (312) 704-5300, mail@jrcert.org, www.jrcert.org.

The University is approved by the Connecticut State Department of Education for the education of veterans and their eligible dependents.

MEMBERSHIPS

AACSB International

Academy of Physician Assistants (ConnAPA) Connecticut

Accreditation Council for Occupational Therapy Education (ACOTE)

Accreditation Review Commission on Education for the Physician Assistant (ARC-PA)

Alpha Sigma Lambda Honor Society (ASL)

American Academy of Physician Assistants (AAPA)

American Accounting Association

American Association of Colleges of Nursing (AACN)

American Association of Collegiate Registrars and Admissions Officers (AACRAO)

American Association of Colleges for Teacher Education (AACTE)

American Association of Colleges for Teacher Education – CT (AACTE-CT)

American Association of Collegiate Schools and Programs

American Society Brewing Chemists

American Chamber of Commerce in Luxembourg	Association of Departments of English
American College Counseling Association (ACCA)	Association of Governing Boards
American College Health Association (ACHA)	Association of Graduate Programs in Ministry
American College of Healthcare Executives Copyright (ACHE)	Association for Institutional Research (AIR)
American College Personnel Association (ACPA)	Association of International Educators
American Council of Academic Physical Therapy (ACAPT)	Association of Professors/Researchers in Religious Education
American Council on Education (ACE)	Association of Schools of Allied Health Professions
American Counseling Association (ACA)	Association of Student Judicial Affairs (ASJA)
American Educational Research Association	Association of Title IX Administrators (ATIXA)
American Football Coaches Association (AFCA)	Association of University Programs in Health Administration (ALPHA)
American Management Association (AMA)	Berkshire County Counselors Association (BCCA)
American Mathematical Society	Beta Gamma Sigma
American Physical Therapy Association (APTA)	Brewers Association
American Speech-Language-Hearing Association	Bridgeport Higher Education Alliance (BHEA)
American Psychological Association	Bridgeport Regional Business Council (BRBC)
American Society of Composers, Authors and Publishers (ASCAP)	Business Council of Fairfield County
American Society of Engineering Education (ASEE)	Canadian Academic Accounting Association
Association for Community Organization and Social Administration	Carnegie Project on the Education Doctorate (CPED)
Association for Computing Machinery	Catholic Campus Ministry Association
Association for Computing Machinery (ACM), student chapter	Catholic Library Association
Association for North East Business Deans	Campus Compact
Association for Specialists in Group Work (ASGW)	Centesimus Annus Pro Pontifice (CAPP-USA)
Association for Student Affairs at Catholic Colleges and Universities (ASACCU)	Chartered Financial Analyst (CFA)
Association of American Colleges and Universities (AACU)	Chi Sigma Iota (CSI)
Association of Catholic Colleges and Universities (ACCU)	Chief Administrators of Catholic Education
Association of College and University Housing Officers (ACUHO)	Club Management Association of America (CMAA)
Association of College and University Unions (ACUI)	College and University Professional Association for Human Resources (CUPA-HR)
Association of College Administration Professionals (ACAP)	College Art Association
Association of College and University Housing Officers International	College Athletic Business Management Association (CABMA)
Association of College Honor Societies	College Athletic Trainers' Society (CATS)
Association of College Unions International (ACCUI)	College Board
Association of Collegiate Business Schools and Programs	College Consortium for International Studies
Association of Conferences and Events Directors (ACED)	College Entrance Examination Board and Scholarship Service Collegium

Colonial Athletic Association (CAA)	Council of Connecticut Library Directors
Commission on Accreditation of Athletic Training Education Programs (CAATE)	Council of Graduate Schools
Commission on English Languages Program Accreditation (CEA)	Council for Higher Education
Community-Campus Partnerships for Health	Council of Independent Colleges
Commission on Collegiate Nursing Education (CCNE)	Council on Undergraduate Research (CUR)
Connecticut Academy of Physician Assistants (ConnAPA)	Council on Social Work Education
Connecticut Association of Colleges and Universities for Teacher Education	East End Counselors Association (EECA)
Connecticut Association of Latino and Hispanic Education (CALAHE)	Eastern Association of Colleges and Employers (EACE)
Connecticut Association of Professional Financial Aid Administrators (CAPFAA)	Eastern Association of Colleges and University Business Officers (EACUBO)
Connecticut Brewers Guild, Inc	Eastern Association of Student Financial Aid Administrators (EASFAA)
Connecticut Bursar Group	Eastern Athletic Trainers' Association (EATA)
Connecticut Campus Compact Steering Committee	Eastern College Athletic Conference (ECAC)
Connecticut Career Counseling Association (CCCA)	Eastern Intercollegiate Volleyball Association (EIVA)
Connecticut Colleges Purchasing Group (CCPG)	Educational and Institutional Cooperative Purchasing (E&I)
Connecticut Conference of Independent Colleges (CCIC)	Electrical and Computer Engineering Department Heads Association (ECEDHA)
Connecticut Cooperative Education and Internship Association	Entrepreneurship Institute
Connecticut Counseling Association (CCA)	European American Chamber of Commerce
Connecticut Distance Learning Consortium (CTDLC)	European Council of International Schools (ECIS)
Connecticut League for Nursing (CLN)	The Executive DBA Council (EDBAC)
Connecticut School Counselor Association (CSCA)	Fairfield Chamber of Commerce
Connecticut Nurses Association (CNA)	Fairfield County Business Council
Connecticut Library Consortium	Fairfield County Library Administrators Group (FLAG)
Connecticut Softball Collegiate/Scholastic Hall of Fame (CSCSHF)	Fairfield County Postal Customer Council (FCPCC)
Connecticut Speech Language Hearing Association	Financial Planning Association (FPA)
Connecticut Teachers of English to Speakers of Other Languages (CONNTESOL)	Forum for World Affairs
Connecticut Technology Council (CTC)	Forum on Education Abroad
Council for Accelerated Programs (CAP)	Global Association of Risk Managers (GARP)
Council for Adult and Experiential Learning (CAEL)	Greater Bridgeport Latino Network (GBLN)
Council of Academic Programs in Communication Sciences and Disorders (CAPCSD)	Greater New Haven Chamber of Commerce
Council for the Advancement and Support of Education (CASE)	Greater Norwalk Chamber of Commerce
Council for the Accreditation of Educator Preparation (CAEP)	Greenwich Chamber of Commerce
	Healthcare Information and Management Systems Society (HIMSS)
	Hispanic Advisory Council of Greater Stamford (HACGS)

Institute of Electrical and Electronics Engineers (IEEE)	National Association of College Basketball Coaches (NABC)
Institute for European Studies/Institute for Asian Studies	National Association of College and University Business Officers (NACUBO)
Institute of International Education (IIE)	National Association of Collegiate Directors of Athletics (NACDA)
Institute of Management Accountants (IMA)	National Association of Collegiate Marketing Administrators (NACMA)
Institute of Management Consultants USA	National Association of Deans and Directors of Social Work
Intercollegiate Association of Marriage and Family Therapists	National Association for Developmental Education (NADE)
Intercollegiate Bowling Association	National Association of Educational Buyers New England Region (NAEB NE)
Intercollegiate Tennis Association (ITA)	National Association of Educational Procurement (NAEP)
International Association of Schools of Social Work	National Association of Graduate Admissions Professionals (NAGAP)
International Consortium of the National Council of Teachers of English	National Association of Independent Colleges and Universities (NAICU)
International Council on Hotel, Restaurant, and Institutional Education (ICHRIE)	National Association for Lay Ministry (NALM)
Kiwanis Club of Bridgeport	National Association of Pastoral Musicians (NPM)
Lilly Fellows Program (LFP)	National Association of Schools of Art and Design (NASAD)
Lilly Network of Church-Related Colleges and Universities	National Association of Social Workers (NASW)
Luxembourg American Chamber of Commerce (LACC)	National Association of State Administrators & Supervisors of Private Schools (NASASPS)
Massachusetts Higher Education Consortium (MHEC)	National Association of Student Financial Aid Administrators (NASFAA)
Massachusetts School Counselor Association (MASCA)	National Association of Student Personnel Administrators (NASPA)
Master Brewers Association	National Athletic Trainers' Association (NATA)
Mathematics Association of America	National Athletic Trainers' Association Board of Certification (NATABOC)
Metro Atlantic Athletic Conference (MAAC)	National Board for Certified Counselors (NBCC)
Metro New York College Placement Officers Association (MNYCPOA)	National Career Development Association (NCDA)
Modern Language Association (MLA)	National Catholic College Admissions Association
Mu Delta Chapter of Sigma Theta Tau International Nursing Society	National Catholic Educational Association (NCEA)
NAFSA: Association of International Educators	National Catholic Student Coalition
National Academic Advising Association (NACADA)	National College Honors Council
National Association of Athletics Compliance Coordinators (NAAC)	National College of Sports Medicine
National Association of Campus Activities (NACA)	National Collegiate Athletic Association (NCAA)
National Association of Church Personnel Administrators (NACPA)	National Collegiate Licensing Association (NCLA)
National Association for College Admission Counseling (NACAC)	National Conference of Catechetical Leadership (NCCL)
National Association of Colleges and Employers (NACE)	National Council for State Authorization Reciprocity Agreements (NC-SARA)
National Association of College Athletic Directors	National Fastpitch Coaches Association (NFCA)
National Association of College Auxiliary Services (NACAS)	
National Association of College and University Attorneys (NACUA)	

National Intramural and Recreational Sports Association (NIRSA)

National League for Nursing (NLN)

National Organization of Nurse Practitioner Faculties (NONPF)

National Orientation Directors Association (NODA)

National Society of Experiential Education (NSEE)

National Strength and Conditioning Association (NSCA)

New England Affiliate of College and University Residence Halls (NEACURH)

New England Association of College Admissions Counseling (NEACAC)

New England Association of College and University Housing Officers (NEACUHO)

New England Association of Collegiate Registrars and Admissions Officers (NEACRAO)

New England Commission of Higher Education (NECHE)

New England Consortium of Clinical Educators (NECCE)

New England Intercollegiate Softball Coaches Association (NEISCA)

New England Occupational Therapy Education Council (NEOTEC)

New England Resource Center for Higher Education (NERCHE)

New England Transfer Association (NETA)

New Haven Chamber of Commerce

New Jersey Association for College Admissions Counseling (NJACAC)

New York State Association of College Admissions Counseling (NYSACAC)

New York State Restaurant Association (NYSRA),

Northeast Association of Student Employment Administrators (NEASEA)

Northeast Business Deans Association (NEBDA)

Northeast Conference (NEC)

Northeast Conference Baseball Committee

Online Learning Consortium (OLC)

Overseas Association for College Admission Counseling (OACAC)

Pennsylvania Association of College Admission Counseling (PACAC)

Phi Delta Kappa, International Religious Educational Association

Physician Assistant Education Association (PAEA)

Sigma Xi, Scientific Research Study

SHARE Center

Society for College and University Planning (SCUP)

Society for Human Resource Management (SHRM)

Society for Industrial and Applied Mathematics (SIAM)

Society for the Scientific Study of Religion (SSSR)

Stamford Chamber of Commerce

Strategic Enrollment Management (SEM)

Teachers of English to Speakers of Other Languages (TESOL)

The Executive DBA Council

Tuition Exchange (TE)

United States Patent and Trademark Libraries

University Professional and Continuing Education Association (UPCEA)

University Risk Management and Insurance Association (URMIA)

Upsilon Pi Epsilon Chapter, International Honor Society for the Computing and Information Disciplines

Western Massachusetts Counselors Association (WMCA)

Westchester Putnam Rockland Counseling Association (WPRCA)

Western Suffolk Counselors' Association (WSCA)

The World Affairs Forum

World Criminal Justice Library Network (WCJLN)

Mission and History

MISSION STATEMENT

Sacred Heart University, rooted in the Catholic intellectual tradition and the liberal arts, embraces a vision for social justice and educates students in mind, body and spirit to prepare them personally and professionally to make a difference in the global community.

HISTORY

Sacred Heart University was founded in 1963 by the Most Reverend Walter W. Curtis, second bishop of the Diocese of Bridgeport, to provide an institution of higher education that would serve the people of the diocese and region, regardless of sex, race, creed or religion. In October 1962, Bishop Curtis announced both the plan to open a college the following September, and its name, "Sacred Heart." The choice of the name had a dual origin: it was the name of the bishop's first pastorate in Bloomfield, N.J., and was a pledge from the bishop attesting to the value of such an institution.

Signs of the University's growth and vibrancy are evident. Enrollment has risen from the original class of fewer than 200 undergraduate students

to almost 10,000 full-time and part-time undergraduate and graduate students. Over the years, Sacred Heart has grown to become the second-largest Catholic university in New England and, according to the *Chronicle of Higher Education*, one of the fastest-growing Catholic Universities in the country.

The University has enhanced the undergraduate student experience in many notable ways. In 1990, it accepted, for the first time, students who wanted the residential experience. Now approximately 93 percent of first-year students and 57 percent of all undergraduates reside in University housing.

New degree programs and majors in relevant disciplines are regularly added to our curriculum, and the University now offers more than 80 undergraduate, graduate, doctoral and certificate programs on its main campus in Fairfield, Conn., and satellites in Stamford, Luxembourg and Ireland. The University consists of six colleges and three schools: College of Arts & Sciences, School of Communication & Media Arts, School of Computing, School of Social Work, the AACSB-accredited Jack Welch College of Business, College of Health Professions, the Susan L. Davis, R.N., & Richard J. Henley College of Nursing, St. Vincent's College and Isabelle Farrington School of Education. The Princeton Review includes SHU in its *Best 385 Colleges—2020 Edition*, "Best in the Northeast" and *Best 252 Business Schools—2019 Edition*. Sacred Heart is home to the award-winning, NPR-affiliated radio station, WSHU, and an impressive performing arts program that includes choir, band, dance and theater.

The University offers Division I athletics with 32 varsity teams. The William H. Pitt Athletic and Convocation Center is available to D-1 athletes for training. The state-of-the-art Bobby Valentine Health and Recreation Center is open to all students and includes a suspended track, bowling lanes, a climbing wall and much more.

The campus currently comprises more than 300 acres of land, including The Great River 18-Hole Golf Course and the former global headquarters of General Electric, which is now SHU's West Campus. West Campus houses the College of Education and the College of Business, including the School of Computing & Engineering and the new hospitality, resort and tourism program. West Campus is an innovative campus with a maker space for engineering students and incubator space where business students can work with local business people on projects.

An ever-widening outreach to the community balances the University's commitment to academic excellence. More than 1,500 students, faculty and staff members volunteer in excess of 100,000 hours of community engagement each year.

Located on 56 suburban acres and adjacent properties in Fairfield, Connecticut, the main campus is just minutes from Exit 47 off the Merritt Parkway (Route 15), about one hour north of New York, and less than three hours south of Boston. Major extension sites of the University are located in Stamford and Griswold, Connecticut. The University also offers a Master of Business Administration degree and undergraduate study abroad in the Grand Duchy of Luxembourg and Ireland.

Main Campus: Fairfield

Sacred Heart University
5151 Park Avenue
Fairfield, CT 06825-1000
203-371-7880 Fax: 203-365-7607

West Campus: Fairfield

Sacred Heart University
3135 Easton Turnpike
Fairfield, CT 06828

Center for Healthcare Education: Bridgeport

Sacred Heart University
4000 Park Avenue
Bridgeport, CT 06604

Sacred Heart University at Dingle

Green Street
County Kerry
Dingle
Ireland

Sacred Heart University at Griswold

Griswold High School
267 Slater Avenue
Griswold, CT 06351
860-376-8408 Fax: 860-376-1798
E-mail: christensenk@sacredheart.edu

Sacred Heart University at Luxembourg

7 rue Alcide de Gasperi
Chambre de Commerce – Bâtiment B, 1st Floor
L-2981 Luxembourg
Luxembourg
352-22-76-13 Fax: 352-22-76-23
E-mail: admissions@shu.lu

Sacred Heart University at Tandet Center

4 Hospital Place
Stamford, CT 06902

LOCATIONS

Discrimination

Sacred Heart University does not discriminate on the basis of race, color, religious creed, age, gender, marital status, national origin, disability, sexual orientation, or veteran status in the administration of its educational policies, admission policies, athletic programs, or administered programs. Any behavior or action that excludes, harasses, or discriminates based on any of the above characteristics is unacceptable and subject to disciplinary action. Any person who has a complaint regarding any unlawful discrimination may obtain the procedures to file a complaint from the Executive Director of Human Resources Department, Julia Nofri, 203-365-4837. A complaint by a student for unlawful discrimination in violation of Sacred Heart University policies, state, or federal law regarding disability may also be filed with the Director of Jandrisevits Learning Center, Ardiana Sula, 203-371-7823, who will direct the complaint to Human Resources. The procedures are set forth as an appendix to this catalog.

Curriculum

The University responds to community needs with programs of study and courses that offer up-to-date specialized information and skills. At the same time, it maintains a commitment to the intellectual development of its students within a well-defined liberal arts program rooted in the Catholic intellectual tradition.

The University offers baccalaureate candidates a choice of majors in the areas of liberal arts, business, and professional studies.

Listing of Undergraduate Programs

The University offers doctoral, education sixth year degrees and certifications, masters and certificate programs.

Listing of Graduate Programs

Admissions

Admissions Process for Full-Time Study

The Office of Undergraduate Admissions coordinates the admission of prospective students interested in both full-time study (12 credits or more per semester) and part-time study (under 12 credits). A breakdown of undergraduate admission policies and requirements for the various categories of admission and application types are described below.

FRESHMAN ADMISSIONS

A candidate for full-time admission to Sacred Heart University as a freshman should submit to the Office of Undergraduate Admissions a completed application (the University uses the Common Application) with the application fee, a high school transcript, one letter of recommendation, and an essay. A visit to campus and an interview are strongly recommended to complement the required credentials.

TRANSFER ADMISSIONS

The University accepts full-time students transferring from other regionally accredited colleges on a rolling basis. Prospective transfer students are required to submit to the Office of Undergraduate Admissions an application for transfer admission (the University has its own) along with proof of completion of a high school diploma (official high school transcript or GED) or proof of an Associate's Degree (posted on official college transcript), additional official college or university transcripts (if applicable), one letter of recommendation, an essay, and the application fee. An on-campus interview is strongly recommended. If the applicant has completed less than 12 credits, please submit a mid-semester grade report during the application process.

A student who has left Sacred Heart University for two consecutive semesters or longer is required to reapply for full-time admission to the University through the transfer admissions process.

INTERNATIONAL ADMISSIONS

Sacred Heart University welcomes students from around the world. International students are eligible to apply to the undergraduate program for full-time study at Sacred Heart University if they have completed the equivalent of a United States secondary-school education (approximately twelve years of formal education) and have the appropriate diploma or satisfactory results on leaving examinations.

Sacred Heart University classifies an international student as a student who does not hold U.S. citizenship, U.S. Permanent Residency (U.S. Resident Alien), or Deferred Action for Childhood Arrivals (DACA) and one who must obtain an F-1 student visa to study in the United States. This includes students who are living and/or studying outside the U.S. and students who are living and/or studying in the U.S. at the time of their application for admission.

Sacred Heart University prefers that international students submit the following information to the Office of International Admissions before November 1 for January entrance and before March 1 for September entrance:

- Complete SHU's Online Application for International Students or the Common Application
- A non-refundable application fee
- Official scholastic records from all secondary schools and college/universities attended which may include semester-by-semester mark sheets, academic transcripts, grade reports, final examination results, diplomas and degree certificates from every high school, college or university attended showing dates attended, course titles, grades obtained, credit hours if any, and the conferral of a bachelor's degree. In addition, an explanation of the secondary/university/college grading system must be provided along with transcripts
- One letter of recommendation
- A course-by-course credential report completed by an organization accredited by the National Association of Credential Evaluation Services (<http://www.naces.org/>) is required for all students who wish to transfer and receive academic credit for coursework taken at another college or university located outside the U.S. In addition, course descriptions, translated in English by a certified official/agency must be submitted for every course the applicant is requesting to be considered for transfer credit.
- For all non-native English speakers, an official English language proficiency examination is required. The following examinations and minimum scores are accepted:
 - TOEFL 550 (paper-based test)
 - TOEFL iBT - 80 (internet-based test)
 - IELTS - 6.5
 - SHU ELI online placement exam – 90%
 - PTE – 62
 - ITEP – 5
 - ELS English for Academic Purposes - Level 112
 - Education First (EF) - C1
 - Cambridge C-1 - Advanced - 180
 - Cambridge C-2 - Proficiency - 180
 - Duolingo English Test - 110
 - GTEC - 1200
 - EIKEN - Pre 1
- Official SAT or ACT test scores (optional)
- Copy of passport, specifically the page(s) containing identification data and signature of bearer
- An official certified bank statement or government financial guarantee in English and U.S. dollar figures, signed by a bank or government official and dated within six months of enrolling at Sacred Heart University verifying the ability of the student, the student's family, and/or the student's sponsor to pay the full cost required to attend SHU for one year (tuition, room, board, books, travel expenses, health insurance, miscellaneous)
- The Immigration I-20 form (the form needed to obtain a student F-1 visa from a U.S. embassy or consulate) will be issued by SHU after the student has been accepted to the University, a non-refundable

enrollment deposit has been received, and proof of financial support in the form of an official bank statement or financial guarantee and payment for the shipping of the I-20 document have been provided. The issuance of an I-20 and subsequent F-1 visa constitutes a legal agreement with the U.S. government binding the student to maintain full-time enrollment (at least 12 credits per semester) at all times except during the summer session. Employment in the U.S. is only allowed if authorized by the Immigration and Naturalization Service

NOTE: Materials that are received by fax (203-365-7607) and e-mail will be used as working documents only and are considered to be unofficial. Such documents may be used for making an admission decision; however, original documents or photocopies with a school seal and signature are required when a student enrolls at Sacred Heart University. Submission of falsified documents is grounds for denial of admission or dismissal from the University.

TRANSFER, ADVANCED PLACEMENT, AND COLLEGE EQUIVALENT CREDIT

Transfer Credit

Credit is awarded from regionally accredited colleges and universities for courses that carry grades of C or better and that parallel Sacred Heart University offerings. The University reserves the right to examine selected courses to determine whether or not their content and quality fit the University's purpose and goals. Sacred Heart University will accept a maximum of 66 credits from two-year colleges and 90 credits from four-year institutions.

For those students who transfer in with at least 60 credits from a regionally accredited 2- or 4-year institution, the standard SHU Core Curriculum will be waived. Please note these waivers do not guarantee the student a total of 60 credits in transfer credits as some courses may not meet transfer credit requirements. In order to earn a Bachelor's degree from Sacred Heart University, students will need (1) a college level math course, (2) CIT 202, (3) at least 40 credits (including transfer credits) in General Education: Humanities, Social/Behavioral Science, Math, Natural Sciences and/or Computer Sciences, major requirements (with at least half of the major requirements taken at SHU), and a minimum of 120 credits.

For incoming traditional freshmen who have earned 60 college credits in a regionally accredited college or university, as above, we will waive the standard SHU Core Curriculum. However, these students must take a First Year Seminar, Critical Thinking and Learning and Catholic Intellectual Tradition II (CIT 202) and complete a First Year Experience course. Please note these waivers do not guarantee the student a total of 60 credits in transfer credits as some courses may not meet transfer credit requirements. In order to earn a Bachelor's degree from Sacred Heart University, students will need (1) a college level math course, (2) CIT 202, (3) at least 40 credits (including transfer credits) in General Education: Humanities, Social/Behavioral Science, Math, Natural Sciences and/or Computer Sciences, major requirements (with at least half of the major requirements taken at SHU), and a minimum of 120 credits.

Students should review their major checklist and MY Degree Progress in Colleague Self Service after transfer credits are posted to their SHU transcript.

THE ADVANCED PLACEMENT PROGRAM

Credit will be given for scores of 4 or 5 on the College Entrance Examination Board Advanced Placement Examination. A grade of T is assigned for these credits. When Advanced Placement credit is awarded, as determined by the academic department, for work that is the equivalent of specific Sacred Heart University courses (e.g., Biology 111), students may not take those courses for credit.

All requests and applications for Advanced Placement should be made to the Office of Undergraduate Admissions before classes begin in the year of entrance to the University. Receipt by the Office of Undergraduate Admissions of an Advanced Placement score report, directly from the College Board, will be considered an application for Advanced Placement and college credit.

INTERNATIONAL BACCALAUREATE PROGRAM

Sacred Heart University considers the International Baccalaureate outstanding for its integrated curriculum and rigor. Any student who pursued an International Baccalaureate Diploma will have his or her individual diploma examinations recorded as transfer credit based on Sacred Heart University equivalencies. A student must present individual Higher Level examinations with scores of 4, 5, 6, or 7 to receive credit (depending on the Sacred Heart University course equivalency) for no more than 30 credits. These individual credits may be applied to general education/core, a major, or an elective. No credit will be awarded for Subsidiary examinations. A student who has been granted credit in a particular area may not enroll for courses that will repeat his or her work in the subject. Students should have their International Baccalaureate Diploma or International Higher Level examination scores sent to the Office of the Registrar.

ACCEPTANCE PROCESS

Sacred Heart University enrolls full-time students in undergraduate programs of study in August and January.

The University accepts full-time, first-year students through the Early Action program (fall term), Early Decision program (fall term), or the Regular Decision program. Transfer applicants are reviewed on a rolling basis.

EARLY DECISION PROGRAM

Students who consider Sacred Heart University their first choice and have demonstrated above-average academic performance may apply under the Early Decision program. Contact the Office of Undergraduate Admissions for the Early Decision program application deadline. In addition, all Early Decision candidates are required to interview with an Admissions Counselor in the Office of Undergraduate Admissions prior to the Early Decision deadline. The University's Early Decision program is binding; therefore, students who are admitted to the University are required to enroll.

EARLY ACTION PROGRAM

Students who consider Sacred Heart University one of their top choices and wish to learn of their admission early in their senior year may apply through the Early Action program. Students who choose to apply for early action should feel they can present the strongest application possible by the end of the first term of their senior year. Prospective students wishing to apply for early action should reference the undergraduate admissions website for deadline information. Students who are accepted and who choose to enroll at the University are required to submit a nonrefundable acceptance deposit. The University observes a May 1 deposit deadline for all students accepted prior to April 15. Deposits received or postmarked after May 1 will be accepted on a space-available basis.

Students accepted to the University under the Early Decision program are required to submit a nonrefundable acceptance deposit. Those who apply for Student Financial Assistance will have the opportunity to preview a financial assistance package on advance of making the binding commitment with the enrollment deposit. To be considered for a financial assistance package in the early decision program, the CSS Profile must be completed. Students deferred through the Early Decision program will be considered through the rolling admissions process.

REGULAR DECISION PROCESS

All other candidates for admission will be evaluated through the Regular Decision process. Decision letters for completed applications under the regular decision process will begin to be sent in February. If financial assistance and housing are a considerations, students should submit their applications no later than March 1 for September enrollment and December 1 for January enrollment.

Students who are accepted and who choose to enroll at the University are required to submit a nonrefundable acceptance deposit. The University observes a May 1 deposit deadline for all students accepted prior to April 15. Deposits received or postmarked after May 1 will be accepted on a space-available basis.

Correspondence should be directed to:

Office of Undergraduate Admissions
Sacred Heart University
5151 Park Avenue
Fairfield, CT 06825-1000
Phone: 203-371-7880
Fax: 203-365-7607
E-mail: enroll@sacredheart.edu

Connecticut law requires that students born after December 31, 1956, provide proof of measles immunization:
<http://www.sacredheart.edu/officeservices/wellnesscenter/healthservices/healthservicesforms/>

STATE AUTHORIZATION RECIPROCITY AGREEMENT

Sacred Heart University has been approved by Connecticut to participate in the National Council for State Authorization Reciprocity Agreements. NC-SARA is a voluntary, regional approach to state oversight of post-secondary distance education. For information regarding professional licensure by state, visit

www.sacredheart.edu/aboutshu/consumerinformation/disclosuresandstudentcomplaints/

VISITING STUDENTS

Visiting students are required to complete the visiting student form found on our website at the following link:
<https://apply2.sacredheart.edu/register/VisitingStudentForm>

Once the form is submitted the student will receive a confirmation email from SHU asking them to complete and submit the Visiting Student Registration Form. Once the student submits the completed registration form they will be registered for their course(s) and will receive a confirmation email that will include the student's ID number and instructions on how to set up their SHU account.

Connecticut law requires that students born after December 31, 1956, provide proof of measles immunization:
<http://www.sacredheart.edu/officeservices/wellnesscenter/healthservices/healthservicesforms/>

TASTE OF COLLEGE FOR HIGH SCHOOL SENIORS AND SENIOR CITIZENS

The Taste of College program is a special admissions program to encourage currently enrolled high school juniors and seniors who show exceptional academic accomplishments to participate in college-level courses. Students need to present an application, a letter of recommendation from their high school guidance counselor, and a high school transcript. Students will receive three college credits after successful completion of the course. Also, adults 62 years of age or older may take college courses on a seat-available basis. Selected course offerings vary each semester. Students may take a maximum of one course (3 credits) each semester, for a maximum of four courses (12 credits) throughout the Taste of College program. All courses must be completed on campus, and online courses are not permitted to be taken when participating in the Taste of College program. High school juniors and seniors must be recommended by their high school counselor and should contact the Undergraduate Admissions Office at 203-371-7880 for information. Senior citizens should contact Undergraduate Part-Time Admissions for more information.

OTHER INTERNATIONAL EXAMINATIONS

Students who wish to receive credit for international school leaving examinations other than the International Baccalaureate should have copies of their results sent to the Office of International Admissions who, in consultation with the Registrar and respective academic departments, will determine the amount of credit to be given and the distribution of such credit. A student who has been granted credit in a particular area may not enroll for courses that will repeat his or her work in the subject.

For the most commonly presented international/foreign examinations, the guideline of acceptance of college credit is:

- French Baccalaureate—scores of 12–20
- German Abitur—scores of 7–15 (“befriedigend” or better)
- Swiss Matura—scores of 5 or 6

- United Kingdom “A” Level General Certificate Examinations—grade of A, B, or C

Other international/foreign examinations presented are evaluated for credit by the University Registrar, in consultation with appropriate departments and appropriate international evaluation credential agencies, such as the World Education Services, Inc., located in New York City.

Admissions Process for Part-Time Study

All part-time undergraduate students are admitted through Undergraduate Admissions.

If an individual is a first-time student, he/she must submit a high school transcript and meet with an admissions counselor.

New students should follow these easy steps to become part-time students at Sacred Heart University:

Create an account, complete an online application and make an appointment to meet with a part-time admissions counselor. The application form is available online at <https://apply.sacredheart.edu>. Transfer students should fax a copy of their college transcript(s) to Undergraduate Admissions prior to their appointment. A final official transcript should be submitted to the Registrar’s Office for evaluation and inclusion in the student’s academic record. Students may register for up to 11 credits.

All admissions requirements must be fulfilled prior to being awarded financial assistance. All students must be in compliance with state law before registering. For information regarding immunization requirements, contact the University’s Health Services Office at 203-371-7838 or visit the Health Services website: www.sacredheart.edu/healthservices

St. Vincent's College Admission Criteria (Associate Degree Programs)

The Admissions Committee reviews applications holistically, giving applicants the opportunity to demonstrate their potential for success at SVC. The application review includes an analysis of academic preparation, including high school transcript, coursework rigor and selected grades in Math and Science, as well as life experiences such as professional skills training and military experience.

General criteria for admission (first-time college students) include:

- Minimum GPA of 2.75
- GED, or high school diploma including:
 - 3+ years of high school Math, including 2 years of Algebra and 1 year of Geometry; minimum grade of C+
 - 1 year of high school Chemistry; minimum grade of C+
 - 1 year of high school Biology; minimum grade of C+
 - SAT/ACT scores (optional)

General criteria for admission (transfer students) include:

- Minimum GPA of 2.75

- GED, or high school diploma (this requirement is waived with proof of an Associate's or Bachelor's degree)
- Attended or received credit from a regionally accredited college or university

COLLEGE CREDIT BY EXAMINATION—NATIONAL TESTING PROGRAMS

EXCELSIOR, CLEP, and DANTES

These are national programs awarding college credit by examination.

The University awards credit for CLEP, DANTES, and certain EXCELSIOR exams. College credit is awarded when a student successfully passes an exam. Credit is awarded only in areas where the student does not have prior credit applied toward a degree.

Students may not take exams in a graduating semester.

Sacred Heart University offers the nursing student the opportunity to take EXCELSIOR exams in anatomy and physiology I and II, and the National League for Nursing (NLN) challenge exam in microbiology. For additional information concerning these exams, contact the Nursing Programs Office at 203-371-7715.

Assessment of Prior Learning Program

Recognizing that higher education also occurs outside the classroom, the University awards academic credit to students for what they have learned through life and/or work experience in very exceptional circumstances. This experience can be the result of self-education, professional certification, in-service training programs, volunteer work, or management work.

In order to apply for credit, the student must be enrolled at the University in the semester in which the portfolio is submitted. Credit is awarded only for experience that parallels the University’s courses and programs. This credit can be used in the core curriculum, in the major, or as free electives as long as the student completes at least 30 credit hours in the classroom, with half of the required major courses taken in the classroom at Sacred Heart University. No more than 60 credits can be awarded for prior learning and CLEP, DANTES, and EXCELSIOR combined. This credit is not awarded in areas where national testing programs are applicable.

For this process of Prior Learning Assessment, Sacred Heart University has partnered with Charter Oak State College so our students will benefit from a long-standing PLA program from which SHU accepts transfer credits.

The process includes enrolling in a portfolio course that is designed to help students analyze their experience, relate it to specific college courses, determine what the learning objectives and/or topics covered in the course would be, and choose appropriate supporting documentation. It guides students through the process of constructing a résumé, identifying areas where they have college-level knowledge, writing a biographical overview of their relevant background, analyzing course knowledge components, and completing a narrative essay that will do the following:

- Describe what the student knows

- Relate that knowledge to every course knowledge component that the student has identified
- Specify when, where, and how the student acquired that knowledge
- Present each piece of supporting documentation and describe how it supports the student's claim to knowledge

A portfolio(s) is then submitted for evaluation. Credits earned can then be transferred to SHU.

For additional information on the Assessment of Prior Learning program, contact Undergraduate Part-Time Admissions.

Withdrawals from courses must be submitted to the Office of the Registrar. Official withdrawal is necessary and must be submitted by the last day to withdraw (see Academic Calendar for deadline dates).

STATE AUTHORIZATION RECIPROCITY AGREEMENT

Sacred Heart University has been approved by Connecticut to participate in the National Council for State Authorization Reciprocity Agreements. NC-SARA is a voluntary, regional approach to state oversight of post-secondary distance education. For information regarding professional licensure by state, visit www.sacredheart.edu/aboutshu/consumerinformation/disclosuresandstudentcomplaints/

Expenses and Student Financial Assistance

Tuition and Fees

Subject to approval by the Board of Trustees (Academic Year 2020–2021)

GENERAL INFORMATION

- All tuition and fees must be paid on or before registration for each semester or session unless prior arrangements have been made.
- Students will not be allowed to register with a prior balance.
- A degree will not be conferred and a transcript and/or educational verification will not be issued until all financial obligations to the University have been met.
- The University reserves the right to require any past balance to be paid by certified check.
- If information regarding billing is needed, it is the student's responsibility to contact the Student Accounts Office at (203) 371-7925, prior to scheduled payment dates to avoid any late payment charges.
- Student Accounts representatives may only speak with the student regarding student account details, unless the student identifies an authorized user(s).
- Billing information is available by logging in to student's account at www.sacredheart.edu/studentaccounts

FULL-TIME STUDENT

Full-Time Undergraduate Tuition & Fees 2020-2021

Tuition/Fees	Cost
Full-Time Undergraduate Tuition 12 - 18 Credits (Fall & Spring only)	\$22,040/semester*
Credit Overload Tuition(19 or more credits)	\$1,175/credit
Winter, Late Spring and Summer classes:	
<ul style="list-style-type: none"> • Registration fee of \$115 will also be required See Part-Time Undergraduate rate information for details 	\$650/credit
Audit Fee	\$985/class
Full-Time to Part-Time Undergraduate Tuition	

(change in status from Full-Time to Part-Time after 84 completed credits)

\$1,470/credit**

**Review additional fee information for Part-Time Undergraduate Students

***Incoming Freshman Resident's \$1,500 Admission Deposit is applied as follows: \$1,350 to their Student Tuition Account (first semester) and \$150 is held as a Housing Damage Deposit.**

Study Abroad Fees

Visit the study abroad website for information and rates.

MANDATORY FEES PER SEMESTER

Athletic & Recreation Fee (Mandatory)	\$135/semester
Health Insurance(review enroll/waiver process)*(Mandatory)	\$2,464
<ul style="list-style-type: none"> • Billed Fall semester, coverage for full year, August, 2020 to August, 2021 	

Waiver deadline: September 4, 2020

COURSE & PROGRAM FEES

Program/Course Fees	Cost
Art	\$125/course
Athletic Training Program Fee <i>Sophomores/Juniors/Seniors declared Athletic Training</i>	\$575/semester
Biology	\$190/course
Chemistry	\$200/course
Chemistry UG Research: CH395	\$250/course
Engineering Lab Fee:ENGR125, CPE311, CPE313, CPE323, CPE325, CPE417,CPE418	\$250/course
Exercise Science Fee:EX101	\$20/course
Exercise Science Fee:EX102	\$90/course
Exercise Science Program Fee	\$575/semester

<i>Sophomores/Juniors/Seniors declared Exercise Science</i>		Elizabeth Ann Seton Hall	\$5,615/semester
First Line Police Supervisor Course:CJ239	\$595/course	JorgeBergoglio Hall	\$5,865/semester
Health Science Program Fee <i>Students declared Health Science</i>	\$100/semester	Oakwood Garden Apartments	\$5,615/semester
Healthcare Informatics Record Fee	\$50/course	Pier Giorgio Frassati Hall	\$6115/semester
Healthcare Informatics Program Fee	\$50/semester	Pierre Toussaint Hall	\$5,865/semester
Welch College of Business Fee <i>Sophomores/Juniors/Seniors with an active program in the Welch College of Business& Technology</i>	\$750/semester	Pioneer Garden Apartments	\$5,615/semester
Media Studies	\$40/\$140 per course	The Ridge Apartments	\$5,615/semester
Music Lab(1 credit)	\$300/course	Scholars Commons	\$5,615/semester
Music Lab(2 credits)	\$600/course	Taft Commons	\$5,615/semester
Nursing Assessment:NU215	\$650/course	Thomas Merton Hall	\$5,615/semester
Nursing Differential:NU205, NU215, NU300, NU340, NU360, NU381	\$675/semester	Upper Quad Bldgs 4 & 5	\$5,615/semester
Nursing Lab:NU205, NU220, NU215, NU300, NU330, NU340, NU374, NU360, NU381, NU395	\$275/course	MEAL PLANS	
Physics	\$200/course	Meal Plans	Cost
Psychology Research	\$105/course	Executive Premium Meal Plan <i>Available by request</i>	\$3,136/semester
Social Work Assessment Fee:SW276	\$200 per course	Big Red Meal Plan <i>Required by Housing Assignment (all first-year students)</i>	\$2,631/semester
Social Work Program Fee:SW278, SW378, SW380	\$350/course	Pioneer Meal Plan <i>Required by Housing Assignment</i>	\$1,992/semester
Student Teaching <i>Fee also applies to DSAP 6+3 Education</i>	\$325/semester	Red & White Meal Plan <i>Required by Housing Assignment</i>	\$1,140/semester
RESIDENCE HALLS		Black Rock Meal Plan <i>Available by request</i>	\$570/semester
Residence Hall	Cost	Park Avenue Meal Plan <i>Available by request</i>	\$280/semester
Angelo Roncalli Hall	\$5,615/semester	Jefferson Meal Plan <i>Required for Commuters</i>	\$275/semester
Christian Witness Commons	\$5,615/semester	OTHER FEES	
ElieWiesel Hall	\$6115/semester	Fees	Cost

Payment Plan(available Fall & Spring only)	\$65/semester
Returned Check	\$40
Full-Time Undergraduate Application	\$50
Replacement Diploma Fee	\$50 pick-up \$75 by mail
Transcript	\$10

Notes

- If information regarding billing is needed, it is the student's responsibility to contact the Student Accounts Office at (203) 371-7925, prior to the scheduled payment due dates to avoid any late payment charges. (Visit semester payment options for balance due date)
- Student Accounts representatives may only speak with the student regarding student account details, unless the student identifies an authorized user(s). ()
- It is the sole responsibility of the student to maintain a current mailing address with the Registrar's Office. Log onto WebAdvisor to update your personal information.

All Rates are subject to Board of Trustee approval. Charges listed above are subject to audit and do not constitute an official bill.

PART-TIME STUDENT

Part-Time & Accelerated Undergraduate Tuition & Fees 2020-2021

Part-Time Undergraduate Tuition	\$650/credit
Full-Time to Part-Time Undergraduate Tuition (change in status from Full-Time to Part-Time after 84 completed credits)	\$1,470/credit
Second Degree Accelerated Nursing (ABSN) \$250 Lab Fee per course: NU205, NU220, NU215, NU300, NU340, NU374, NU360, NU381, NU395 \$600 Assessment fee per course: NU215 \$650 Nursing Differential per course: NU205, NU215, NU300, NU340, NU360, NU381	\$795/credit
RN to BSN (Online) \$200 Clinical Oversight fee: NU376, NU387 \$200 Technology fee: NU325	\$590/credit

Taste of College High School Student Program/17 <i>Max 2 6 Credits (additional credits at PT Rate)</i>	\$133/credit
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Taste of College Accelerated High School Student Program/17 (St. Joseph & Notre Dame, Fairfield, CT) <i>Max 6 Credits (additional credits at PT Rate)</i>	\$65/credit
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Taste of College Senior Citizen Program/62 <i>Max 6 Credits (additional credits at PT Rate)</i>	\$100/credit
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Registration Fee (required and non-refundable)	\$115/semester
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Audit	\$985/course
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Audit Registration Fee (non-refundable)	\$115/semester
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**Tuition is charged on a per credit hour basis and varies by program.*

Program & Lab Fees

Visit Full-Time Undergraduate Fee Schedule

Online Programs

Visit the SHU Online website for information and rates.

Other Fees

	Other FeesCost
Graduation Application Fee	\$160
Payment Plan(available Fall & Spring only)	\$65/semester
Guaranteed Payment Plan	\$80/semester
Guaranteed Payment Plan Late Fee	\$90
Returned Check	\$40

Notes

- If information regarding billing is needed, it is the student's responsibility to contact the Student Accounts Office at (203) 371-7925, prior to the scheduled payment due dates to avoid any late payment charges. Visit semester payment options for balance due date.
- Student Accounts representatives may only speak with the student regarding student account details, unless the student identifies an authorized user(s).
- It is the sole responsibility of the student to maintain a current mailing address with the Registrar's Office. Log onto WebAdvisor to update your personal information.

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ST. VINCENT'S COLLEGE

St.Vincents College Tuition & Fees 2020-2021

Initial Program Fees	Cost
Application Fee	\$25
Deposit Required	\$250
\$125 of this fee will pay Health & Security Background Clearance (Castle Branch)	
Explanation of Fee:	
<ul style="list-style-type: none"> • \$54.75 Background Check • \$38 Drug Screen • \$30 Lifetime Compliance Tracking Tool • \$2.25 Administrative processing fee 	

Associate Degree Programs

Tuition/Fees	Cost
Nursing/Radiography/General Education Tuition	\$650/credit
Lab Fee	\$150/course
<ul style="list-style-type: none"> • Nursing: NUR 101 ,123, 124, 230, 231, 232 & 270 	

- Radiography: RAD 101, 112, 200, 221, 232, & 412

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General Ed: BI 127, 129, 162, 208, & 209, PY 104L

ATI Fee \$588/course

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Nursing: NUR 101, & 124

ATI Fee \$515/course

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Nursing: NUR 270

ATI Fee \$175/course

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Nursing: NUR 230, 231& 232

ATI Online Student Capstone(NUR 122) \$588/course

Examsoft Fee (Effective Fall 2019) \$100/course

- Nursing: NUR 101

•

Radiography: RAD 101

Radiography Review Fee(RAD 232) \$80/course

Registration Fee \$50/term

Graduation Fee(NUR 270 & RAD 232) \$160

Certificate Programs (Credit)

Program Details	Anticipated Cost*
Bone Density	\$4,150
<ul style="list-style-type: none"> • 6 credit program at \$650 per credit 	

<ul style="list-style-type: none"> Program Lab Fee \$150 	
•	
Program Registration Fee \$50 per term	
Computed Tomography (CAT Scan)	\$5,250
<ul style="list-style-type: none"> 8 credit program at \$650 per credit 	
<ul style="list-style-type: none"> Program Lab fee \$50 per course 	
•	
Program Registration fee \$50 per term	
Diagnostic Medical Sonography	\$12,000
<ul style="list-style-type: none"> 18 credit program at \$650 per credit 	
<ul style="list-style-type: none"> Program Lab fee \$150 	
•	
Program Registration fee \$50 per term	
Mammography	\$5,450
<ul style="list-style-type: none"> 8 credit program at \$650 per credit 	
<ul style="list-style-type: none"> Program Lab fee \$50 per course 	
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Program Registration fee \$50 per term	
MRI	\$6,750
<ul style="list-style-type: none"> 10 credit program at \$650 per credit 	
<ul style="list-style-type: none"> Program Lab fee \$150 	
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Program Registration fee \$50 per term	

Brewing Science Certificate	\$15,000
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- 22 credit program at \$650 per credit

- Program Lab Fee \$175 per Craft Beverage Brewing course

- Program Lab/Certifications fee \$200

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Program Registration fee \$50 per term

**Anticipated Cost is an estimate of total cost based on the format/length of program as noted*

Certificate Programs (Non-Credit)

Program Details	Total Cost
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Central Sterile Processing Technician	\$1,600
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10 week program

Certified Nursing Assistant	\$1,500
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- 10 week program

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Lab fee: \$50 per course

Patient Care Technician	\$1,820
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- 10 week program

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Lab fee: \$150

CPR Certificate/Re-certification	\$80
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Other Fees

Fee	Cost
Audit Fee	\$985/course
Garage Parking	\$475
International Processing Fee	\$250
Returned Check Fee	\$40
Transcript Fee	\$10

Notes

- If information regarding billing is needed, it is the student's responsibility to contact the Student Accounts Office at (203) 371-7925, prior to the scheduled payment due dates to avoid any late payment charges. (*Visit semester payment options for balance due date*)
- Student Accounts representatives may only speak with the student regarding student account details, unless the student identifies an authorized user(s). (Authorized User instructions)
- It is the sole responsibility of the student to maintain a current mailing address with the Registrar's Office. Log onto WebAdvisor to update your personal information.

All Rates are subject to Board of Trustee approval. Charges listed above are subject to audit and do not constitute an official bill.

OTHER FEES**Other Fees 2020-2021****Additional Fees & Rates 2020-2021**

Fees & Rates	Cost
Returned Check Fee	\$40
On-Line Payment Plan	\$65/plan (one plan per semester)
Guaranteed Payment Plan (GPP)	\$80/plan (one plan per semester)
GPP late payment charge	\$90/semester
Replacement Diploma(mail)	\$75
Replacement Diploma(pick-up)	\$50
Transcript Request	\$10/transcript

All rates are subject to Board of Trustee approval. Charges listed above are subject to audit and do not constitute an official bill.

HEALTH INSURANCE

All Full-Time Undergraduate Students must have health insurance and will be automatically enrolled in the University Health Insurance Program. Students with proof of comparable Health Insurance coverage within the State of Connecticut, may waive out of the University Health Insurance Program. The review of this requirement is completed on an annual basis.

All full-time Undergraduate International Students are enrolled in the University insurance program and cannot waive out.

To waive health insurance visit: www.gallagherstudent.com/SHU.

Students may elect to activate the University Health Insurance Program prior to automatic enrollment. To obtain the new health insurance card, please log on to www.gallagherstudent.com/SHU, then select "I want to Enroll."

For further information, contact Health Services at (203) 371-7838 or visit www.sacredheart.edu/studentaccounts

TUITION INSURANCE**Tuition Refund Insurance****Tuition Insurance Partner: Liberty Mutual Insurance**

As a supplement to the Student Accounts Withdrawal and Refund Policy, we are pleased to offer a Tuition Insurance program through Liberty Mutual Insurance.

The insurance plan supplements our institutional refund policy, and provides up to 100% coverage throughout the entire term. If you withdraw from classes due to illness, injury, mental health issues, unforeseen loss of life or any other eligible reason, the plan will ensure that you receive 100% reimbursement for your insured tuition, room and board, and mandatory fees.

How to enroll: Get a customized quote directly on the Liberty Mutual website. You can purchase a policy for as little as 1% of your Sacred Heart University expenses. Families can choose the specific tuition amount they want to insure, by semester or for the full year.

International and study abroad students are also eligible for Tuition Insurance. Study Abroad students must purchase a policy prior to the first day of classes at the foreign university.

QUESTIONS?

Email: tuitioninsurance@libertymutual.com and receive a response within 1 business day.
Phone: (800) 290-6347

PAYMENT OF TUITION AND FEES**General Payment Policy**

- Student Accounts may only assist students. All other parties must be identified by the student as an Authorized User

- Students must be enrolled in a payment plan, paid in full and/or covered by Student Financial Assistance to attend a semester.
- If accounts are not paid to date, classes are subject to cancellation on a date determined by the University.
- Sacred Heart University requires that a student's account must be current for the student's SHU ID card to be activated.
- Students' accounts that are not paid will be restricted from adding or dropping classes.
- Failure to meet this policy may require payment in order to register for new courses or payment in certified funds.

Full-time Undergraduate Students not enrolled in a payment plan must pay their account in full by:

- Fall semester: Payment in full is due July 1
- Spring semester: Payment in full is due December 1
- Winter & Spring Intensive semesters: Due upon registration
- Late Spring & Summer 1 semester: Payment in full is due April 19
- Summer semester 2: Payment in full is due June 1
- After due date: Payment is due at the time of registration. When payment is not received by the due date, a late fee will be assessed at the rate of .75% per month on the unpaid balance (annual rate of 9%), such charge to be computed from the due date.

Monthly Payment Plan Options

A monthly payment plan is available during regular terms (Fall and Spring). For additional information and/or to enroll, go to www.sacredheart.edu/studentaccounts.

Late Fee

If a payment is received later than the due date, a finance charge will be assessed at the rate of .75% per month, annual rate of 9%.

Guaranteed Payment Plan

This program enables part-time students to register for a term without tuition payment at the time of registration. Further information regarding the Guaranteed Payment Plan can be obtained online at www.sacredheart.edu/studentaccounts.

VA Pending Payment Policy

In accordance with the Veterans Benefits and Transition Act of 2018, beneficiaries of Chapter 33 (Post-9/11 GI Bill) and Chapter 31 (Vocational Rehabilitation) may attend courses while VA payments are pending as long as they submit:

1. A valid Certificate of Eligibility (or equivalent e-Benefits form) or valid VA 28-1905 to the Registrar's Office.
2. A written request for VA certification for the term (VA Enrollment Certification Request Form).
3. Provide any additional information needed to properly certify the enrollment as requested by the Registrar's Office.

Beneficiaries who have fulfilled the requirements above will not be denied access to classes, libraries, or institutional facilities, nor will they be prohibited from course registration. Such beneficiaries will not be required to seek alternative or additional funding in place of their pending VA payment. Beneficiaries who have provided proof of eligibility for 100% tuition coverage via Chapter 33 GI Bill, Yellow Ribbon, or Chapter 31 (in addition to the items listed above) will not be assessed late fees for VA covered education expenses while the university is waiting VA payment. Beneficiaries eligible for less than 100% tuition coverage may be assessed a late charge for the uncovered portion of their tuition and non-VA covered education expenses if they have not met financial obligations prior to the semester payment deadline.

WITHDRAWALS/REFUNDS

Withdrawals from courses must be made through the Office of the Registrar. Full-time students withdrawing from the University must see the Assistant Dean of the College of Arts and Sciences or the Director of Advisement for an exit interview.

Part-time students withdrawing from the University or from individual classes must obtain a course withdrawal form from the Registrar's Office.

Official withdrawal is necessary to ensure the proper entry of grades on the transcript and the determination of any refund, if applicable.

Withdrawal from the University within four weeks from the beginning of a semester entitles the candidate to a proportional refund of tuition. Refunds are granted only if the candidate complies with the withdrawal procedures as prescribed by the Registrar's office.

Withdrawal/Refund Policy:

- Refunds are based on full tuition charges.
- Failure to withdraw properly will result in the issuance of a Withdrawal/Failure grade and responsibility for payment in full.
- If a student withdraws prior to the start of the semester, all fees will be refunded, except the registration fee. Once a semester begins, there are no refunds of fees, this includes registration fees, lab fees & music lab fees.
- Refunds will not be given to students who have an outstanding balance.
- Refunds are based on the schedule below and determined by the date of notification to the Registrar's Office/Advisement Office, not the date of last class attended.
- Students are required to request refunds - please contact Student Accounts Office at (203) 371-7925 or submit your request in writing to the Student Accounts Office, SC Lower Level.

- Withdrawing from courses or failing to attend courses will impact your financial aid. For details please see SHU's Financial Assistance Withdrawal policy.

Withdrawal/Refund Schedule:

Sacred Heart University Online Program

- 100% Before start of first week
- 80% the 1st week of Classes
- 0% after the 1st week of Classes

Fall and Spring Semesters

- 100% Before start of first week
- 80% Before start of 2nd week
- 60% Before start of 3rd week
- 40% Before start of 4th week
- 20% Before start of 5th week
- 0% After 5th week

Summer Undergraduate Classes

- 100% Before start of 1st week
- 75% Before start of 2nd week
- 50% Before start of 3rd week
- 25% Before start of 4th week
- 0% Before start of 5th week

Intensive terms (for all students) - including Winter & Spring

- 100% Before start of 1st week
- 0% Once class begins

University will not release grades, transcripts, education verifications, diplomas or allow a student to register for subsequent terms with a delinquent balance.

The University reserves the right to request all delinquent payments be made in the form of a bank check, certified check or money order.

Refund Allocation Policy for Federal Financial Aid Funds

Bank Mobile Electronic refunds - to set up electronic refund preference go to <http://www.Refundselection.com>.

Official Withdrawal— Withdrawing from all courses is considered withdrawing from the University. If you do this before 60% of the semester is completed (approximately 8–9 weeks into the semester), your financial aid award will be recalculated, according to the percentage of the semester you have completed. The formula for calculating this percentage is:

(Days enrolled) – (Official breaks of five days or longer)

Total number of class days in the semester.

Unofficial Withdrawal— If a student stops attending classes without notifying the University, we will be required to recalculate your federal financial aid using the last date of an academically related activity in which the student participated as documented by the student's instructor(s). If the Office of Student Financial Assistance is unable to obtain the last date of an academically related activity, we will be required to recalculate the student's federal aid using the midpoint of the semester. If the University is required to send back money to the federal loan programs, the student may incur institutional charges for the term.

Student Financial Assistance

The University is committed to helping students plan financially for their college education. The Office of Student Financial Assistance advises students in their effort to locate appropriate financial resources.

Financial assistance is generated from a variety of sources including federal, state, university, and private or local resources. These sources provide scholarships, grants, loans, and part-time employment to assist students with the cost of their education.

Students who need assistance in formulating a financial plan for college should contact the Office of Student Financial Assistance at 203-371-7980. Confidential appointments can be arranged to discuss personal financial situations and all possible avenues of financial assistance.

FAMILY DISCOUNT PLAN

The Family Discount Plan offers a reduction in undergraduate tuition costs when two or more individuals from the same family are enrolled as full-time undergraduates at the University. Each full-time undergraduate student must take at least 12 undergraduate credits during the period of the award.

Family discount forms can be obtained from the Office of Student Financial Assistance prior to registration or by going to the Financial Assistance webpage at <https://www.sacredheart.edu/admissions--aid/financial-assistance/forms/>.

ELIGIBILITY

Undergraduate students are eligible for financial assistance provided they are citizens or permanent residents of the United States and are enrolled in the University on at least a half-time basis working toward a degree.

In addition, students must maintain satisfactory academic progress and be in good standing in their course of study.

For purposes of determining student eligibility for financial assistance under Title IV, HEA programs, the University establishes, publishes, and applies Satisfactory Academic Progress (SAP) standards that meet all federal requirements. To be eligible to receive federal financial aid, a student is required to maintain satisfactory academic progress in his or her course of study according to the University's published standards. SAP standards are based on cumulative measures of a student's progress toward degree completion. The Office of Student Financial Assistance is responsible for ensuring that all students who receive financial aid meet these standards. To be eligible to receive institutional funds, a student is also required to maintain satisfactory academic progress toward degree completion.

For more information and the complete policy, please visit <https://www.sacredheart.edu/admissions--aid/financial-assistance/full-time-undergraduates/satisfactory-academic-progress-policy/>.

Students in default on any loan made from a student loan fund at any university or in default on a loan made, insured, or guaranteed under the Federal Direct, Perkins or Stafford Loan, or Federal PLUS Program are not eligible for assistance.

APPLICATION PROCEDURES

To be considered for financial assistance at Sacred Heart University each year, the student must meet the requirements outlined below:

- All students must complete a Free Application for Federal Student Aid (FAFSA) to be considered for federal or state financial aid. Sacred Heart University's Title IV Code is 001403.
- New full-time undergraduate student financial assistance applicants must also complete the College Board PROFILE Application with the College Scholarship Service (CSS) to be considered for university or private financial assistance. Returning students who want a re-evaluation for additional university or private financial assistance must also complete the Profile Application. To have an official report sent directly to Sacred Heart University, use the University's CSS code number 3780.

Priority deadline to apply for financial assistance is:

New full-time undergraduate students: February 15

Returning undergraduate students: March 15

Additional verification and documentation may be required each year according to individual circumstances, such as parent and student federal income tax transcripts, social security card, citizenship verification, driver's license, and others. You will receive instructions from the Office of Student Financial Assistance regarding submission of the required documents.

NOTIFICATION AND ACCEPTANCE OF FINANCIAL AID AWARDS

All students will be notified of the status of their financial assistance applications and the amount of their awards in writing and/or via our online inquiry system SHUAwards. SHUAwards may be accessed through the University website at www.sacredheart.edu. On SHUAwards, students will be able to view awards and required documents, see which messages pertain to your financial assistance awards, and view loan history as well as access the Sacred Heart University Federal Shopping Sheet. The student must either accept or decline the award package online within two weeks of notification. Students have the right to request a review of their awarded assistance.

RETURNING AID

If you have been awarded Title IV (federal) or state aid and you withdraw before completing 60% of the semester, some portion of your financial aid must be returned. The above formula determines what portion of the aid must be returned and the list below indicates the order in which the aid is returned.

Refunds to Federal Title IV programs are made in this order:

1. Federal Direct Unsubsidized Loan

2. Federal Direct Subsidized Loan
3. Federal Perkins Loan
4. Federal Graduate PLUS Loan
5. Federal Parent Loan for Undergraduate Students PLUS
6. Federal Pell Grant
7. Federal Supplemental Educational Opportunity Grant (SEOG)
8. Other federal sources of aid
9. Other state, private, or institutional aid
10. The student

Refund examples are available in the Office of Student Financial Assistance. It is important to discuss withdrawal and refund as it pertains to the individual student, and its implications for federal student loan repayment and future eligibility for financial assistance.

Classes Offered in Modules

Classes offered in modules are course(s) that do not span the entire payment period (semester). An example of a module course(s) is two eight-week classes within a 16-week semester.

A student **would not** be considered withdrawn and a Return to Title IV calculation **would not** be processed:

- If a student provides *written confirmation that he or she will return* for another module in the same semester.
- If a student does not provide written confirmation that he or she will return for another module in the same semester and *does return*, the Return to Title IV calculation will be reversed and the student will regain prior eligibility.
- If a student drops a future module and is attending a current module course at the time of the drop. However, if the student's enrollment status has changed, it may result in financial aid being adjusted.

A student **would** be considered withdrawn and a Return to Title IV calculation **would** be processed:

- If the student does not complete all the days he or she was scheduled to complete within a semester or module for which their aid was intended.
- If a student intends to return for another module in the same semester and *does not return*, the student is considered to have withdrawn based on the last day of attendance.

FEDERAL PROGRAMS

Several federally funded programs are available to qualified students who are U.S. citizens or eligible non-citizens.

Federal Pell Grants

Pell Grants are funded by the federal government and are designed to provide financial assistance to undergraduate students who exhibit financial need pursuing their first undergraduate degree. Pell awards are based on the federally calculated EFC and the student's enrollment. The maximum award is \$6,345 for an academic year.

Federal Supplemental Educational Opportunity Grant (SEOG)

SEOG awards are provided by federal and institutional funds and are restricted to undergraduate students who demonstrate exceptional financial need. Grants range in amounts from \$100 to \$4,000 a year.

Federal College Work-Study (CWS)

Work-Study is funded by federal and institutional sources. Students who qualify for this program may be assigned a part-time job on campus. Earnings assist in meeting the cost of attending college. Students are paid bi-weekly at a rate established in accordance with federal and University standards.

Federal TEACH Grant

The TEACH Grant Program is a non-need based federal program that provides up to \$4,000 per year to students enrolled in a TEACH Grant eligible program and who agree to teach as a high-qualified teacher in a high-need field at a low-income elementary or secondary school for at least four years within eight years of completing the program for which the TEACH Grant was awarded. If the grant recipient fails to complete the required teaching service, the TEACH Grant is converted to a Federal Direct Unsubsidized Loan with interest accruing from the date the grant was disbursed.

GI Bill/Yellow Ribbon Program

The Yellow Ribbon GI Education Enhancement Program (Yellow Ribbon Program) is a provision of the Post-9/11 Veterans Educational Assistance Act of 2008. This program allows institutions of higher learning (degree-granting institutions) in the United States to voluntarily enter into an agreement with VA to fund tuition and fee expenses that exceed the national maximum amount payable under the Post-9/11 GI Bill (\$25,162.14 as of the 2020–2021 academic year). Sacred Heart University and VA will contribute up to the remainder of the tuition and fees not covered by the national maximum. Only individuals entitled to the maximum benefit rate (based on service requirements) may receive this funding. Students may be eligible if they served an aggregate period of active duty after September 10, 2001 of at least 36 months if they were honorably discharged from active duty for a service-connected disability and served 30 continuous days after September 10, 2001 or if they are dependents eligible for Transfer of Entitlement under the Post-9/11 GI Bill based on a veteran's service under the eligibility criteria listed above. Active duty service members and spouses of active duty service members using Transferred Entitlement are not eligible for the Yellow Ribbon Program. Under Transferred Entitlement, a child of an active duty service member is eligible for the Yellow Ribbon Program if the service member qualifies for the maximum benefit rate. For additional information, please visit <http://www.sacredheart.edu/officeservices/registrar/vabenefits/yellowribbonprogram/>.

Applicants are also encouraged to visit <http://explore.va.gov/education-training>.

Federal Direct Loan (Subsidized and Unsubsidized)

The Federal Direct Subsidized Loan is available to eligible students who demonstrate financial need. The government pays the interest on the loan while the student is in school.

The Federal Direct Unsubsidized Loan is available to eligible students regardless of financial need (i.e., regardless of family income). Students are responsible for interest payments on the loan while attending college, or they may choose to have the interest capitalized.

Students start repayment of the loan(s) (plus interest) six months after they graduate, withdraw, or change to less than half-time status. Repayment of principal and interest is spread over a 10-year period. Other repayment options are available. Undergraduate freshmen may borrow up to \$5,500 per year (no more than \$3,500 of this amount may be subsidized); sophomores may borrow up to \$6,500 per year (no more than \$4,500 of this amount may be subsidized); and juniors and seniors may borrow up to \$7,500 per year (no more than \$5,500 of this amount may be subsidized).

Independent undergraduate students and dependent students whose parents cannot borrow a PLUS Loan can receive an additional \$4,000 for their freshman and sophomore years and \$5,000 for their junior and senior years. Students must be enrolled at least half-time and must be making satisfactory academic progress.

Federal Direct Parent Loan (PLUS)

The Parent PLUS is a fixed-interest loan for parents with good credit histories who have dependent undergraduate students in school. The federal government requests that a student complete a FAFSA before the parent can receive a Direct PLUS Loan.

The yearly loan limit is the cost of education minus financial assistance. Parents are expected to begin making payments once the loan is fully disbursed. Parents may request a deferment of payments while the student is enrolled at least half-time. Parents also may take up to 10 years to pay back the loan.

STATE PROGRAMS

Financial assistance programs are available to qualified students from the State of Connecticut, including the Roberta B. Willis Scholarship Program. Many other states also have scholarship programs for residents of their state. For more information, contact your state's agency for higher education.

Connecticut Roberta B. Willis Scholarship Program

The State of Connecticut provides financial assistance under the Roberta B. Willis Program (RWSP) through need-based and merit-based aid and the need-based financial aid programs to eligible Connecticut residents enrolled as undergraduates at Connecticut's public and nonprofit, independent institutions of higher education. For the RWSP need-based, merit-based award, a student must be graduated from high school with a class rank of 20% or better and/or SAT scores of at least 2010 or ACT score of at least 27. Applicants must have an electronic application filled out by the student's high school guidance counselor and submitted to the Connecticut Office of Higher Education by February 15th. Additionally, students must file a FAFSA by February 15th. A Connecticut resident who attends a Connecticut public or non-profit independent institution may be a recipient of the Roberta B. Willis Scholarship need-based award. The recipient must have a federal Expected Family Contribution (EFC) within the allowable range determined by filing the FAFSA. Students cannot receive both. Funding is available based on state approved allocations to institutions and may be limited.

UNIVERSITY FINANCIAL ASSISTANCE PROGRAMS

Sacred Heart University's personal approach and strong commitment to financial aid helps our students achieve their educational goals. To provide further access to families as they invest in a Sacred Heart University education, a variety of university financial assistance programs have been designed which recognize students' academic and extracurricular achievements as well as the financial needs of our families.

Merit Scholarship Programs

All new students are considered for merit scholarships as part of the admission application review process (a separate scholarship application is not required). Merit scholarships are awarded by the Scholarship Review Committee and are based on the review of each student's high school transcript, class rank and extracurricular achievements. Course selection and overall grade point average are weighed heavily in the review process. Sacred Heart University's Test-Optional Admissions Policy does apply to the review for merit scholarships. However, if candidates feel their test scores provide further evidence of academic ability and potential, or to be considered for the honors program, they may wish to submit them to the Office of Undergraduate Admission. Merit scholarships are renewable for four years (eight semesters) of full-time undergraduate study provided the student maintains the required cumulative GPA established for their specific scholarship. Merit scholarships are only awarded at the time of admission. There should be no expectation that the amount will increase in subsequent years. Scholarships are limited and offered on a first-come, first-served basis.

The merit scholarship categories include the following: President's Excellence Award, Trustee Scholarship, College Scholarship and Conley Award ranging from \$7,000 to \$17,500.

Students who are accepted into the Honors Program are eligible to receive an additional Thomas More Honors Scholarship of \$2,000.

Students transferring to Sacred Heart University may be eligible for academic scholarships based on academic achievements at their previous post-secondary institutions. Programs include: Phi Theta Kappa, Transfer Achievement Award, and Connecticut Community College Scholarship.

Note: Scholarship programs, criteria, and amounts are subject to change.

Activity-Based Programs

Sacred Heart University offers activity-based grant and scholarship programs for full-time undergraduate students who participate in various student life programs on campus. Awards are based on level of activity and participation, and include programs such as Intercollegiate Athletics, Community Service, Pioneer Bands, University Choir, Theatre Arts, University Dance, Catholic Social Thought Scholars, Student Leadership, Undergraduate Research Assistants, Classroom Learning Assistants (CLA), Resident Assistants (RA), and others. Award ranges vary and annual renewal of these grants requires continued participation in the grant-awarding program.

Need-Based Programs

In our continued effort to assist families in their educational investment, Sacred Heart University offers need-based grants that provide students with affordability and access, through the Sacred Heart University Grant-In-Aid, Bishop Curtis Award, and Pioneer Grant programs. Consistent with our historical mission, the University has maintained its commitment to the surrounding area by offering the following:

Endowed Scholarships

Endowed scholarships established by private organizations, corporations, and individuals are offered in varying amounts to academically worthy students. At the time of publication of this catalog, the scholarships described therein were available. Awards are made at the discretion of the University as funds are available.

Alumni Association Endowed Scholarship Fund

Established for incoming or continuing full-time undergraduate students who demonstrate academic achievement, financial need, involvement, and leadership in community service and/or extra-curricular activities.

George I. Alden Trust Endowed Scholarship

A scholarship program for full-time undergraduate students who are economically disadvantaged, who have academic promise, who possess certain characteristics known to correlate with success at Sacred Heart University, and for whom this University can "open doors." Indicators for success at the University include such factors as academic performance in high school, extracurricular activities, leadership qualities, and the ability to engage in University activities (e.g. through athletics, community service, or other student activities). This endowed scholarship program was made possible by the generous support of the George I. Alden Trust.

Julius Andrasi Memorial Scholarship

Preference is given to students interested in the theatrical field or related fields of writing and media studies. The award was established in honor of Julius Andrasi, a deceased member of the class of 1969.

Dorothy I. Anger Scholarship

Dorothy Anger, deceased director of alumni relations and student activities, founded the Gold Key Club, an organization whose members represent the University at its events.

Michael Arnold Memorial Scholarship

Established in 1994 in memory of Michael Arnold, deceased director of the Stamford Campus at Sacred Heart University, this award assists Bridgeport students who are pursuing pre-med or nursing studies.

John T. Balamaci Memorial Scholarship

Established in 1972 in honor of John T. Balamaci, an English major who died in his third year at Sacred Heart University, this award is given to a full-time student with a minimum 3.0 GPA and upon recommendation by an instructor.

Dr. Daniel T. Banks Scholarship

This award is given to a deserving student majoring in science. The recipient must have a minimum GPA of 3.0. Preference is given to students interested in a career in medicine. Dr. Banks was a prominent Bridgeport physician.

Arthur J. Brissette Memorial Scholarship

This scholarship, in memory of a deceased member of the University community, is available to undergraduates majoring in accounting or business. It is based on the student's academic excellence or financial need.

Stephen T. Bowers Endowed Scholarship

To support two senior students who have a desire to enter clinical practice in cardiology.

John W. Brookes Memorial Scholarship

This is an award for any student who demonstrates academic excellence and financial need. The scholarship was established in the memory of Dr. John W. Brookes, a member of the math and computer science faculty at Sacred Heart University.

Scott Browning Memorial Scholarship

This scholarship was established by James Browning and his family in memory of his brother Scott Browning and their parents, George and Judy Browning. Preference is given to a full-time undergraduate student majoring in computer science and/or a qualified incoming freshman from Notre Dame High School in Fairfield, Connecticut, or another Catholic high school in the Diocese of Bridgeport. Candidates may be full-time students experiencing hardship.

Bullard Scholarship

This scholarship, established by the Bullard Company, is given to a full-time business major.

Lou Cerminara Memorial Endowed Scholarship

Established in 2002 by the family of Lou Cerminara, deceased member of the University's Public Safety staff, this scholarship benefits "solid" students exhibiting the potential to excel. Recipients will demonstrate community service and/or student life involvement. Preference is given, but not limited, to candidates who are Criminal Justice majors. Preference is given, but not limited, to candidates of Italian-American heritage. Candidates must be Connecticut residents who have financial need or special circumstances.

Philip and Anne Cernera Endowed Scholarship Fund

Established in honor of Philip and Anne Cernera, this scholarship provides support to students who are active in the Campus Ministry Program, are academically qualified and demonstrate financial need.

Ruth and Anthony Cernera Scholarship

This scholarship honors Dr. and Mrs. Cernera and is endowed by Michael C. Dailey '75, University alumnus and former member of the University's Board of Trustees. The objective is to identify full-time undergraduate students who are economically disadvantaged, who have academic promise, who possess certain characteristics known to correlate with success at Sacred Heart University, and for whom the University can

"open doors." Awards are made from the yield of the fund according to the University spending policy.

Class of 1994 Endowment

This scholarship, founded by the senior class of 1994, is designed to recognize a student entering his or her senior year who has made contributions through community service.

Alvin T. Clinkscales Endowed Scholarship

Created in memory of Mr. Alvin Clinkscales who was a key administrator in the areas of student life, particularly in student financial assistance and athletics.

Evelyn M. Conley Scholarship Fund for the Study of Law

This award, made annually, provides one scholarship to a student (full-time or part-time) in his or her senior year at Sacred Heart University, who has applied to and has been accepted at a law school. The award is based solely on academic achievement. Financial consideration will only be applied if more than one qualified candidate exists. This award, founded to honor the memory of Evelyn Conley, wife of former University President William Conley, was established by Mrs. Karin Douglas '84.

Patricia H. Cook Endowment Scholarship

Established to recognize and honor Patricia Hemenway Cook, this scholarship supports students enrolled in the performing arts programs.

Bishop Curtis Scholarship Fund

Established to honor the University's founder, Bishop Walter Curtis, and provides need-based scholarships for undergraduate students.

Mary M. Donahue Scholarship

This award, established by Donald J. Donahue in memory of his wife, supports deserving minority students.

Kaitlyn Doorhy Scholarship

Provides scholarship support to a student resembling the qualities and characteristics of Kaitlyn Doorhy, a student who tragically passed away at the start of her junior year in 2014. Candidates must be a continuing undergraduate student enrolled full-time in the University, be a student entering his/her junior year, demonstrate financial need, and be a resident of Long Island, NY.

Charles T. Eby Memorial Scholarship

This award, given to a full-time history major entering senior year, requires high academic standing. The scholarship is in memory of Charles T. Eby, an associate professor of history at the time of his death.

Douglas Edwards Memorial Scholarship

Established in memory of renowned newscaster Douglas Edwards, this scholarship is awarded to students majoring in media studies or broadcast journalism.

Jonathan T. Evanish Scholarship

This scholarship provides support for a deserving nursing student.

Isabelle T. Farrington Endowed Scholarships

Established in 2002 by Mrs. Isabelle Farrington, this scholarship is available to a student in the junior or senior class who, during the previous year, demonstrated (1) superior academic performance and potential by ranking in the top 10 percent of his or her class, and (2) a sincere interest in, and practice of, the principles of citizenship and religion for which Sacred Heart University has been established as a Catholic university.

Babu George Endowed Scholarship

A scholarship program for full-time undergraduate chemistry majors, in memory of Professor of Chemistry, Dr. Babu George, who was a long-time faculty member and Chair of the Chemistry Department.

Cathy Goodale Endowed Scholarship

To support an incoming or continuing full-time undergraduate student that demonstrates a financial need and medical hardship as a result of cystic fibrosis.

iFun "Incidental Fund for Undergraduate Nursing"

This fund provides monetary support for undergraduate nursing students for small but essential necessities, to allow them to continue in the program.

Julia Sugrue Gorman Memorial Scholarship

Established in 2002 by the generosity of alumnae Maureen Gorman '68 and Kathleen Gorman Crapanzano '68 in honor of their mother, the scholarship assists students with a solid academic record who demonstrate community service and/or student-life involvement.

Hans J. Gram Endowed Scholarship

Founded to honor Hans J. Gram, this scholarship provides financial assistance to academically promising students.

Gary Hanna Memorial Scholarship

Established in 2001, this scholarship memorializes Gary Hanna, deceased member of the class of 1974. It will benefit entering freshmen from Westhill High School in Stamford showing a high school senior year GPA of at least 3.0.

Preference is given to candidates of Lebanese or Lebanese-American descent. Candidates must be from a Christian background.

Alexander Hawley Memorial Scholarship

This award is made in memory of Alexander Hawley, a long-time trustee and honorary degree recipient at Sacred Heart University.

William Randolph Hearst Endowed Scholarship

A scholarship program for full-time undergraduate students with need. Its purpose is to help economically-disadvantaged, underserved students to gain access to a quality education. This endowed scholarship program was made possible by the generous support of the William Randolph Hearst Foundation.

Eric Hernandez '05 Memorial Scholarship

Established in 2006 by his family, friends and teammates, this scholarship honors Eric Hernandez '05, deceased alumnus and former member of the University's football team. It will be given to a qualified member of the football team who, as a student-athlete, has demonstrated Eric's qualities of sportsmanship, leadership, and love of the game of football. Eric Hernandez was a member of the 2001 1-AA Mid-Major National Champions team that completed an undefeated 11-0 season. He went on to star on the New York Police Department Football Team.

Joan M. Heybruck Community Service Scholarship

Awards scholarships to junior or senior students majoring in social work, have a 3.0 GPA, and demonstrate engagement in community service.

Anne S. Jandrisevits Scholarship

Provides scholarship support to students based on demonstrated financial need.

James Joy Scholarship

Established through the estate of James Joy, this award is made to a deserving student with financial need.

James River Corporation Scholarship

Established by the James River Corporation of Norwalk, this award assists minority students.

John Katona Memorial Scholarship

This scholarship was established in memory of John "Chubby" Katona, a former employee of the University.

Keating Family Scholarship

Established by the estate of Loretta M. Keating of Bridgeport, this scholarship is awarded to deserving students with financial need.

John J. And Stella M. Kraieski Memorial Scholarship

Awarded to an academically talented student, the scholarship was established by an estate gift of John Kraieski.

L. Dennis and Kimberly Kozlowski Scholarship

To be eligible the candidate must demonstrate financial need, must maintain a minimum 3.0 GPA throughout their enrollment at SHU and must be a Business School Major

Laborer's Local 665 Scholarship

Founded by Laborer's Local 665 in Bridgeport, Connecticut, this scholarship is given to full-time undergraduate students at Sacred Heart University who are members of Local 665 and/or the sons or daughters of members.

Dorothy P. Lansdale Scholarship

This award is given to a nursing student who demonstrates outstanding academic and professional abilities.

Cynthia Jean Lynch Endowed Scholarship

Established by Betty S. Lynch, in memory of her daughter, Cynthia Jean Lynch, the fund provides assistance to students enrolled in the College of Arts and Sciences who are declared Criminal Justice majors and who demonstrate academic achievement and financial need.

Stephen and Mary Marcinko Fund

Established by an estate gift in 2002, this fund will benefit Slovak American or native Slovak students at Sacred Heart University showing the highest standard in scholarship and leadership.

La Flor Silvestre: The M. Theresa Martinez Endowed Scholarship

Established to recognize and honor deceased alumna M. Theresa Martinez's commitment to making a difference in the lives of others. The recipient must be Hispanic female, must maintain at least a 3.0 GPA, shall major in the Arts & Sciences, Education, or Health Professions. Shall engage in meaningful community service. Must show financial need and will receive a letter of recommendation by the committee formed to represent the donors to the fund and family of M. Theresa Martinez.

Frank and Marisa Martire Endowed Scholarship

To provide scholarship support to encourage and assist a well-qualified student from the city of Bridgeport or Fairfield County or for a student that comes from an underprivileged background. A candidate must be a continuing undergraduate student enrolled full-time in the University. It is preferred that the student be a rising sophomore, demonstrate a 3.5 GPA and demonstrate financial need.

Mechanics & Farmers Scholarship

Established in 1971, this scholarship is awarded to an academically talented full-time student.

Lucy Medaglia Memorial Scholarship

This scholarship, established by former University President Anthony J. Cernera in memory of his grandmother, supports students preparing to be teachers.

Beatrice T. Pace Endowed Scholarship

Established through the estate of Ms. Pace, the scholarship provides aid for students who are in the top ten percent of their class and demonstrate financial need.

Thomas P. Melady Leadership Award

Established in honor of Thomas P. Melady, fifth president of Sacred Heart University, this award is given to full-time students through the Presidential Internship Program. Recipients must demonstrate leadership, academic potential, and community involvement.

Harold and Ann Miller Scholarship

Established in 1988 by Harold and Ann Miller, this award is given to adult undergraduate, part-time students who have completed at least two semesters at the University and have demonstrated financial need.

Mucerino Family Endowed Scholarship

To provide scholarship support to encourage and assist well-qualified, promising students within the University. To be eligible the candidate

must demonstrate financial need, and must maintain a minimum 3.0 GPA throughout his or her enrollment at SHU.

Near and Far Aid Association Scholarship

Established by the Near and Far Aid Association, this scholarship supports a full-time female student with a cumulative average of 3.0. Instructor's recommendation and demonstrated financial need are necessary for consideration of award.

Sandra Lynn Nobili Memorial Scholarship

This award is given to a Catholic student entering senior year and planning a career in elementary education. Selected by members of the Education Department, the recipient must have a cumulative average of 3.0 or better.

Oaklawn Foundation Endowed Scholarship

A scholarship program for full-time undergraduate students who have a demonstrated record of and commitment to community service. This endowed scholarship program was made possible by the generous support of the Oaklawn Foundation.

William P. O'Boy Family Scholarship

This scholarship is given to a deserving student with financial need. Preference is given to students from the Danbury-Bethel area.

Dr. Margaret Palliser Endowment for Physical Therapy

This endowment was established in 2001 by Mrs. Karin Douglas '84 to fund Physical Therapy Scholarships and Special Projects. The fund has been set up to honor Dr. Margaret Palliser, former University Assistant Vice President for Mission.

Michael J. Passariello Scholarship

Recipients of this scholarship, given by Mrs. Ann Passariello in memory of her son Michael, a member of Sacred Heart University's alumni, are selected through demonstrated past performance showing that they are capable of succeeding at the University. Preference is given to qualified parishioners of Holy Infant Church in Orange, Connecticut, or residents of the town of Orange.

Robert M. Paul Scholarship

Recipients of this scholarship, given by Mr. and Mrs. William H. Paul of Trumbull in memory of their son, Robert, are selected on scholastic achievement and demonstrated financial need. Candidates must be full-time undergraduate students, Diocese of Bridgeport Catholic High School graduates, and/or experiencing hardship.

Arianna S. Petillo Endowed Scholarship

To provide scholarship support for a female undergraduate student enrolled full-time in the University's Welch College of Business.

Elizabeth M. Pfriem Scholarship

Mrs. Elizabeth M. Pfriem has established this scholarship to benefit qualified students from the inner-city schools of Bridgeport, Connecticut.

Bette Pinder Memorial Scholarship

This award, in memory of former staff member Bette Pinder, is given to an incoming freshman from the greater Bridgeport area who demonstrates financial need.

Charles Plohn Art Scholarship

Established in memory of Charles Plohn, this award is given to an art major above the freshman level who has completed a minimum of 12 credit hours of art studio courses and has a GPA of 3.0 or better.

Polish Studies Scholarship Awards

These awards are made to students who have studied Polish for at least one semester and are continuing their studies in this area. Recipients must have a grade of B or better.

Professor Camille P. Reale Family Endowed Scholarship

To provide scholarship support to encourage and assist well-qualified, promising students within the University.

Petralia Family Scholarship

To be awarded to a female student that demonstrates financial need, entered SHU with a minimum 3.0 GPA from high school, maintains a minimum 3.0 GPA throughout enrollment at SHU. Preferred if candidate is a minority.

William V. Roberti Scholarship

Established by the Tom James Company in honor of William V. Roberti, a former University Trustee, this scholarship is given to children and grandchildren of employees of the Tom James Company and its subsidiaries and the Southwestern Company.

Jeannette Rohn Scholarship

Established in 1988 by Jeannette Rohn, this award is given to an outstanding student majoring in finance with great financial need.

John Rycenga Scholarship

Named in memory of John Rycenga, the University's first chairman of the English Department, this award is given to an English major entering senior year. The recipient must demonstrate academic excellence with a GPA of 3.4 or better, and an exemplary character. English Department faculty select qualified recipients.

Earl and Eloise Savage Endowment Fund

Established to provide financial support to students with cognitive limitations.

Leonard A. Schine Memorial Scholarship

Established in 1982 in memory of Leonard A. Schine, a former University trustee, this annual award is given to a full-time senior with superior grades in need of financial assistance.

Robert Sendar Scholarship

This scholarship was established by the family of Robert M. Sendar in his memory. Robert was a student at Sacred Heart University majoring in chemistry. The recipient, chosen by a team of three Chemistry Department faculty members, must be a chemistry major at the second-

year level or higher who has demonstrated academic achievement and financial need.

Anthony Scaramucci Scholarship

Provides scholarship support for a full-time incoming or undergrad student enrolled in The Welch College of Business. Must maintain 3.0 or better, demonstrate financial need, and have an interest in Finance.

SNET Scholarship

Awarded to deserving students.

Anthony Spetrino Scholarships

Established by Anthony Spetrino, this scholarship is awarded to an outstanding student in each of the three romance languages: French, Spanish, and Italian.

Tomassetti Family Endowed Scholarship

The purpose of the fund is to support the University by providing scholarship support to encourage and assist well-qualified, promising students within the University.

Carmen Tortora Scholarship

Awarded to a deserving nursing student.

Michael Tyll Family Endowed Scholarship

Established to provide support to a full-time undergraduate student enrolled in the WCOB who is a men's hockey student athlete accruing a 3.0 graduating high school.

George Joseph Voynick Scholarship

This scholarship, established by Irene M. Voynick and her family in memory of her father, is awarded to a deserving full-time student, majoring in the basic sciences and maintaining a B average or better.

John F. Welch Endowed Scholarship

Established to provide scholarships to full-time undergraduate students enrolled in the Jack Welch College of Business with demonstrated academic achievement and financial need.

Jill Wright Scholarship

This scholarship, bequeathed to the University through the trust of William R. Wright to honor the memory of Jill Wright, his deceased wife, benefits a qualified graduating senior at Central High School who will matriculate as part of Sacred Heart University's entering freshmen class.

Jack Chaves Scholarship

Established by the Chaves-Ferreira family to honor its patriarch, Jack Chaves, this scholarship is for full-time undergraduate students who exemplify the University's core value and mission through a commitment to helping others. Candidates must maintain an overall cumulative GPA of at least 2.5 and must demonstrate financial need.

Men's Volleyball Endowed Scholarship

Candidates must be an incoming or continuing undergraduate student enrolled full-time, a varsity athlete on the men's volleyball team, demonstrate academic achievement and maintain a GPA of 3.0.

Luxembourg Student Scholarship

The purpose of the fund is to support the University by providing scholarship support for University students enrolled in the Graduate Program in Luxembourg.

CT Challenge Chris Cook Scholarship

The CT Challenge "Chris Cook" Endowed Scholarship for Cancer Survivors was created in 2016 in memory of Chris Cook, who passed away on April 14, 2014 after battling cancer heroically for two years. Chris is the son of Don Cook, Athletic Director Emeritus of Sacred Heart University. Chris was a former college athlete, an accomplished corporate vice-president, and a loving husband and father. His story was one of hope aligned with a special brand of courage and determination. This scholarship is awarded to students who are cancer survivors or currently battling cancer.

Lisa Powell Memorial Endowed Scholarship

Scholarship to aid a full time undergraduate female student enrolled in the Welch College of Business and minoring in Entrepreneurship

Thomas V. Forget Scholarship

This scholarship is awarded to an incoming freshmen (full-time, undergraduate) in the Isabelle Farrington College of Education. The deserving student must demonstrate financial need and would be unable to attend Sacred Heart University without scholarship assistance.

Lisa Moray Endowed Scholarship

The Lisa M. Moray Endowed Scholarship was established in 2012 in memory of Lisa Moray. This scholarship supports a student who shows academic promise, demonstrates financial need, and is a current member of a women's varsity sports team at SHU.

Audrey Niblo Endowment Fund

This Fund will support SHU student(s) in Audrey's likeness and causes for which she was passionate. Audrey was deeply immersed in University life as journalist for The Spectrum student newspaper and Her Campus, a deeply committed member of the Theta Phi Alpha sorority and a perpetual advocate for the goodness in all. Audrey's spirit was woven intricately into the fabric of the Sacred Heart mission. She embraced life with tremendous fortitude and compassion for others. Her bravery, tireless diligence and kind soul touched the lives of everyone who was fortunate enough to have come in contact with her. Audrey was a great friend; she valued others fervently, stood up passionately for what she believed and would go to the ends of the earth to help others. The Audrey Niblo Fund will honor Audrey by bringing attention to the issues and the voices that Audrey championed in her life.

Kemperle Family Scholarship

Provides scholarship support to encourage and assist well-qualified, promising students within the University. Eligible candidates must demonstrate financial need and maintain a minimum 3.0 GPA throughout their enrollment at Sacred Heart University.

Prof. Gary L. Rose Family Scholarship

Provides scholarship support to an undergraduate political science major with demonstrated financial need.

Dr. Thomas G. Pepe Scholarship Fund

The Dr. Thomas J. Pepe Scholarship honors the memory of Thomas Pepe, deceased former Chair of the Department of Education. This is a merit based program conducted through the Department of Education.

Joseph T. & Julie F. Kasper Scholarship

The Joseph and Julia Kasper Scholarship was established by Joseph T. Kasper, Jr. in honor of his parents, Joseph T. Kasper Sr. and Julia Flanagan Kasper. This scholarship supports full-time, undergraduate students from the Greater Bridgeport Area that demonstrate scholastic achievement, financial need, and an above-average willingness to work hard and diligently.

Degrees and Curricula

The goal of Sacred Heart University is to provide an educational experience that will foster the development of the whole person who is:

- Knowledgeable and educated—able to know, understand, judge, reason, analyze, synthesize, discern, appreciate, value, and communicate;
- Intellectually and professionally prepared to take their place as citizens, professionals, and leaders in an ever-changing global world;
- Rooted in faith and who recognizes faith's relevance to human experience;
- Compassionate in heart and who possesses a moral framework that recognizes the freedom and dignity of every human person and the importance of a just society.

Baccalaureate Degrees

At the undergraduate level, Sacred Heart University offers two baccalaureate degrees: Bachelor of Arts (BA) or Bachelor of Science (BS) depending upon the nature of the discipline of the major. The University offers over 40 majors and 54 minors.

All candidates for the baccalaureate degree must complete at least 120 credits, with a minimum of 30 credits taken at Sacred Heart University. A minimum cumulative grade point average (GPA) of 2.0 is required. In addition, a minimum GPA of 2.0 is required in the major field of study.

The University Core Curriculum

A central component of undergraduate study is the University's Core Curriculum, which embodies the University's commitment to academic excellence, social responsibility, ethical awareness, and the Catholic Intellectual Tradition. Consistent with its mission, Sacred Heart University provides its students with a core curriculum that is rooted in the Catholic Intellectual Tradition and liberal arts. The core curriculum is:

- Fundamental to becoming a knowledgeable, educated, and ethically responsible person;
- Foundational to studies in the major and to lifelong learning; and
- Essential preparation for personal and professional success in a global and ever-changing world.

Structure of the University Core Curriculum

The Core Curriculum is composed of three components:

- Foundational Core (30 credits)
- Common Core: The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition (6 credits)
- Liberal Arts Explorations (9 credits)

I. FOUNDATIONAL CORE (30 CREDITS)

The Foundational Core provides students with a broad liberal arts education which includes the development of written and oral communication, critical thinking, information literacy, and mathematical skills that are necessary for academic and professional success.

FYS 125 (p. 198)* First Year Seminar (3 credits)

CTL 125 (p. 177) Critical Thinking (3 credits)

Arts/Design/Communications/Foreign Languages (3 credits)

History - HI 100 (p. 199) or HI 102 (p. 200) (3 credits)

Literature (3 credits)

College-level Mathematics (3 credits)

Natural/Physical Sciences (3 credits)

Philosophy (3 credits)

Social or Behavioral Sciences (3 credits)

Theology/Religious Studies (3 credits)

* A minimum grade of C or better is required.

Foundational Core Courses

Courses that fulfill the Foundational Core may be located at the following website: <https://www.sacredheart.edu/offices--departments-directory/registrar/major-checksheets/>. The course list may change in subsequent years. Students should consult with their advisor to ensure that they select the appropriate courses for the Foundational Core.

II. COMMON CORE: THE HUMAN JOURNEY SEMINARS: GREAT BOOKS IN THE CATHOLIC INTELLECTUAL TRADITION (6 CREDITS)

Sacred Heart University's academic signature centerpiece, The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition are a direct reflection of the University's Mission. These seminars provide students with an interdisciplinary understanding of the roots and development of the Catholic Intellectual tradition as an ongoing 2,000-year conversation between the Catholic community of thinkers, writers, and artists and the cultures in which they have lived, asking fundamental questions about God, humanity, society, and nature. These seminars engage students in explorations of the claims of the Tradition and enjoin students in seminar discussion asking students to reflect on how these texts and ideas relate to their own lives and the world in which they live. The seminars help develop students' critical thinking, reading, writing, and speaking skills.

The seminars are framed by four fundamental and enduring questions of human meaning and value:

- What does it mean to be human?
- What does it mean to live a life of meaning and purpose?
- What does it mean to understand and appreciate the natural world?
- What does it mean to forge a more just society for the common good?

The two seminars are:

CIT I 201: An interdisciplinary study of the early Catholic thinkers, writers, and artists who provide an understanding of the roots of this Tradition and who begin its ongoing conversation about fundamental questions of human existence. (classical period to 17th century.)

CIT II 202: An interdisciplinary study of modern Catholic thinkers, writers, and artists who continue the development of this ongoing conversation about God, humanity, society, and nature. (modern and contemporary periods.)

III. LIBERAL ARTS EXPLORATION (9 CREDITS)

This part of the Core will more fully immerse students in different facets of the liberal arts, so that they will come away with deeper knowledge and a greater ability to be critical and independent thinkers.

Humanistic Inquiry

In these course, students will examine and explore human nature and human experience in different eras and cultures. Students will critically examine and reflect upon fundamental concerns, issues, and topics related to the human condition, as represented by influential thinkers, writers, artists, and scientists. Students will be required to write a minimum of 500 words (1000 total) doing at least two of the following: 1.) examining issues related to human experience and expression; 2.) analyzing aspects of individual identity, including values, beliefs, and behaviors; 3.) using critical reflection to better understand ourselves and each other. (3 credits)

Social and Global Awareness

This area asks that students become more informed about and engaged with the world around them. It aims to provide students with the tools and the insight that will make them responsible citizens. Students will be asked to bring critical reflection, empathy, and a respect for cultural diversity to bear on social problems and real-world issues. Students will be required to write a minimum of 500 words (1000 total) doing at least two of the following: 1.) analyzing historical or contemporary perspectives on issues related to human society and organization, including a diversity of cultures; 2.) using that knowledge to compare solutions to complex problems; and 3.) exploring ethical modes of citizenship and collective action on local and global scales. (3 credits)

Scientific Literacy

Scientific literacy is the ability to describe, explain, and predict natural phenomena and the knowledge and understanding of scientific concepts and processes required for personal decision making and living in and making contributions to the human community. These courses allow students to develop the ability to assess the quality of scientific information, to pose and evaluate arguments based on evidence, and to apply the principles of scientific inquiry to make and communicate reasoned and ethical judgments about the role of science in individuals' lives, communities, and the world. Students will be required to write a minimum of 500 words (1000 total) doing at least two of the following: 1.) explaining the scientific method and its related processes; 2.) using appropriate data or evidence to weigh competing claims, especially those of concern to informed citizens; and 3.) identifying the aims and limits of scientific inquiry and reasoning. (3 credits)

Students must take one course from each area for a total of 9 credits.

Courses that fulfill the Liberal Arts Explorations component of the core curriculum may be located at the following website: www.sacredheart.edu/officeservices/registrar/majorchecksheets.

The course lists may change in subsequent years. Students should consult with their advisor to ensure that they select the appropriate courses for the Liberal Arts Explorations component of the core curriculum.

The Major Field (30–58 credits)

The major provides the student an area of specialty as preparation for a career or as a foundation for graduate study.

Several baccalaureate majors offer multiple specialization programs. One half of the credits for the student's major must be completed at Sacred Heart University. Sacred Heart University offers the following baccalaureate major programs, with concentration options listed after the major:

A minimum GPA of 2.0 is required for the major with no individual course grade below a C.

College of Arts and Sciences

- Art & Design: General Art for Education; Graphic Design; Illustration; Studio Art
- Biology
- Biochemistry
- Chemistry
- Coastal & Marine Science
- Communication Studies: Advertising & Public Relations; Sports Communication
- Criminal Justice
- Digital Communications
- English: Literature; Writing
- General Studies
- Global Studies
- History
- Mathematics
- Media Arts: Film, Television, & Media; Journalism; Performing Arts
- Molecular & Cellular Biology
- Neuroscience
- Philosophy
- Political Science
- Psychology
- Social Work
- Sociology
- Spanish

- Sports Communication & Media
- STEM
- Strategic Communication, Public Relations & Advertising
- Theatre Arts: Acting; Musical Theatre
- Theology & Religious Studies

Isabelle Farrington College of Education

Undergraduates who are interested in becoming teachers apply to the five-year program during sophomore year. They select a major in the content area in the College of Arts and Sciences (or major in Interdisciplinary Studies), take courses in the Farrington College of Education during their sophomore, junior, and senior years, and complete teacher certification requirements (including student teaching) and a Master of Arts in Teaching degree during a fifth year.

- Interdisciplinary Studies

Jack Welch College of Business

- Accounting
- Business Economics
- Computer Engineering
- Computer Science
- Cybersecurity
- Finance
- Game Design and Development
- Hotel, Resort and Tourism Management
- Information Technology
- Management
- Marketing
- Sport Management

College of Health Professions

- Exercise Science
- Health Science

College of Nursing

- Nursing (4 year)
- Nursing RN-BSN
- Nursing RN-MSN

Electives (0–36 credits)

Electives are courses offered by the University in subject areas that interest the student. Electives should be selected in consultation with the student's academic advisor.

Students majoring in any discipline may also elect courses in the following pre- professional areas: Pre-Law, Pre-Medical/Pre-Dental, Pre-Occupational Therapy, Pre-Optometry, Pre-Physical Therapy, Pre-Speech-Language Pathology, and Pre-Veterinary. Qualified students may also elect courses in the Thomas More Honors Program or in Education. These are explained in the Academic Enhancement Programs chapter in this catalog.

No more than 8 credits in Applied Music may be used for free electives.

Minor Programs

In addition to a major, the student may choose an optional minor program from the following:

College of Arts and Sciences

- Actuarial Science
- Advertising Media/Public Relations
- American History
- Anthropology
- Biology
- Catholic Studies
- Chemistry
- Creative Writing
- Criminal Justice
- Dance
- Digital Communication
- English
- eSports
- European Studies
- Film & Television
- Global Studies
- Graphic Design
- History
- Thomas More Honors
- Human Rights & Social Justice
- Illustration
- Irish Studies
- Italian
- Journalism
- Latin American Studies
- Mathematics

- Middle Eastern Studies
- Music (Academic Program)
- Philosophy
- Political Science
- Professional Writing
- Psychology
- Sociology
- Social Work
- Spanish
- Sports Media
- Studio Art
- Theatre Arts
- Theology & Religious Studies
- Women's, Gender & Sexuality Studies

Jack Welch College of Business

- Accounting
- Business Computer Engineering
- Business Economics
- Computer Science
- Cybersecurity
- Digital Marketing
- eSports
- Fashion Marketing and Merchandising
- Game & Design Development
- Global Business Management
- Human Resource Management
- Information Technology
- Management
- Marketing
- Small Business Management and Entrepreneurship
- Sport Management

College of Health Professions

- Geriatric Health and Wellness
- Global Health
- Health Science
- Pre-Speech-Language Pathology

Students will be eligible to receive a second baccalaureate degree from Sacred Heart University, with a major other than that obtained with their first degree, if they meet the following criteria:

- They will have fulfilled the requirements of the second degree and major.
- They will have completed at least 30 credits at Sacred Heart University after the date of the first degree.
- That up to 90 credits of the first degree can be used toward the fulfillment of the new degree/major.

Policy on Awarding of Second Baccalaureate Degree

Academic Enhancement Programs

Academic Advising

At Sacred Heart University, academic advising is an integral part of a student's education, and regular meetings with an academic advisor should be an important feature of a student's time at the University. Each College coordinates academic advising for all first-year students; advising for incoming transfer students is coordinated by a representative from the student's chosen college. Once a student officially declares a major by completing our Major Declaration Form, he or she will receive a faculty advisor in the appropriate major discipline. Academic advisors not only assist students with course, program, and scheduling selection, but also provide the guidance and support needed to assist students in exploring personal and professional goals. It is important that students meet regularly with their academic advisors.

Thomas More Honors Program

The Honors Program is home to some of the University's brightest and most committed students. Honors courses are rigorous but also highly student directed, in that students are given greater latitude in selecting readings and designing assignments and, in general, are invited to take active responsibility for what they are learning.

The limited size of the University's program and the number of course offerings means that honors students receive highly individualized instruction. Since the best learning can sometimes take place outside the classroom, the program coordinates and funds opportunities every semester to travel as a group to off-campus cultural events and provides a stipend for students who study abroad.

The mission of the students in the Honors Program is to serve as leaders in the intellectual, cultural, and spiritual life of the University. In this way, honors students can themselves become leaders and active learners. For more information, visit the Honors Program website.

Independent Study and Individualized Instruction

Independent study is available for the qualified student who wants more advanced or specialized work in a given academic area. A faculty member guides the student in the reading and/or research needed for the study. Only the student who has officially declared a major and who has successfully completed at least 15 credits will be able to enroll. A maximum of 6 credits of independent study or individualized instruction is permitted toward the baccalaureate degree. Independent study requires a packet approved by the advisor, instructor, department chair, and dean.

Individualized instruction under the guidance of a faculty member is available for the student who needs a specific course to fulfill degree requirements but is unable to schedule the course for a valid reason (e.g., involvement in student teaching, field experience, or unavailability of the course). The syllabus for individual instruction conforms to the usual requirements, including required assignments, for that course. Ordinarily, no student will be permitted to take more than one

individualized course per semester and more than two individualized courses to fulfill degree requirements.

Internships and Co-Ops

Sacred Heart University embraces the concept of experiential learning as a way of supplementing the classroom experience, exploring different career paths, and enhancing the student's marketability when seeking post-graduate employment.

Internships may be paid or unpaid and can be completed by the student for academic credit. The length of the internship and the number of credits awarded vary and are up to the discretion of the academic department or vary based on academic department requirements. A typical internship will last for one semester or in the summer and will involve an average of 10-12 hours per week. Students also have the opportunity to complete their internship on campus through Sacred Heart University's newly established co-working space, the iHub powered by Verizon, where businesses can collaborate with students and faculty through internships, team projects and other experiential learning programs.

The student works with his or her faculty advisor to gain approval for the content of an internship or co-op and to determine the number of credits that will be awarded. The student must also complete the required documentation from the Office of the Registrar. The Center for Career & Professional Development assists the student in locating an appropriate experience.

Experiential learning opportunities are available across all industry sectors. Students interested in these programs should consult their faculty advisor as well as the Center for Career and Professional Development.

Professional Programs

Sacred Heart University offers pre-professional advising in Pre-Dental, Pre-Law, Pre-Medical, Pre-Optometry, Pre-Occupational Therapy, Pre-Physical Therapy, Pre-Pharmacy, Pre-Physician Assistant Studies, Pre-Speech-Language Pathology, and Pre-Veterinary.

PRE-LAW PROGRAM

There is no prescribed Pre-Law major or academic curriculum for admission to law school. Students interested in attending law school are advised, however, to secure a strong foundation in the liberal arts. Excellent writing, research, and critical thinking skills are essential competencies for gaining admission to law school and for completing the requirements of a rigorous law school curriculum. Such skills are also conducive to the practice of law. Pre-law students are encouraged to join the university's Pre-Law Club and to meet periodically with the Pre-Law advisor to discuss course selection and the law school application process. Experience suggests that a respectable score on the Law School Admissions Test (LSAT), a strong academic performance over the course of four years, excellent letters of recommendation, and interesting extra-curricular activity often result in a student's acceptance to law school.

PRE-HEALTH PROFESSIONS ADVISEMENT PROGRAM

The Pre-Health Professions advisement program services the needs of students seeking to pursue careers in dentistry, medicine, optometry, pharmacy, physician assistance, and veterinary medicine. The program provides academic advisement for a balanced curriculum in biology, chemistry, physics, English, humanities, mathematics, social sciences, and other prerequisites for specific areas of study required for acceptance into advanced professional programs. A seminar for the health professions is offered to assist students throughout their four years and is offered at the freshman/sophomore and junior/senior levels. The seminar reflects the level of student matriculation through the program and stage of the application process. Internships, shadowing, and research are integral to the program and planned with advisors.

at <https://studyabroad.sacredheart.edu/>. Students are encouraged to schedule advising appointments with the office.

PRE-OCCUPATIONAL THERAPY, PRE-PHYSICAL THERAPY, AND PRE-SPEECH-LANGUAGE PATHOLOGY PROGRAMS

For more information, please refer to the corresponding section under the College of Health Professions.

Study Abroad

Sacred Heart University offers a variety of study abroad programs around the world with programming that supports a broad range of educational, professional, and personal objectives. Choose from nearly 100 programs in over 30 countries, including our own Global Campuses located in Dingle, Ireland and Luxembourg City, Luxembourg. Students may attend a SHU program or a SHU-affiliated program. Courses completed may fulfill general education, elective, and/or major/minor requirements.

During the fall and/or spring semester, students may participate in a variety of study abroad opportunities provided by the Office of Global Affairs. Short-term programs over winter and summer terms are also available. Offered in multiple countries, short-term programs are taught by SHU faculty or offered in conjunction with SHU university partners and program providers abroad.

Applications are available on the SHU Study Abroad website and follow the general application cycles below:

- Winter and Spring programs: Applications open in July/August with a general application deadline* of October 1st.
- Summer program: Applications open in November with a general application deadline* of January 15th.
- Fall programs: Applications open in November/December with a general application* deadline of February 15th.

**Please note: Application deadlines may vary and can be found on individual program pages on the Study Abroad website.*

Federal and state financial assistance as well as Sacred Heart University grants may apply to SHU and SHU-affiliated semester study abroad programs. Specific program cost and scholarship information is located on the Study Abroad website.

For more information, contact the Office of Global Affairs at 203-396-8028 or locate programs online

Academic Standards, Policies, and Procedures

Notification of Rights Under FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

- **The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.** Students should submit to the registrar, dean, head of the academic department, or other appropriate official a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- **The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.** Students may ask the University to amend a record that they believe is inaccurate or misleading. A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and advise the student of his/her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
- **The right to provide written consent before the University discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.** One exception, which permits disclosure without consent, is the disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his/ her tasks. A school official has a legitimate educational interest if the official needs to review an education record to fulfill his/her professional responsibilities for the University.
- **The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA.** The name and address of the Office that administers FERPA is Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-5901.

ADDENDUM

As of January 3, 2012, the U.S. Department of Education's FERPA regulations expand the circumstances under which your education records and personally identifiable information (PII) contained in such records—including your Social Security Number, grades, or other private information—may be accessed without your consent. First, the U.S. Comptroller General, the U.S. Attorney General, the U.S. Secretary of Education, or state and local education authorities ("Federal and State Authorities") may allow access to your records and PII without your consent to any third party designated by a Federal or State Authority to evaluate a federal- or state-supported education program. The evaluation may relate to any program that is "principally engaged in the provision of education," such as early childhood education and job training, as well as any program that is administered by an education agency or institution. Second, Federal and State Authorities may allow access to your education records and PII without your consent to researchers performing certain types of studies, in certain cases even when we object to or do not request such research. Federal and State Authorities must obtain certain use-restriction and data security promises from the entities that they authorize to receive your PII, but the Authorities need not maintain direct control over such entities. In addition, in connection with Statewide Longitudinal Data Systems, State Authorities may collect, compile, permanently retain, and share without your consent PII from your education records, and they may track your participation in education and other programs by linking such PII to other personal information about you that they obtain from other Federal or State data sources, including workforce development, unemployment insurance, child welfare, juvenile justice, military service, and migrant student records systems.

Student Responsibility

Students are responsible to know and apply the University's academic policies and procedures. They are responsible for meeting deadlines as outlined in the academic calendar or in other sections of this publication. Students are responsible to know and apply graduation requirements in their major and should check their program evaluations on Web Advisor or Colleague Self-Service regularly. Questions should be addressed to the academic advisor or the Assistant Registrar for Graduation Services. Academic advisors can assist in understanding degree requirements and planning course selections but the primary responsibility for meeting these requirements rests with the student. Students are responsible for adhering to program-specific policies and procedures that may be more stringent than those outlined in the University's catalog. Students should refer to the College's or Department's Student Handbook.

Sacred Heart University Network Account and Official Communications

When students are enrolled at Sacred Heart University, a University network account is created. The student is required to activate the account and is thereby given access to online services including Sacred Heart University e-mail.

Official communication is directed to the student's University electronic mailbox. In some cases official communications may be delivered by U.S. mail or campus mail. Students are expected to access their e-mail regularly to stay abreast of important time-sensitive information.

Information on how to access Sacred Heart University's network is available from the University's website under MYSHU. Students must activate their Sacred Heart University network account and be registered to have access to course material and online applications.

Matriculation

Matriculation is an agreement with the University to a particular set of degree requirements. Full-time undergraduate students are automatically matriculated upon admission and fall under the degree requirements of the catalog of the year in which they first enrolled. Full-time students who are on an official leave of absence will maintain their matriculation status during the period of their leave (see policy under Interruption in Attendance).

Returning full-time students who have not attended the University for up to two consecutive major semesters (fall and spring or spring and fall) must apply for readmission and, if accepted, will be under the catalog in effect at the time of their readmission.

Part-time students who have not attended the University for more than 24 months are no longer considered matriculated and must apply for readmission through the Undergraduate Part-Time Admissions Office. Part-time students not yet admitted to the University must apply for matriculation after they earn 12 credits. After 12 credits of non-matriculated status, a part-time student will not be allowed to register unless they are admitted to the University through the Undergraduate Part-Time Admissions Office or appeal for one more additional semester while they complete their application.

Mandated Vaccination and Immunization Requirements

All students must be in compliance with state law before registering. For information regarding immunization requirements, contact the University's Health Services Office at 203-371-7838 or visit the Health Services webpage: www.sacredheart.edu/officeservices/wellnesscenter

Academic Year

The academic year consists of two major semesters. Courses are offered during the day, evenings, and on weekends. In addition to this traditional schedule, courses are offered throughout the year in varying course formats, such as accelerated course modules, intensive courses, and through online learning. Sacred Heart University uses the semester credit system of awarding credits. Lecture time for one semester credit is generally 50 minutes per week. For a laboratory course, a longer period of laboratory work is required for a semester credit. The calendar and important dates for the traditional semester and accelerated terms are posted on the University website.

Declaring a Major

Students are expected to declare a major as soon as possible and no later than the end of their sophomore year. The Office of Career Development offers workshops to assist undeclared students. To declare a major, students must fill out a Declaration of Major form available in

the Academic Departments and the Registrar's Office. Completed forms must be submitted to the academic department for the major. That office will assist in obtaining all appropriate signatures and assign an academic advisor. Freshmen and transfer students are admitted into a specific College as an undeclared major. A student who wants to switch their College should contact that College. Students who wish to change a major, add a second major, or make similar declarations should contact the appropriate academic departments. Minors can be added or dropped directly with the Registrar's office.

COMBINED PROGRAMS

Combined Program (Bachelor's/Master's) Process and Guidelines for Students

1. Undergraduate students declare a major by submitting a **Declaration of Major** form. When declaring a major, students can indicate an intention to subsequently enroll in a graduate degree program. Students are expected to declare a major as soon as possible and no later than the end of their sophomore year.
2. Undergraduate students interested in adding an intention to enroll in a graduate degree need to do so prior to their senior year by submitting a **Change/Add/Delete Major** form and adding the graduate program in which they intend to enroll. This form must be processed by the department of the undergraduate major and sent to the Registrar's Office.
3. Students must maintain the major's required GPA in order to remain in good academic standing in the combined program.
4. Undergraduate students that have formally indicated an intention to enroll in a graduate degree program may double-count up to six graduate-level "swing" credits towards their undergraduate degree. These are credits that are applied to both the bachelor's and master's degrees. When registering for the graduate "swing" courses during their senior year, students must complete the **Combined Program Course Registration Form** and submit it to the Registrar's Office. This will allow the courses to appear on the proper record, allow correct tuition to be charged, and will enable students to maintain their financial aid. Senior status required.
5. Once students file for final audit for the undergraduate degree, they must also file an application for the master's degree portion of the combined program with the Office of Graduate Admissions. Applicants that meet the minimum GPA requirement for the graduate degree program are guaranteed admission into the graduate program. All other application materials and requirements may be waived at the discretion of the graduate program director. Once students are admitted, the master's matriculation will be opened for the start term immediately after the last bachelor's degree term. Students will be charged graduate tuition and fees only after they are officially matriculated into the graduate degree program.

Class Attendance

Regular class attendance is expected of each student in every class. Instructors are encouraged to base a portion of the final grade on attendance. Excessive absence could result in failure of the course. Students should refer to the instructor's syllabus for the grading policy.

Undergraduate Attendance Policy, Fall 2020

As faculty, we know that COVID-19 presents unprecedented challenges to our campus community's physical and mental health. Generally speaking, students are expected to attend all class meetings, both in person and online. At the same time, it is understood that you may be asked to self-isolate or quarantine, or you may suffer from a health issue (physical or mental) associated with the virus over the course of the semester. These conditions may prevent you from attending in-person class meetings. If you miss a class, you should notify your instructor immediately. This is your responsibility. You are not required to provide a note documenting an illness from a health care professional during the Fall 2020 semester; however, students who need to miss more than two consecutive classes for any COVID-related issue must notify the Director of Community Standards and Student Conduct, Channing Vidal, whose office will then email relevant faculty and advisors about your absence so that accommodations can be made to help you continue to participate in your courses and complete the required coursework. Faculty are expected to be flexible, within reason, when making arrangements for missed work for health-related absences and/or isolation needs. Please refer to your College's and/or Program's Student Handbook for specific policies related to your particular major. Please note that the Nursing Student Guide and the SVC Student Guide supersede this policy.

Academic Integrity

THE MEANING OF ACADEMIC INTEGRITY

As an institution of higher learning, Sacred Heart University places special emphasis on academic integrity, which is a commitment to the fundamental values of honesty, trust, fairness, respect, and responsibility. Only when these values are widely respected and practiced by all members of the University—students, faculty, administrators, and staff—can the University maintain a culture that promotes free exploration of knowledge, constructive debate, genuine learning, effective research, fair assessment of student progress, and development of members' characters.

These aims of the University require that its members exercise mutual responsibilities. At its core, academic integrity is secured by a principled commitment to carry out these responsibilities, not by rules and penalties. Students and faculty should strive to create an academic environment that is honest, fair, and respectful of all. They do this by evaluating others' work fairly, by responding to others' ideas critically yet courteously, by respecting others' intellectual and physical property, and by nurturing the values of academic integrity in all contexts of University life.

Appropriate disciplinary action will be taken for violations of academic integrity, including plagiarism, cheating, any use of materials for an assignment or exam that is not permitted by the instructor, and theft or mutilation of intellectual materials or other University equipment. Faculty will assign failing grades for violations of the University's policy on academic integrity and students may immediately receive an F for a course in which they commit a violation. Violations of academic integrity are kept on file; second violations will bring additional sanctions, up to dismissal from the University. For any disciplinary action, the University affords the student the right of due process in an appeals procedure. All matriculated students will be provided with a full description of the University's standards for academic integrity, consequences for violations, and the appeals procedure.

MUTUAL RESPONSIBILITIES OF FACULTY AND STUDENTS

Sacred Heart University faculty have an ethical and professional obligation to take the following steps to promote academic integrity among students:

- Refer in course syllabi to the University's policy on academic integrity.
- Clearly explicate in course syllabi behaviors and actions that constitute academic dishonesty, especially those that may be specific to the assignments of the course.
- Clearly explicate in course syllabi consequences for violations of academic integrity.
- Reinforce these expectations and consequences periodically during the semester, such as when giving information for assignments.
- Model and, where appropriate, teach students those scholarly practices that embody academic integrity.
- Abide by this policy on academic integrity, including its reporting requirements.

Sacred Heart University students have the ethical obligation to take these steps to promote academic integrity among their peers:

- Act with integrity in all their coursework.
- Abide by this policy on academic integrity and any policies established by their professors and the department in which they are majoring.
- Refuse to share materials with peers for the purpose of cheating, or that they believe will be used for cheating.
- Take care with their own papers, tests, computer files, etc., lest these be stolen or appropriated by others.
- Notify the professor of a course if they become aware that any form of cheating or plagiarism has occurred.

Such notification is not dishonorable but maintains an academic environment in which all students are evaluated fairly for their work; it may also protect a student from a charge of dishonesty (if, for instance, the student's work was appropriated by another).

VIOLATIONS OF ACADEMIC INTEGRITY

Violations of Academic Integrity

Academic integrity can flourish only when members of the University voluntarily govern their personal behavior by high ethical standards. However, it is also crucial for the University to define the boundaries of ethical behavior and to prohibit attacks on the principles of academic integrity. Policies that govern faculty members' ethical responsibilities are treated in the Faculty Handbook. Students' ethical responsibilities are governed by the policy stated here. Departments and programs at the University may supplement this policy with additional guidelines and faculty members may specify additional guidelines in the syllabi for their classes. Students must adhere to such guidelines as well as to University-wide policy.

All Sacred Heart University students in all degree programs are prohibited from engaging in any of the following types of behavior.

Cheating

Forms of cheating include but are not limited to:

- Having unpermitted notes during any exam or quiz. Only materials that a professor explicitly instructs students that they may use during an examination are permitted.
- Copying from other students during any exam or quiz.
- Having unpermitted prior knowledge of any exam or quiz.
- Copying or rewriting any homework or lab assignment from another student, or borrowing information for such assignments with the intention of presenting that work as one's own.
- Using unpermitted materials or taking information from other students for a take-home exam. A take-home exam is an exam; therefore, it requires independent work. Students should follow the procedures given by the professor.

Note: These standards require independent work by a student, except for those contexts where professors have specified forms of permitted collaboration with other students. If no form of collaboration has been specified, students must assume that none is permitted. Because assignments that involve group-based work can cause students to question what forms of collaboration are proper, they should seek guidance from their professors in all cases of doubt. Professors should make clear to students what forms of collaboration are permissible and impermissible. The standards on cheating do not prohibit students from studying together or from tutoring each other.

Plagiarism

Plagiarism is any act of misrepresenting the sources of one's information and ideas. When writing essays, it is the act of presenting another person's written words or ideas as one's own. When reporting experimental work, it includes the acts of falsifying data and presenting another's data as one's own. In speeches, it involves quoting passages of others' speeches or written words without mention of the author. Plagiarism is also possible in art and music, if one makes use of a work of art or music in a way that violates the standards of attribution in those fields.

Plagiarism may be willful, as when a student knowingly copies a source without attribution, or negligent, as when a student fails to cite sources properly. Both willful and negligent instances of plagiarism are subject to penalty—in part because professors must judge the result of a student's work, not his or her intentions, and in part because students are expected to know and follow the standards for proper citation of sources.

Forms of plagiarism therefore include but are not limited to:

- Copying whole papers or passages from another student or from any source.
- Allowing another student to copy or submit one's work.
- Buying or obtaining a paper from any source, including term-paper sellers and Internet sources, and submitting that paper or passages of it as one's own work.
- Pasting a passage from the Internet or any computer source into one's paper without quoting and attributing the passage.
- Fabricating or falsifying a bibliography.

- Falsifying one's results in scientific experiments, whether through fabrication or copying them from another source.
- Appropriating another person's computer programming work for submission as an assignment.
- When creating a webpage, film, or musical composition as a course assignment, failing to attribute material that comes from other media or failing to obtain proper permission for the use of such material.
- Any other appropriation of another's intellectual property without proper attribution.
- Submitting an assignment that one wrote during a previous semester or submitting the same assignment for more than one class simultaneously. This action includes reusing substantial portions of previously written work for a current assignment. (Students who are unsure of what work of their own they may use in preparing an assignment should consult their professors.) Assignments must be written the semester in which they are assigned unless a professor approves of the use of previously written material with specific guidelines. Assignments may only be submitted for credit in a single course unless professors in multiple courses are informed of and approve of the multiple submissions.

Note: Improper citation of sources occurs when a student presents all the sources he or she used in preparing a paper but fails to attribute quotations and information from those sources in the body of the paper. Specific examples include:

- Failure to use quotation marks for direct quotes or for an author's distinctive phrases. (A rule of thumb to follow is that five or more words in succession from a source must be enclosed in quotation marks.)
- Following an author's structure of writing and ideas, but rephrasing the sentences partially to give the impression that the whole passage reflects the student's structure and ideas.
- Failure to give page numbers for quotations or for other information that did not originate with the student.

Such acts fall under the rubric of plagiarism. Because they sometimes do not involve willful misrepresentation, professors may have more lenient policies in dealing with them. Yet students should strive to cite all information properly and should note that professors have the discretion to treat these cases as seriously as the forms of plagiarism listed above.

SANCTIONS FOR VIOLATIONS OF ACADEMIC INTEGRITY

Sanctions for Violations of Academic Integrity

When a faculty member encounters a possible violation of academic integrity, he or she should address the matter with the student within ten working days, after collecting whatever evidence may be available. The faculty member has the right to ask the student to provide evidence about sources or make other reasonable requests related to the work.

Cases of improper citation are a matter of faculty discretion. If the faculty member concludes that a student has violated the academic integrity policy, he or she may immediately assign a sanction of a failing grade for the assignment. He or she may also assign the student a grade of F for the course, which may not be forgiven. This determination must be sent in writing by the faculty member to the student within ten working days after initially addressing the matter with the student.

The faculty member will report the incident and the sanction imposed to his or her chair or program director, the dean of the college in which the course was taken, and the dean of the student's college (if different) within ten working days. This written account will include a complete documentation of the violation to all relevant parties.

The dean of the student's college will inform the student and his or her academic advisor in writing of the infraction, the sanction, and the appeals process available to him or her within ten working days of receiving notification from the faculty member.

The deans will maintain centralized files on all reported cases of academic dishonesty in their colleges. Should a student transfer his or her major to another college, the dean will transfer files pertaining to that student to the dean of the other college as soon as possible.

In the instance of a second confirmed violation, the letter from the dean to the student should also inform the student that a letter will be forthcoming from the Office of the Provost, detailing the process in which any additional sanctions might be imposed. This letter will be mailed from the provost within ten working days of him or her being notified by the dean of the student's college.

The timeline outlined herein applies under normal circumstances and barring institutional exigencies.

OTHER VIOLATIONS

Other forms of unethical behavior that disrupt the processes of learning, teaching, and research include:

- Providing to other students exams or papers of one's own or from any source with the reasonable expectation that these will be used for the purpose of cheating or plagiarism.

- Maintaining a file of exams or papers with the reasonable expectation that these will be used for the purpose of cheating or plagiarism.
- Theft and defacement of library materials.
- Theft of other students' notes, papers, homework, and textbooks.
- Posting another person's work on the Internet without that person's permission.

STUDENT APPEALS PROCESS

The student who maintains that he or she did not violate the policy should first attempt a resolution with the faculty member. If the faculty member does indeed impose a sanction, the student may next present his or her case in writing with supporting evidence to the department chair or program director of the faculty member involved. The chair or program director will consult with the faculty member in an attempt to resolve the matter. The outcome will be sent in writing from the chair to the student within ten working days after the discussion.

If the resolution is not satisfactory to the student, he or she may submit a written appeal to the dean of the college in which the course was taken, explaining how the work in question is in compliance with the policy and providing relevant supporting documentation. The appeal must be presented to the dean of the college within thirty working days of the notification being sent to the student from the chair or program director.

If the dean (or the dean's designee) finds that the appeal has merit, he or she has thirty working days to convene an appeal committee. This committee will consist of three faculty members: one selected by the student, one selected by the faculty member who taught the course, and one selected by the dean. After reviewing all documented evidence, this committee will decide whether the grade should stand or be reviewed by the faculty member. A letter explaining the committee's decision will be sent to the dean within ten working days after it meets. The dean will then have 10 working days to inform the student of the findings. This concludes the process.

SECOND AND SUBSEQUENT VIOLATIONS

When the dean of a college receives confirmation of a second violation, he or she will notify the provost of the University, who will refer the matter to the Standing Committee on Academic Integrity. The purpose of this committee is not to reconsider the student's guilt or innocence, but to recommend any additional sanctions after the appeals process has completed. This might include exclusion from the University for one or two semesters or a complete dismissal from the University. The committee will have available to it the full documentation of the student's previous violation of academic integrity and the authority to request additional information and documentation as warranted.

Faculty members of this committee will be elected from each College at the University for two-year terms in elections that it holds. The committee will also include the Dean of Students as a non-voting member.

The student will have an opportunity to address the committee if he or she wishes. The student may be accompanied by an advocate who is a current employee of the University who may not act as the student's legal counsel. The committee might also wish to hear from the student's academic advisor and the chair or program director of the student's major department(s).

The committee will make a recommendation of sanction to the dean of the student's college, who will in turn make a recommendation to the provost. The decision of the provost will be final, after which point he or she will have ten working days to send final notification to the student and all appropriate parties.

VIOLATIONS OUTSIDE OF A COURSE

When a student is suspected of having violated academic integrity by an action that did not occur in the context of a course (see section above, Other Violations), the student, faculty, staff, or administrator who suspects the violation and has plausible evidence should present this information to the Dean of Students. The Dean of Students will decide how to pursue the matter, and the student will have the right to appeal any consequences according to the Student Handbook.

Grading System

GRADE	QP	GRADE RANGE
A	4.00	93–100

A-	3.67	90–92
B+	3.33	87–89
B	3.00	83–86
B-	2.67	80–82
C+	2.33	77–79
C	2.00	73–76
C-	1.67	70–72
D+	1.33	67–69
D	1.00	60–66
F	0.00	0–59
P (Pass)	0.00 (for courses elected as pass/no pass)	
NP (No Pass)	0.00 (for courses elected as pass/no pass)	
W (Withdrawal)	0.00	
I (Incomplete)	0.00	
AU (Audit)	0.00	
NG (No Grade)	0.00	

I (Incomplete) grades may be changed by completing the deficient coursework no later than six weeks after the beginning of the following major semester (fall or spring). All Incomplete grades not changed within the six-week period will convert to Fs. In unusual circumstances, the six-week period can be extended if the instructor requests a grade change to an Incomplete Extension (IX) grade. Additional approvals will be necessary. The IX grade will be in effect until the next conversion date which is six-weeks into the following major semester. After that date the Incomplete Extension grade will convert to an F. An extension for incomplete work may be given only once with the approval of the course instructor and the department chair. Incomplete grade extensions must be filed in writing with the Registrar's Office by the instructor prior to the incomplete conversion date.

W (Withdrawal) grades are recorded when a student officially withdraws from a course within the approved time frame (see policy under Course Withdrawal).

NG (No Grade) is recorded by the Registrar when a grade is not reported by the instructor. Students will not receive credit for courses assigned a No Grade.

A grade below C is not an acceptable grade in First Year Seminar (FYS 125) or major coursework. In addition, some courses have as their prerequisite a grade of C or better. In these cases, the course must be repeated until a C or better is obtained. A repeated course may only be credited once toward the degree requirement. Some departments have limits of the times a student may repeat a course. The student should consult with the department.

Quality grade points earned in a course are determined by multiplying the point value of the letter grade (see the above chart) by the number of credits of the course. A term GPA is calculated by dividing the total number of quality grade points by the total number of credits taken during the term. A cumulative GPA is calculated by dividing the total number of quality grade points by the total number of credits taken at Sacred Heart University. Courses transferred into Sacred Heart University from other institutions do not factor into the Sacred Heart University grade point average.

Note: Grades of P/NP, W, I, AU, and NG are not included in the calculation of the term or cumulative GPA.

If a student repeats a course that had a passing grade, the best grade will be calculated into the student's overall GPA. The initial grade will remain on the transcript but will not be calculated in the overall GPA. The student will receive academic credit for the course only once. See the policy for repeating a failed course under the Academic Forgiveness section (p. 50).

CHANGE OF GRADES

An instructor may submit a Change of Grade only due to miscalculation or clerical error of the original grade. A change of grade for incomplete work is also acceptable. Grade changes must be submitted by the instructor of record using the appropriate form or online process in Web Advisor. Grade changes must be submitted no later than the end of the following semester in which the grade was posted. Any exceptions will require additional approval.

STUDENT GRADE GRIEVANCE—POLICY AND PROCEDURE

A student's dissatisfaction with a course grade is, in general, not sufficient grounds for warranting a grievance, convening a committee, or meriting a hearing.

Grounds for a grievance exist upon presentation of written documented evidence indicating:

- Discriminatory treatment;
- The process determining the grade differs from that outlined in the course syllabus; or
- The process determining the grade was not presented in writing to the students.

A documented grievance associated with a grade must be presented within six (6) months after the original grade was issued.

The procedure for a documented grievance is as follows:

- The student is expected to resolve the issue at hand with the faculty member.
- If the solution as provided by the faculty member is unacceptable to the student, the student may present the case in writing with supporting evidence to the department chair of the faculty member involved. The department chair will then make a judgment, after consultation with the faculty member and the student, in an attempt to bring the matter to resolution.
- If the department chairperson is unable to bring the matter to resolution or the judgment is unacceptable to the student, the student may present a formal appeal in writing to the dean of the college in which the course was taken or to his/her designee.
- If the dean of the college or his/her designee finds that the appeal has merit, he/she will convene a grievance committee. This committee will consist of only faculty members: one faculty member selected by the student, one faculty member selected by the faculty member concerned, and one faculty member selected by the dean of the college or his/her designee. The chair of the faculty member against whom the grievance is filed is not eligible to serve on the Grade Grievance Committee. After reviewing all documented evidence, the grievance committee will then propose a solution, supported by a rationale in writing, that the grade either stands or should be changed by the faculty member. If the faculty member is unavailable to change the grade, the department chair shall serve in lieu of the unavailable faculty member.

In the extraordinary circumstances in which the faculty member does not accept the recommendation of the Grade Grievance Committee to change the grade after the Grade Grievance Committee ascertains that one or more grounds for a grievance outlined above has been substantiated, then the issue shall return to the Grade Grievance Committee, which will make the final grade decision to be implemented by the department chair. This step concludes the process.

Academic Standards

SATISFACTORY PROGRESS

Satisfactory academic progress is determined by two criteria: good academic standing and normal progress.

Good Academic Standing

A student is in Good Standing if he/she is not on University academic probation or dismissed from the University.

Any student not in Good Standing may not represent the University in any public manner as a member or officer of a University registered club or organization, delegate to any association meeting or convention, or participant in intercollegiate athletic competitions. Any student who is placed on University academic probation will be ineligible to represent the University in any of the above activities. Effective time and dates of ineligibility are 12:01 a.m. on the Friday prior to the start of the semester.

Normal Academic Progress

A student whose credits completed fall below the minimum listed is considered as not making normal academic progress.

NUMBER OF FULL-TIME SEMESTERS STUDENT COMPLETED	Student Status	Credits Completed
2	Freshman	0–23
4	Sophomore	24–48
6	Junior	49–72
8	Senior	73–96
10	Fifth Year	97–120

The Office of Student Financial Assistance may require additional standards for 'Normal Academic Progress.' Students should, therefore, contact the department of Student Financial Assistance to confirm requirements for Satisfactory Progress.

ACADEMIC HONORS

Academic honors include the Dean's List and Graduation Honors.

Dean's List

The Dean's List is calculated on a semester basis. A part-time student completing a minimum of 6 credits and a full-time student completing a minimum of 12 credits in a reporting term with a GPA of 3.6 or better is eligible for the Dean's List. In addition, there are no Incomplete or Incomplete Extension grades or grades below a C. Students who receive an Incomplete grade and later complete the course are not eligible for the Dean's list.

If the student receives an NG (No Grade) and the NG grade is replaced with a letter grade, Dean's List eligibility will be reviewed at the request of the student.

Graduation Honors

Upon graduation, students who complete the undergraduate program of study with the following cumulative GPAs are eligible for these honors, provided that at least 60 credits for a bachelor's degree or 30 credits for an associate's degree were completed at Sacred Heart University.

Summa Cum Laude: 3.8 or higher
Magna Cum Laude: 3.6 to 3.799
Cum Laude: 3.5 to 3.599

ACADEMIC PROBATION

All students, except first-semester freshmen, whose cumulative grade point average (GPA) falls below 2.0 will be placed on Academic Probation. Any student (including first-semester freshmen) who receives a one-semester GPA of less than 1.8 will also be placed on Academic Probation. If a student's cumulative GPA is 2.2 or above and the semester GPA is lower than 1.8 but not lower than 1.5, the student will be administered an Academic Warning rather than placed on Academic Probation. However, two consecutive semesters of less than a 1.8 GPA, regardless of cumulative GPA, will automatically result in Academic Probation.

A student who receives a grade of F in six or more credits in any given semester will be reviewed for Academic Probation.

Any full-time student (enrolled for 12 or more credits) who fails to complete 12 credits in a semester will be reviewed for Academic Probation.

A student on Academic Probation may choose to enroll in courses at Sacred Heart University during the University's Winter session and Summer sessions. Grades from the Winter session will be applied to the Fall- semester probationary status, while grades from the Summer session(s) will be applied to the Spring-semester probationary status. This will include grades from all courses taken during Winter session and Summer sessions, not just repeats of failed courses. Winter session and Summer session grades will also apply to the cumulative GPA but will not be transcribed to the fall or spring semester.

DISMISSAL

All students subject to dismissal for academic reasons will be reviewed individually by the Academic Review Board of their college prior to a final decision and notification.

- A student who is on Academic Probation for two consecutive semesters will be subject to dismissal.
- Any student who incurs three Academic Probations during his or her academic career will be subject to dismissal.
- Any student whose cumulative GPA falls below the following levels will be subject to dismissal:

After One Semester: 1.00
16–30 Credits Attempted: 1.50
31–90 Credits Attempted: 1.70
91+ Credits Attempted: 1.90

A student who has been dismissed can appeal the dismissal to the Academic Review Board or equivalent structure through the dean of his or her college and request reinstatement. The procedure for appeal is listed below in the Academic Policies section (p. 49).

Note: The above standards are University standards. Some programs have additional standards regarding program probation or program dismissal.

Athletic Training

Health Sciences Pre-Professional

Nursing First Professional Degree

RN-to-BSN Nursing Students

Academic Policies

ACADEMIC APPEALS

A student who has been dismissed can appeal the dismissal to the Academic Review Board, or equivalent structure within each college, through the dean of his or her college and request reinstatement. Dismissed students have the option to appeal if they believe their academic deficiencies are due to extenuating circumstances or

computational errors in calculating their GPA or academic progress. The appeal should include some reflection on the cause of the poor performance, documentation of any extenuating circumstances, and a plan of action for improving performance if the student is admitted back into the University. The appeal and all supporting documentation of the appeal must be presented within fourteen (14) days after receipt of the formal dismissal letter. The Academic Review Board or equivalent structure will make a recommendation to the dean of their college in a timely fashion. The dean of the college will then make a final decision on the appeal. This concludes the appeal process.

ACADEMIC FORGIVENESS

A student who has successfully repeated a failed course and wants to make an adjustment to his or her transcript must submit the Repeated Course Request form to the Registrar's Office.

If an F grade was the result of a violation of the University's policy on academic integrity, the grade is not subject to forgiveness. That is, the grade will remain in the computation of the grade point average (GPA). If the Repeated Course Request is approved, only the more recent of the two grades will be counted in the computation of the grade point average (GPA). The original grade, however, will be kept on the transcript. This policy is limited to two repeats during the student's undergraduate study.

A student who has not been in attendance at Sacred Heart University for five years or more may apply for academic forgiveness of grades for courses taken at Sacred Heart during one problem semester—defined as one in which the student's term GPA was lower than 2.0. Prior to a written filing for academic forgiveness, the student must complete 12 total credits over a two-semester period at Sacred Heart University, with a cumulative average of at least 3.0 in these courses. Upon the successful completion of the 12-credit requirement, the student submits a formal written request for academic forgiveness to the Dean of the College in which the student is currently enrolled or intends to enroll. The student's written request should provide detailed information regarding the kinds of problems that the student experienced during the period for which forgiveness is requested, how those problems have been remedied, and why the University should consider forgiveness in his or her case. The Dean will make the decision whether to grant forgiveness. Academic forgiveness means that the grades from the problem semester remain visible on the student's transcript, but those grades are not calculated in the student's overall GPA. Forgiveness will affect the entire semester and not individual courses within a semester.

In the case of a student who chooses to repeat a course in which they received a passing grade for a better grade, the best grade will count in the cumulative grade point average. The original grade will remain on the transcript. Repeated courses will count for credit only once.

Academic Procedures

REGISTRATION

Prior to the regularly scheduled registration period each student will be notified of their scheduled registration date and time. Policies and procedures are available on the Registrar's webpage at www.sacredheart.edu/officeservices/registrar/. All full-time and part-time students are required to meet with their academic advisors prior to registration to discuss academic progress and registration options. All

registration blocks must be cleared by the appropriate department before a student will be allowed to register.

New students interested in full-time study must apply to the Office of Undergraduate Admissions for matriculation prior to registration. For an appointment, contact the Office of Undergraduate Admissions.

New part-time students should contact the Undergraduate Part-Time Admissions Office prior to registration for academic advising.

Full-time students are allowed to take two online courses during the fall and spring semesters. First-time, full-time freshman may take only one online course in their second semester. The online course restriction does not apply to winter and summer sessions. The online course limit may be appealed to the dean of the student's college.

Winter Intensive and Summer Registration at Sacred University

Students are limited to one course during the Winter Session. Permission to take an additional course may be requested by receiving a recommendation from their advisor and sending the recommendation to the Associate Registrar for a final decision.

Students may take only one course during the May intensive session and two courses during each of the summer sessions (summer session 1 and summer session 2) at Sacred Heart University.

See "Enrolling in Courses at other Institutions" (p. 51) for policy information.

Student Planning and Advising (SPA)

SPA is a secure site with access for current students and faculty. Through SPA students can plan their courses for multiple semester. Students can request advisor approvals for current registration periods. Students can search for open classes and register online, add/drop courses, view their schedules with up-to-date room and instructor information, or check restrictions on their registration for current registration periods.. Students may also view their profile information and send corrections to the Registrar's office. Students can view their grades and monitor their progress toward their degree goals.

Online Registration

Students are expected to register for classes through SPA provided the student does not have holds on their registration (balance due, Health Services immunization requirements, parking tickets, advisor permission, etc.). This ensures that all students comply with SHU policies prior to registration by meeting with their academic advisors and administrative departments to address any outstanding issues.

Students will be assigned time periods to register online for the fall and spring semesters including accelerated terms within those semesters. Messages will display on the screens whenever a student attempts to register for a class for which he or she is not qualified.

Registration Conditions

The University reserves the right to make changes at any time in admission requirements, fees, charges, tuition, regulations, and academic programs, if deemed necessary, prior to the start of any class.

The University also reserves the right to divide, cancel, or reschedule classes or reassign instructors if enrollment or other factors require. If

course cancellations occur, students will be notified by the academic departments through SHU email in order to adjust their schedules.

AUDITORS

A student wishing to audit courses must register for the courses as an “auditor.” No credit is granted for an audited course. The University may restrict auditors from certain courses. No student will be permitted to change from credit to audit or audit to credit after the add/drop period. Auditors may register during the first week of classes through the end of the add/drop period. Auditing a course requires instructor permission prior to registration. An additional audit fee will be assessed (see the Student Accounts webpage under tuition and fees.)

FULL-TIME OVERLOADS

The normal credit load for full-time students is 12 to 18 credits. Any student in good standing wishing to take more than 18 credits must make this request to the University Registrar. The request must also include the reason for the overload. The Registrar will review the request and recommendation and inform the student of the decision. An additional per-credit, non-refundable fee is charged for overloads over 18 credits. The Request for Overload form is available through the Registrar’s Office.

PASS/NO PASS OPTION

A student may choose a course with a pass/ no pass option. The University’s pass/no pass policy carries these conditions:

- Students are permitted to designate the pass/no pass option for up to four courses toward the baccalaureate degree, and up to two courses toward the associate’s degree. Once the course is completed with a grade of pass (P), it cannot be repeated for a letter grade.
- Courses can be taken under pass/no pass only from general elective courses. Courses being used to satisfy major requirements, foundational core requirements, thematic liberal arts requirements, or liberal arts explorations requirements may not be taken as pass/no pass.
- Courses taken under the pass/no pass option will not count in the student’s GPA.
- The pass/no pass option must be chosen during registration and cannot be changed after the end of the add/drop period for that semester.

COURSE CHANGES—ADD/DROP

A student may change his or her course selection only within the first week of the semester (or the equivalent for accelerated/intensive courses). The procedure for schedule changes is available on the Registrar’s webpage (www.sacredheart.edu/officeservices/registrar/). This process must be followed in order to ensure course registration and the proper calculation of tuition and issuance of refunds as listed in the Expenses and Student Financial Assistance chapter of this catalog. Students may not add a course after the add/drop period without written permission of the course instructor and the department chair. See Academic Calendars (p. 5) for add/drop deadlines.

COURSE WITHDRAWAL

If withdrawal from a class becomes necessary, the student should obtain an official withdrawal form from the Registrar’s Office. Official withdrawal is necessary to assure proper grade entry on the transcript and the issuance of any refunds, if applicable. A grade of W will be issued for course withdrawals submitted within the withdrawal deadline (See Academic Calendars (p. 5) for withdrawal deadlines). After the deadline a grade of W will only be granted in highly unusual circumstances, such as documented medical emergency. Students who do not withdraw in the specified timeframe will receive the grade that they have earned.

Students are encouraged to contact their advisor to discuss academic progress. Phone withdrawals are not accepted. Students who are taking only online courses may submit a request to withdraw from a course by sending an email to registrar@sacredheart.edu. The email must include the student’s request to withdraw with all required approvals attached. Nonattendance does not constitute official withdrawal.

Course withdrawals may affect satisfactory academic progress (as defined in an earlier section) and/or academic standing, and may result in the loss of benefits or permission to participate in University activities such as athletics. It is the student’s responsibility to understand these consequences.

Withdrawing from courses or failing to attend courses will impact your financial aid. For details please see SHU’s Financial Assistance Withdrawal Policy (p. 26).

VERIFYING STUDENT’S SCHEDULE

Students are responsible for checking their schedule on Colleague Self Service to make sure the information is correct. Any problems should immediately be directed to the Registrar’s Office. Students will be held academically and financially responsible for their registration as indicated on their schedule in Colleague Self Service.

ENROLLING IN COURSES AT OTHER INSTITUTIONS

All matriculated students are expected to fulfill course requirements for their degree at Sacred Heart University. Under special circumstances, a student may appeal to take a course at another regionally accredited institution during the winter or summer sessions only. The following guidelines will be used to determine approval for taking courses at other institutions:

- The courses are required in the course sequence at this time for the degree as indicated by the student’s academic advisor.
- The other institution’s courses must be equivalent to the required Sacred Heart University courses in the major, as determined by the department chairperson.
- The last 30 credits required for graduation must be taken at Sacred Heart University.
- The last 60 credits toward the degree must be taken at a four-year institution.
- A maximum of one course (3-4 credits) for a winter inter-session or summer session may be taken at another institution during a one-year period. However, a sequence of courses in the sciences (2

lectures and 2 labs) may also be taken at another institution during the summer session for legitimate reasons.

- If the course is in the student's major, it must be taken at SHU.
- Final approval must be given by the student's academic advisor, the department chair of the discipline of the course, and the dean of the student's college. The chair of the department in which the course is offered is responsible for deciding the course SHU equivalency.
- It is the student's responsibility to have an official transcript sent to the Registrar's Office to receive credit for the course. Only grades of C or better may be transferred into Sacred Heart University. The grade will not appear on the Sacred Heart University transcript and does not factor into the term or cumulative GPA.
- Exceptions to these policies can be made by the college deans.

INTERRUPTIONS IN ATTENDANCE

The following information outlines various leave and withdrawal options. Students are responsible for following all University policies before a leave or withdrawal is official. University refund policies apply. The student is responsible for obtaining all relevant information that may affect their standing and benefits including but not limited to financial aid and veteran's benefits.

Leaves of Absence are defined as a temporary separation from the university.

Students on leave are considered to be in continuous matriculation during the leave period. However, students should speak to their SHU Financial Assistance counselor to understand implications regarding their financial aid.

Students who do not return at the end of the leave or do not obtain an extension must apply for readmission. Students on leave must follow University policy before they return to the University.

Graduation requirements in effect for students at the time their approved leave begins will remain in effect when they return from their leave under the following conditions:

- For Personal Leaves of Absence, the student must be in good academic and disciplinary standing at Sacred Heart University when their leave began.
- For all Leaves of Absence, if a student was later placed on academic warning, probation, dismissal, suspension or expelled as the result of a judicial decision, the sanctions in place take precedence over the leave of absence.

This policy does not bind the University to alter the curricula or major program, which may have been discontinued or substantially altered during the approved leave. Students who change their major upon their return will be under the major requirements in effect at the time of their return.

Students may request approval for a leave of absence for good reason by following the process indicated below and filling out the appropriate forms.

Leaves are generally approved for one semester but an extension for an additional semester may be requested.

Students on leave may not take courses at another institution without prior written approval from the advisor, the department chair, the dean of their college, and a review by the Registrar. See Transfer Request Permission form for approval to take courses at another College.

Personal Leave of Absence

Academic (non-medical) leaves of absence may be arranged for one or two semesters subject to approval. Students must be in good standing to request a leave of absence. Students may apply for an Academic Personal Leave by filling out the Personal Leave of Absence form. This form must be sent to Registrar's Office and once approved the approved form will be forwarded to the Assistant Dean of Students for distribution.

Medical Leave of Absence

Students who must leave the University because of a documented medical condition may request a medical leave of absence. Documentation of the serious nature of the medical condition must be provided to the Director of Student Wellness. Students may apply for a Medical leave of Absence by filling out the Medical Leave of Absence form. Once approved, the completed form will be sent to the Registrar's Office to enter into the student's record and to forward to the Assistant Dean of the College of Arts and Sciences for distribution.

Medical leaves are generally approved for one semester but may be renewed for one additional semester with written permission from the Director of Student Wellness. Students must provide supporting documentation of their ability to return from their medical personnel to the Director of Student Wellness who will consult with other University personnel such as the Office of Student Accessibility and the Program Director or Department Chair. The decision to return will be made on a case by case basis. The student will be informed of the decision. The Director of Health and Wellness will send the written permission to return to classes to the Registrar and the Assistant Dean of the College of Arts and Science for distribution. Students on medical leave may not take courses at another institution without prior written approval from the advisor, the department chair, dean of their college, and a review by the Registrar. An additional form needs to be completed.

Military Leave of Absence

Students called to active duty while enrolled in the University should contact the School Certifying Official located in the Registrar's Office. Students must present proof of being called to active duty. Students wishing to obtain a military leave of absence may be offered the following options after consulting with financial assistance, instructors, and other University officials:

- Withdrawing from the courses with a full tuition refund or tuition credit, in accordance with University and government guidelines.
- If a student completed at least 70% of the coursework and upon recommendation of his or her dean, the student may elect to take incomplete grades and make special arrangements for course completion with individual instructors.
- Students are eligible to return within one year following active duty. However, the degree requirements may have changed, and the student may be required to comply with degree program requirements in effect at the time of their return to the University.

Complete Withdrawal from the University

Full-time students wishing to drop or withdraw from all their courses and thereby discontinue their enrollment must meet with the assistant dean of the College of Arts and Sciences. Part-time students should contact the Undergraduate Part-Time Admissions advisor. Students will not be allowed to drop or withdraw from their last registered course of the term without meeting with the Assistant Dean or Undergraduate Part-Time Admissions advisor.

University withdrawal is not official until the student meets with the appropriate University representative(s) and completes official forms. Any refunds will be determined by the official date of the withdrawal. All fees are non-refundable.

If a student withdraws from the University prior to and through the end of the add/drop period, the courses will not appear on the student's transcript. A "W" grade will be recorded and appear on the transcript if the student withdraws from the University after the add/drop period.

READMISSION

Returning full-time students who have not attended the University for up to two consecutive major semesters (fall and spring or spring and fall) will ordinarily be governed under the catalog that was in effect when they left the University. Students who have not attended the University for more than two consecutive major semesters (fall and spring or spring and fall) must apply for readmissions and, if accepted, will be under the catalog in effect at the time of their readmission.

The Admissions Office will confer with the academic dean and the dean of students before a decision on readmission is made. Students may not be guaranteed readmission to the major in which he or she was enrolled prior to readmission. Part-time matriculated students who have not attended the University for more than 24 months are no longer considered matriculated and must apply for readmission through the Undergraduate Part-Time Admissions Office. In unusual circumstances, a student may appeal the decision regarding the catalog applied.

SUBSTITUTIONS AND WAIVERS

In order to maintain academic quality and integrity, no student will be granted a substitution for a course or credits unless it is in accordance with the University's policy. Substitutions and waivers for major requirements may be granted at the discretion of the department chair/program director. However, if a student did not meet the academic requirements for a course, a substitution for that course will not be allowed. Substitutions and waivers for core requirements require approvals and recommendations from the student's advisor, major department chair, college dean, and the provost or the provost's delegate. Waivers will not provide additional academic credit toward degree requirements.

If the basis for the request of a substitution is a learning or physical disability, the student must contact the Director of Special Services and provide documentation of the disability to request the substitution. For information regarding this procedure, contact the Director of Special Services. All waivers and substitutions must meet the requirements of any academic program accredited and/or licensed by an outside accrediting body or governmental agency.

Proficiency Waivers for University Foundational and Thematic Liberal Arts Courses

The University core provides for proficiency waivers in the following areas: Mathematics and Modern Foreign Languages. The chair of the Department of Foreign Languages and Cultures should be contacted for waivers in foreign languages. For waivers in mathematics, contact the chair of the Department of Mathematics. Proficiency waivers exempt the student from taking the course(s). No credits are awarded for waived courses.

Final approval of a waiver for any University Foundational or Liberal Arts Explorations core courses must be approved by the Associate Dean of the College of Arts & Sciences. A student who is proficient in one of the above-listed areas may consider advanced-standing credits through one of the advanced placement tests (CLEP, DANTES, Excelsior). Students should check with the appropriate department(s) for policies and restrictions governing advanced standing credits. Approval for advanced standing is required before the exam is taken. A Transfer Request Permission form must be completed. See section on Admissions for policy and restriction information.

Application for Graduation

To receive a degree, a student must complete all requirements for that degree as listed in the catalog in effect at the time of admission into the program, complete a minimum of 120 credits, and earn a C or better in their major, some minors, and required supporting courses as well as an overall GPA of 2.0. Degrees are conferred three times a year in May, August, and December. The commencement convocation is held once a year in May.

A student eligible for a degree must apply for graduation to the Office of the Registrar as follows. An online application is available through Student Planning and Advising (SPA).

May graduation date: Application due the prior June

August graduation date: Application due the prior October

December graduation date: Application due the prior February

Failure to comply with the above schedule may result in a delay of degree conferral. Part-time students will be billed a graduation fee upon submitting the application for graduation. The graduation application fee is not refundable. In the event the student does not complete the requirements for the degree within one year of the original indicated date, a new application will be required.

Transcripts

The transcript is the official academic record. The student's authorization must be received before a transcript will be released. The student must complete an electronic transcript request. The link is available on the Registrar's Office webpage at www.sacredheart.edu/officeservices/registrar/. A fee is charged for each transcript requested. Options are available for rush processing and overnight delivery services at an additional cost. Transcripts will be withheld if the student has a financial obligation to the University.

University Life

A complete college education extends beyond the walls of the classroom and outside the pages of the textbook. Sacred Heart University's Student Life, Intercollegiate Athletics, and Career Development departments are committed to the holistic growth of students through both cocurricular and extracurricular programming. The University's goal is to provide the support services and life skills that will help students succeed in the classroom as well as in their pursuits after graduation.

Athletics and Recreation

At Sacred Heart University, a comprehensive athletics and recreation program exists for all members of the university community. During the academic year, the following opportunities are available:

DIVISION I INTERCOLLEGIATE ATHLETICS

The University's 32 NCAA D-I varsity athletic programs are open to all full-time undergraduate students. Eligibility requirements and scholarship availability vary by program and information can be found by contacting members of the coaching staff. To learn more about the Pioneer athletic programs, visit the official athletic website, www.shubigred.com where you will find team overviews, schedules, and players and coaches profiles. You can also find information on SHU Athletics on twitter and instagram, @SHUBigRed.

INTERCOLLEGIATE CLUB SPORTS

Our individual and team (single-gender and co-ed) club sport programs are open to all full-time undergraduate and graduate students. Most of the club sport teams are members of athletic conferences. Unlike varsity athletics, club sports do not offer scholarships, and practice and playing seasons are shorter and in some cases less intense than their D-I counterparts. All skill levels are encouraged to participate, and all programs have direct student involvement in the management of their sport. Similar to varsity athletics, each team has a professional head coach and athletic trainer. Additional information about intercollegiate club sports can be reviewed on the club sports webpage: <http://www.sacredheartclubsports.com/>

Our club sport teams include:

Men's Club Sports

Baseball
Basketball
Bowling
Football
Ice Hockey
Lacrosse
Rugby
Soccer
Volleyball
Wrestling

Women's Club Sports

Basketball

Field Hockey
Gymnastics
Kickline
Lacrosse
Soccer
Softball
Volleyball

Co-ed Club Sports

Badminton
Crossfit
Dance Team
Figure Skating
Gaming
Golf
Martial Arts
Rock Climbing
Running
Sailing
Spirit Squad
Tennis
Weightlifting
Ultimate Frisbee

RECREATION AND INTRAMURALS

Activities in this area are varied and offered throughout the academic year. Multiple fitness centers, a dedicated aerobics/dance room, an exceptional weight-training facility, and numerous sport leagues such as flag football, basketball, volleyball, softball, etc. (which are organized by residential hall floors, within academic departments, or most frequently by friends organizing a team) are all designed to allow members of the university community time to relax, exercise, socialize, compete, and enjoy healthy activity to balance out a rigorous academic schedule. Additional information about recreation and intramural sports programming can be reviewed at <https://www.sacredheart.edu/sacred-heart-life/fitness-recreation-sports/intramural-sports/>

Center for Career and Professional Development

The Center for Career and Professional Development provides guidance and professional preparation to full-time and part-time students who have matriculated toward a degree. Career Development programs and services include:

- Assistance finding internships for which students may be able to earn academic credit;
- Résumé writing, cover letter writing, interviewing and job search skills development;
- Professional development events such as; career panel discussions, networking events, on-campus employer interviewing, and job and internship fairs;
- Online job postings—the office maintains an online job bank and job search management website (Handshake) exclusively for Sacred Heart University students and alumni;

- Guidance in conducting a senior-year or final graduate program year job search for a full-time position after graduation;
- Assistance in finding part-time and summer employment;
- Planning for and researching graduate school options, and
- One-on-one professional development coaching.

The Center for Career and Professional Development is located in the Linda E. McMahon Commons building and can be reached by phone at 203-371-7975 or via e-mail at careerdev@sacredheart.edu.

Commuter Students

The University is committed to providing commuter students a comprehensive college experience—keeping in mind the special needs and concerns of commuter students. Commuter students are encouraged to participate in Commuter Student Roundtable discussions and become part of Commuter Assistants, a peer-matching program.

Commuter students are also urged to join the Commuter Council, a student-run organization dedicated to providing programs and services for commuters as well as all other involvement opportunities offered to all full-time undergraduate students.

The Commuter Life Office is part of the University's Student Life Department and can be reached at 203-371-7969

Wellness Center

COUNSELING SERVICES

The Counseling Center provides support services of a holistic student development nature and attends to members of the University community who may be experiencing some difficulty in adjusting to emotional wellness issues. The University provides professional counselors who are available weekdays for individual personal counseling sessions and psychotropic counseling.

Many personal development workshops are offered by the Counseling Center, as well as group topical counseling sessions. For longer-term therapy, the staff makes referrals to local professionals at an individual cost to the student.

For additional information about the Counseling Center, call 203-371-7955.

HEALTH SERVICES

Sacred Heart University Health Services provides accessible, high quality, and cost-effective healthcare, serving the acute and chronic medical needs of SHU students. The team of physicians, advanced practice clinicians, registered nurses, medical assistants, and clerical / support staff at Health Services work together to promote the physical and emotional well-being of SHU students.

All services are rendered by appointment, with limited "walk-in" access. At Health Services, there is no charge to see a provider for any full-time undergraduate student. A small fee may be charged for diagnostic testing or immunizations.

Student Health Services is run by Orthopedic Specialty Group, the largest orthopedic practice in Southern Connecticut. All employees of Student Health Services work solely at SHU and are dedicated to student wellness.

Any registered student who has provided a current physical exam and immunization history may access Student Health Services for:

- evaluation and treatment of acute illness and injury
- gynecological care
- minor procedures (such as suture removal, abscess drainage)
- diagnostic testing (strep throat tests, urine testing, and mono screens, which are rendered on site. Other laboratory testing is sent to an outside lab which bills the student's insurance plan).
- immunizations against influenza, measles, mumps, rubella and others
- tuberculosis screening

Health Insurance

All full-time students must show proof of health insurance coverage or else enroll in the University's Health Insurance Plan at www.kosterweb.com. Undergraduate students who attend at least half-time (six credits per term) are eligible to enroll in the University's student health insurance program. All international students are required to show proof of adequate health insurance coverage or participate in the insurance program. Information regarding specific coverage under student health insurance should be directed to the Health Services Office at 203-371-7838 or online at www.kosterins.com.

International Students

The University provides academic and social support to its growing number of international students. International and Multicultural Affairs is a part of the University's Student Life Department. All international students are encouraged to use the University services to seek assistance for their concerns and to become involved in campus activities. University services include the English as a Second Language (ESL) program, the International Club, and focused international student programming.

INTERNATIONAL STUDENT VISA CERTIFICATION

An international student requesting an application for a student visa (F-1) must be accepted to the University in a full-time program of study. Since federal and/or state financial assistance is not available to international students, the student is also required to present certified evidence of sufficient funding to cover education and living expenses. If, after attending the University, the student decides not to return, notification must be made in writing to the Principal Designated School Official (PDSO) in the Office of Immigration and Support Services. If a student wishes to travel during the authorized time of study at the University, he or she must present a current I-20 form to the PDSO for certification

prior to departure. A student not following the regulations of the Department of Homeland Security, U.S. Immigration and Customs Enforcement is considered out of status and may be subject to deportation from the United States.

Student Activities

The Student Activities Office seeks to enhance the college experience outside the classroom by offering both cocurricular and extracurricular opportunities for students. In addition, the Student Activities Office teaches life skills to students through formal training sessions and leadership opportunities.

A vital component of the Department of Student Life, the office is responsible for scheduling, planning, and overseeing all student events on campus. The Student Activities Office is a center for information on events, student groups, Student Government, and student leadership. The Student Activities Office can be reached at 203-365-7675.

Student Clubs and Organizations

The University encourages students to become involved in student groups as a part of their college experience. Diverse interests are represented on campus by numerous clubs and organizations:

Academic Clubs

Accounting Club
 American Chemical Society
 American Medical Student Association
 American Sign Language Club
 Art Club
 Biology Club
 Business Administration Club
 Computer Science Club
 Criminal Justice Club
 Education Club
 English Club
 Exercise Science Club
 Fashion Club
 Finance and Economics Club
 Health Science Club
 History Club
 Marketing Club
 Math Club
 National Student Speech-Language-Hearing Association
 Philosophy, Religious Studies & Theology Club
 Politics & International Studies Club
 Pre-Physical Therapy Club
 Pre-Physicians Assistant Club
 Psychology Club
 Public Relations Club
 SMILE Geriatrics Club
 Social Work Club
 Sports Management Club
 Sports Media Club
 Student Academy of Audiology
 Student Athletic Training Organization
 Student Nurses Association

Academic Honor Societies

Alpha Kappa Delta
 Alpha Kappa Psi
 Alpha Phi Sigma
 Alpha Sigma Lambda
 Delta Epsilon Sigma
 Delta Mu Delta
 Kappa Psi (band fraternity)
 Lambda Alpha Epsilon
 Lambda Epsilon Chi
 Phi Alpha Theta
 Phi Eta Sigma
 Phi Sigma Alpha
 Phi Sigma Iota
 Psi Chi
 Sigma Tau Delta
 Sigma Theta Tau
 Theta Alpha Kappa

Greek Life Fraternities

National

Alpha Tau Omega

Beta Theta Phi

Delta Tau Delta
 Iota Phi Theta
 Kappa Sigma
 Pi Kappa Phi

Local

Omega Phi Kappa

Greek Life Sororities

National

Alpha Delta Pi
 Chi Omega
 Delta Zeta
 Kappa Alpha Theta
 Kappa Delta Phi
 Phi Sigma Sigma
 Theta Phi Alpha
 Zeta Tau Alpha

Intramurals

Aerobics
 Basketball
 Bowling
 Dodge Ball
 Flag Football
 Floor Hockey
 Golf
 Martial Arts
 Soccer
 Softball
 Tennis
 Volleyball

Wiffleball

Media Organizations

Film Club
Her Campus
Pioneer Magazine
Spectrum (newspaper)
The Pulse (TV News Magazine)
WHRT (radio station)
WHRTV (multimedia)

Multicultural Organizations

Black Student Union

Heart of Diversity
Italian Club
La Hispanidad
Muslim Student Awareness

Performing Arts

Pioneer Bands
Concert Band
Marching Band
Pep Band
String Ensemble
Jazz Band
Winter Guard
Choir
Liturgical Choir
Concert Choir
Four Heart Harmony
SHU Love–Women’s Ensemble
Theatre Arts Program (TAP)

Social Groups

Capoeria (Sagrado Coraco)

College Democrats

College Republicans
Gender Sexuality Alliance
Kappa Psi (band fraternity)
Love Your Melon
Rock Music Club

Student Alumni Association
Turning Point

Service Clubs/Organizations

Are You Autism Aware?
Best Buddies
buildOn
C2R Club
Green SHU’s
Habitat for Humanity
Hearts United
Ivory Ella
Lighthouse Christian Community

To Write Love On Her Arms

Residential Life/Commuter Life Clubs

Commuter Council
Hall Councils
Residence Hall Association

Student Government

The Student Government is the parent organization to all student groups on campus. It is composed of:

- Class Officers
- Council of Clubs and Organizations
- Executive Board
- Student Events Team (SET)
- Student Government Class Boards
- Student Senate

Student Government’s primary purpose is to oversee student groups, sponsor events to meet the needs of the students, and to address concerns of the student body.

Student Union

Another area in the Department of Student Life is the Student Union Office. Many of the nonacademic services provided by the University are facilitated by the Student Union, including:

- Class ring sales
- Hawley Lounge
- One-Card program
- Red’s Pub
- Room/Facilities Reservations
- Shuttle Service
- Student ID Cards
- Vending Services/Laundry
- Campus Concierge

The Student Union Office can be reached at 203-365-7913.

Every student (full-time and part-time) is responsible for being aware of the policies and procedures of Sacred Heart University as outlined on the Student Handbook web link at <http://www.sacredheart.edu/campuslife/lifeonoffcampus/studenthandbook/>. All students will be held accountable for their actions and subsequent consequences with regard to these policies and may be subject to any judicial action as detailed in the Student Handbook.

Student-Services

Campus Ministry

The Office of Campus Ministry provides opportunities for persons of all faiths and religious traditions to share their faith in the life of the University community. Campus Ministry serves students, faculty, staff, and the local community through daily liturgies, pastoral counseling, community outreach, educational programming, and special projects, events, and retreat programs

Campus Ministry responds to student needs for worship, integration, reflection time, social interaction, meaningful discussion of life issues, responsible social action for justice, and exploration of moral, religious, and relational issues.

The Eucharist is celebrated on Sundays and weekdays during the academic year. In addition, University-wide liturgical celebrations mark special days and seasons. Other interfaith worship and prayer opportunities are provided regularly.

Center for Strategic Planning for Not-For-Profit Organizations

The Center for Nonprofits was established by Sacred Heart University within the Jack Welch College of Business & Technology to provide business assistance to nonprofit organizations. Applying skills developed during their studies, teams of MBA students as part of their capstone course, address issues central to a nonprofit's longer term viability and effectiveness. Under the guidance of an experienced advisor, students assist nonprofit organizations with the development and implementation of strategic, business, and marketing plans necessary to meet the nonprofits' goals and objectives. The students provide a valuable, pro bono service while being exposed to "realities of life" that transcend the formal academic environment. It is the mission of the Center to engender in the University's MBA students a sense of community and an appreciation for those less fortunate by providing them a unique opportunity to use their talents in the service of others. Along with MBA consulting projects the Center presents conferences, conducts training workshops, convenes communities of practice, places interns at nonprofits and promotes social entrepreneurship. For further information go to: www.sacredheart.edu/cfnp

Computer Facilities and The Factory

Sacred Heart University offers a state-of-the-art campus network. The library, classrooms, on-campus residence facilities, health and recreation center, and faculty and administrative offices are all networked. With its fiber-optic infrastructure, the University is positioned to support a wide range of emerging technologies. The University has established itself as a pioneer in the implementation of technology across the curriculum.

A host of multiprocessor campus servers support the labs and educational programs. The University's gigabit Internet, backbone

support, and wireless network are linked throughout the campus. The network also supports video, voice, and data across the campus. State-of-the-art routers and firewalls provide high-speed connectivity and security to wide area network (WAN) segments, and are managed completely in house. Administrators maintain traffic-shaping, intrusion prevention, and wireless security measures for access as secure as it is convenient.

In support of the laptop program, the University has an on-site Notebook Service Center and Call Center (The Factory) staffed by certified technicians and open 12 hours a day, Monday through Thursday, and 9 hours on Friday. The Factory is staffed five days a week, so that members of the University community can call trained technicians for assistance with anything on campus that pertains to technology. The Factory can be accessed on campus through the internal telephone system and off campus via a toll-free telephone number. This facility is specifically designed to service and troubleshoot problems with laptops. Through Sacred Heart's telephone support hotline, students, faculty, and staff can dial a toll-free number or e-mail tech support to obtain technical assistance. In addition, Sacred Heart University has a full-time training department, which provides multiple workshops every month to train faculty, staff, and students on various technology applications. One-on-one sessions are available by appointment and can cover any software supported by the University.

SHU MAKERSPACE

Makerspace offers a platform to bring ideas into prototypes. In its 11,000 sqft lab space, there are 30 3d printers which allow simple prototyping to commercial grade product realization. Fully-equipped metal and wood working space has mostly digital controlled systems that eliminate the need of manual controls. There is also possibility for manual workshop abilities to address those who are familiar or prefer manual operations. Electronics section of the lab allows students to build their own circuits and program microcontrollers. Several breakout rooms and conference rooms also bring the capability of holding meetings or project group gatherings. 40 seat classroom in the lab is used for instruction and presentations. A custom drone research lab from Quanser is also housed in this classroom. Characterization room also offers a unique capability of working with chemicals and utilizing Nikon stereo and optic microscopes.

In more detail, makerspace has 3d printers from Makerbot, Stratsys, FormLabs, Gigabot, and Prusa. Some other digital manufacturing equipment include Universal Laser cutters, Techno CNC routers, Optomax waterjet cutter, CNC mills and lathes, and Voltera circuit prototyping. Tektronix electronics instrumentation such as spectrum analyzer, LCR meter, oscilloscopes, function generators, power supplies, and high resolution multimeters. Visit SHU Makerspace for more information.

Dining Services

The University has contracted with Chartwells, a professional food service corporation, to provide meals for students. Between food courts, all-you-can-eat services, convenience stores, cafes, and diner-style establishments, your choices for food are varied and wide. The Dining

Service Director works closely with students and staff to ensure the dining needs of the University community are met.

The University's meal plan is a hybrid declining-balance, all-you-can-eat program. Prepaid plans are available to residents, commuters, faculty, and staff members. Points in this program can be used for many purchases, ranging from entrees to snacks and ice cream to grocery items to convenience items such as toiletries and necessities. Meal plan points are applied to your SHUCard for ease of payment. Cash is another payment option for those not on a meal plan.

All first-year undergraduate residents are required to be on a "Big Red" meal plan. All first and second-year undergraduate commuter students are required to be on the "Jefferson" meal plan. All other undergraduate students are required to be on a meal plan at a level which is determined by their residence hall. Information concerning the meal plans is available through the Student Life Office.

Points may also be used at most other dining locations on campus as well as at all home football and basketball games.

Please refer to the Dining Services link on the Sacred Heart website for all dining locations, special menus, and their hours of operations.

English as a Second Language

The English Language Institute at Sacred Heart University offers an accredited, full-time Intensive English Language Program. Students can take up to 20 hours of class per week in our CEA-accredited Intensive English Program. Full-time ESL students enroll in eight-week sessions, taking courses in Grammar, Reading, Writing and Listening & Speaking. Placement in the non-credit, pre-academic Intensive English Language Program is determined by an English Placement Test and the student's language profile.

Students who successfully complete their ESL classes at the Sacred Heart English Language Institute are not required to take another proficiency test to enroll in other degree programs at Sacred Heart University. Admission to the English Language Institute does not guarantee admission to the University. For more information regarding the program, contact the Assistant Director at 203-365-7528 or esl@sacredheart.edu. The program runs five semesters per year. Please see the [English Language Institute](#) web site for further information.

Maureen Hamilton Wellness Center Vaccination Laws

Meningococcal Vaccine Law

Beginning with the 2002–2003 academic year, the State of Connecticut requires that all students who reside in on-campus halls must be vaccinated against meningitis. Proof of this vaccination must be presented to the appropriate University officials before a student can obtain entry to their residence hall. This guideline for Connecticut colleges and universities is provided in Public Act 01-93. For additional information, call the University's Health Services at 203-371-7838.

Visit our Wellness Center website for an up-to-date listing as changes occur here.

MEASLES VACCINATION LAW

Connecticut law requires students born after December 31, 1956, to provide proof of two doses of measles vaccine administered at least one month apart.

The first dose of vaccine must have been given after the student's first birthday and after January 1, 1969; the second dose must have been given after January 1, 1980. The student is also required to provide proof of one dose of rubella vaccine administered after the student's first birthday. Laboratory evidence (blood test) is acceptable in lieu of administration of vaccine. All students must be in compliance with this state law before registering.

MENINGOCOCCAL VACCINE LAW

Beginning with the 2002–2003 academic year, the State of Connecticut requires that all students who reside in on-campus halls must be vaccinated against meningitis. Proof of this vaccination must be presented to the appropriate University officials before a student can obtain entry to their residence hall. This guideline for Connecticut colleges and universities is provided in Public Act 01-93. For additional information, call the University's Health Services at 203-371-7838.

VARICELLA VACCINE LAW

The State of Connecticut General Status Sec. 10a-155 and Sacred Heart University requires for all students born on or after January 1, 1980, proof of two doses of the varicella (chicken pox) vaccine or documentation of date of varicella disease signed by your healthcare provider or evidence of immunity to varicella via blood titers (lab report is required).

Hersher Institute for Applied Ethics

Established in 1993, the Hersher Institute for Applied Ethics serves both the University community and the wider Fairfield County community by addressing issues of major ethical concern. The institute assists Sacred Heart University faculty from all disciplines to raise and examine broad ethical concerns and issues specific to their respective disciplines.

The Hersher Institute brings speakers to campus to address the faculty and provides training for integrating ethical viewpoints into the University curriculum. The institute supports the University's wider mission by cosponsoring, with other departments and institutes, colloquia and conferences that raise important ethical questions for the University scholarly community and the general public. For further information, call 203-365-7657.

Instructional Technology and Student Mobile Computing Program

Recognizing the increasingly important role of technology in our society and in education, Sacred Heart University has made a commitment to and a serious investment in computers, networking, and its supporting technologies. The University's network infrastructure provides

connectivity to every facility on campus via a fiber-optic multi-gigabit Ethernet backbone.

802.11ac wireless access points provide access to the University library, Internet, and student e-mail 24 hours a day, seven days a week.

VPN and Virtual Desktops are available to provide connectivity solutions for even the most sophisticated applications, from anywhere on the Internet. E-mail via Microsoft Office 365 is available through the web for sending and receiving campus e-mail from any computer connected anywhere on the Internet.

To promote its “Anytime, Anywhere Learning” initiative, Sacred Heart University deployed wireless networking in the summer of 2000 to create one of the first wireless network campuses in New England. This infrastructure allows students to use their portable devices anywhere on campus. The current wireless standard is 802.11n with several locations including the Martire Center supporting 802.11ac connections.

The students’ computing laboratories are currently comprised of 776 desktop computers distributed throughout several academic facilities. Thirty laboratories are used for computer-related instruction, and an additional lab provides 24/7/365 access for Sacred Heart University students, faculty, and staff. The University continues to upgrade regular classrooms to technology-enhanced classrooms with fixed multimedia capabilities that allow instructors to fully integrate technology in their classroom presentations. All general-purpose classrooms are equipped with large screen displays, classroom computers, laptop connections, BluRay players, and audio capabilities. All classrooms on campus are equipped with an active data jack for instructors or students to access the network. Additionally, there are data connections in every room, and wireless networking is accessible throughout the campus. The network infrastructure is designed with future technologies in mind and with excess capacity to allow for significant growth. The University is making a serious financial commitment to maintaining the network at peak performance capability and reliability. Upgrading the software and hardware that support the network is a continuous process and not one the University will ever say is complete. Sacred Heart’s commitment is to keeping a state-of-the-art system in place for all our campus customers.

The University is part of a select group of academic institutions that embraces the mobile computing philosophy. Full-time undergraduate students are encouraged to purchase and use a laptop during their academic life at the University. Information Technology fully supports a variety of laptop models from Lenovo, Apple, and Dell. In addition, Sacred Heart University provides all of its full-time faculty members with a choice of PC laptop, Mac laptop, or tablet refreshed every three years. We offer a similar program to our adjunct faculty who are issued a supported laptop as well. We build and deploy an image which contains the latest Microsoft Office software and other necessary tools and utilities.

Sacred Heart University’s Learning Management System, Blackboard, provides faculty with the virtual tools to remain connected to students in and outside of the physical classroom. Blackboard’s functionality allows faculty to add course content, foster group communication, integrate multimedia options and administer assessments when required.

The University provides faculty with a suite of video collaboration tools to support synchronous virtual activities. The suite includes WebEx, Zoom, and Microsoft Teams. Students are provided with account access to those systems to host independent class sessions to facilitate classroom activities. Asynchronous classroom recordings are provisioned with the use of a lecture Capture solution known as Echo360. This Lecture Capture solution is deployed at the faculty member’s discretion.

The Microsoft Office 365 portal provides the Sacred Heart community with additional collaboration tools. Users can create documents, share with colleagues and edit them simultaneously. Students have the ability to use OneNote, a digital notebook application, to keep their course notes organized, and Microsoft Sway brings new features to a group presentation. To access the Microsoft portal, please visit <https://portal.office.com> and log in with your Sacred Heart University credentials. For training on technology tools, or to learn more about the possibilities, please contact the Instructional Technology Department.

IPTV

Sacred Heart University is pleased to offer Philo Edu to all of our students in SHU housing**, as well as staff! Philo Edu allows you to watch live television on your own terms – on laptops and other devices anywhere on campus. With a stellar channel lineup, the ability to pause and rewind live TV, and unlimited DVR space, Philo Edu gives you the flexibility and control you need to stay up-to-date on sports, current events, and the shows that matter to you most.

Check out our Philo Information Page to learn how to access Philo on different types of devices, how to log in, and more!

***Students living in Oakwood Gardens have a different channel lineup, and can enjoy Philo Edu when they are on the campus network*

Jandrisevits Learning Center

The Jandrisevits Learning Center (JLC) located in the Student Success Center offers the following support services free of charge to all SHU students:

- Individualized tutoring in many disciplines provided by faculty, graduate, and peer tutors (by appointment);
- Classroom Learning Assistants (CLAs), who are peer tutors nominated by faculty to provide academic support to students in disciplines across the curriculum;

- Workshops on college-level study skills such as note-taking, time management, test-taking, critical reading and writing, oral presentations, and math concepts and problem solving;
- Online Writing Lab (OWL) for online feedback with written assignments, and
- 1-on-1 Academic Coaching

Public Safety and Parking

PUBLIC SAFETY AND PARKING

The Department of Public Safety, located on the Lower Level of the WSHU Broadcast Center, is committed to fostering an environment in which all those who live, study, work, or visit within the University campus are able to do so in a safe and secure environment. The department is committed to providing professional, timely, and efficient public safety services to all of its constituents on a 24-hour-a-day, seven-day-a-week basis.

Public Safety officers patrol the buildings and grounds of the University via vehicle, bicycle, and foot. Services provided by the department include personal safety escorts, motor vehicle assistance, jump-starts, and training, as well as maintaining a lost-and-found department. Public Safety enforces parking and traffic regulations, provides key control and locksmith services, and investigates and documents incidents on campus. Public Safety is the emergency response department on campus and acts as the liaison with the local police, fire, and ambulance services.

All vehicles parked on the campus must display a University decal or visitor parking pass. Parking permits are available from and distributed by the Public Safety Parking Office in the Main Academic Building. Visitor parking passes weekdays between 7:00 a.m. and 4:00 p.m. can be obtained at the security booth. Students, faculty and staff can apply online through the parking portal on the Public Safety website. For any parking questions email: parkinginfo@sacredheart.edu or visit the Public Safety website for general information.

Department of Public Safety Telephone Numbers

Routine Business: 203-371-7995
 EMERGENCIES ONLY: 203-371-7911
 Fax Number: 203-396-8372
 Information Line Phone: 203-365-SNOW (7669)
 Visit: Public Safety Web Page

Radio Stations

WSHU Public Radio is a professionally operated group of public radio stations licensed to Sacred Heart University with studios and control centers located on the Fairfield campus. A full member of NPR, it is one of only two such stations in Connecticut and 268 in the United States. WSHU is the principal public radio source for Fairfield, New Haven, and Litchfield Counties in Connecticut and Suffolk and Dutchess Counties in New York. More than 264,000 listeners tune in to the station's blend of acclaimed NPR news and talk programs, locally produced classical music, award-winning regional reporting, and unique entertainment.

WSHU utilizes student support in the form of internships, work-study students, and board operators. It also serves as a lab for audio

production. In addition to its original 91.1 FM signal, WSHU operates another service, WSHU Fairfield County Public Radio (1260 AM, 1350 AM, 1400 AM, and 106.5 FM), as well as three other radio stations—WSUF 89.9 FM in Noyack, New York; WQQQ 103.3 FM in Sharon, Connecticut; WYBC 1340 AM in New Haven, Connecticut—and six translators: 90.1 FM (Stamford, CT), 91.3 FM (Huntington Station, NY), 91.7 FM (Ridge, NY), 93.3 FM (Northford, CT), 103.3 FM (Greenport, NY), and 105.7 FM (Selden, NY).

Residential Life and Housing Services

The Office of Residential Life and Housing Services coordinates all University housing options for students. The office staff, hall directors, and resident assistants work with students to make the halls a “home away from home” by creating a healthy living/learning atmosphere. Students have direct input to their living environment through the Residence Hall Associations and the Hall Councils, which address concerns and organize activities for members of the hall community. For a current list of our distinct residential lifestyles, from traditional high-rise resident halls to on- and off-campus apartments, go to our Resident Hall site.

Inquiries as to the availability of graduate housing or regarding off-campus rentals may be made by contacting the Office of Residential Life at 203-416-3417.

SHU Print and Delivery - SHUPAD

The SHUPAD (SHU Print and Delivery) is now in two locations. We are still on the main campus (SHUPAD Main) and now we're located on the West Campus (SHUPAD West). We can handle all of your document needs. We print, copy, and scan documents. Need something notarized? Look no further. Traveling abroad? We'll bring the USPS on site to process passport applications. We'll print your posters, banners, and even make signs for your next event. Interested in mailing something? We'll show you how to save money by designing mail pieces correctly to achieve maximum postage discounts. We manage the copiers located throughout the campus and accept your SHU ID card for any services rendered. We receive and distribute your mail and packages and will let you submit jobs through our Digital Storefront. Feel free to browse the SHUPAD web site for all that we have to offer!

SHU ID Card

The University has adopted the Transact system to create a simplified means for identification and commerce transactions on campus. Students must carry their Student Identification Card at all times and must show it to campus officials or their designees upon request. The ID card acts as your SHU Library card, meal card, door access control, and entrance to student events.

SHUCash is the convenient, cashless way to pay off campus at the area's most popular businesses. A prepaid, stored-value account that's part of your SHUCard, SHUCash has you covered with whatever you need, whenever you need it, 24 hours a day, 365 days a year.

From copy, laundry (no need to stockpile quarters!) and vending machines to the game room, post office and campus store, SHUCash has you covered. So forget about carrying cash, checks, ATM and other cards. You've got SHUCash. You've got The Way to Pay. Family members can deposit funds onto the SHU ID Card with knowledge of your ID number at SHU Card and choose Make Guest Deposit. Students and employees can also use the PHIL (Payment Headquarters in Location) machine on campus in the Main Academic Center building near the Student Union Office to make a deposit.

The SHU ID card can also be used at select off-campus merchant locations to facilitate additional commerce transactions. For a list of off-campus merchant locations, please go to SHUCard Participating Merchants.

The Student Success Center

The Student Success Center is SHU's central academic support service and is open to all SHU students. Our mission is to provide academic support to strengthen student learning and empower every student to develop as self-directed and lifelong learners. The Success Center offers students at every academic level an opportunity to improve their content area knowledge and develop academic skills needed to succeed in their coursework. Operated by highly experienced staff, we offer faculty, graduate, and peer tutors in disciplines across the curriculum. It is a warm, friendly learning environment that fosters the growth of self-directed learning.

University Facilities

Sacred Heart University comprises more than 300 acres of land, including an 18-hole golf course and the former global headquarters of General Electric, now known as West Campus. The main campus of the University sits on more than 100 acres in Fairfield, Connecticut, and is located less than 60 miles from Manhattan and approximately 150 miles from Boston. The University maintains branch operations for working adults in Bridgeport, Griswold, and Stamford, Connecticut.

Academic Center

The Academic Center contains mostly classrooms and faculty, administrative, and academic departmental offices. This includes Campus Ministry, Campus Operations, Public Safety, Student Affairs, Global Affairs, and Student Government offices. Academic and administrative offices for St. Vincent's College are located in the Science Wing. It is also a multipurpose activity center, housing the computer center, dining hall, the Art & Design Gallery, SHU Print-and-Delivery (a.k.a. SHUPAD), science and language laboratories, and the Edgerton Center for the Performing Arts. Hawley Lounge serves as a student lounge and recreational activity center. Food service locations in this building include 63's Dining Halls, Mahogany Room, and Outtakes.

Bobby Valentine Health and Recreation Center

Opening in August 2019, the three-story Bobby Valentine Health and Recreation Center will be the home for student recreation on campus, and will house the Club Sports, Intramurals & Fitness Department. The main floor features a multi-purpose sport court, climbing wall, and open space with free weights, machines & functional training. The top floor features dedicated cardio space, 2 workout studios, a juice bar, and a suspended track that overlooks the court and climbing wall. The lower level has an 18-bike Spin Room, a HD Golf Simulator, Bowling Alley, a Club Sports Athletic Training Room, Locker Rooms, and staff offices.

For hours and membership fees (if applicable), visit our web-site link for Bobby V Rec Center here.

Bookstore

The bookstore is located on the first floor of the Linda E. McMahon Commons. Operated by Follett College Stores, it offers textbooks, supplies, clothing with the University's name and logo, and related items. Bookstore purchases can be made online. Visit the bookstore's website at Sacred Heart University Bookstore.

Campus Field

Campus Field is the home of the Pioneer football, men's and women's soccer, field hockey, men's and women's lacrosse, women's rugby, and men's and women's outdoor track and field as well as numerous Club Sports programs. Renovated in 2015, Campus Field features lights and a new surface for its multipurpose field. The field is surrounded by an

eight-lane synthetic-surface running track, which was also recently renovated and is available for competition and recreational use. With seating for more than 3,500 spectators, Campus Field is an ideal location for large-scale events and has been host to athletic tournaments, graduations, and outdoor fairs. Adjacent to Campus Field are the new Bobby Valentine Health and Recreation Center and Pioneer Park.

Center for Healthcare Education

The faculty offices and many of the instructional spaces of the College of Health Professions and the College of Nursing are located in our Center for Healthcare Education, a short drive or shuttle ride south of our Main Park Avenue campus. This facility houses state-of-the-art labs, classrooms, and library facilities for the Colleges, which includes the College of Nursing, Physical Therapy, and Human Movement. All graduate study for the Colleges and many laboratory and didactic undergraduate courses are scheduled in this facility. In addition to the highly sophisticated classrooms, laboratories, and library spaces, there are dining facilities, a physical therapy clinic, a reading clinic, and administrative offices. Parking is available and the facility is served by a regular university shuttle service.

Chapel of the Holy Spirit

The Chapel of the Holy Spirit, which was dedicated in August 2009, is a pivotal campus landmark serving as a powerful symbol of Sacred Heart's Catholic identity. It holds more than 500 in its principal sanctuary with a smaller Chapel of the Nativity for daily Mass and private prayer that seats 50. Among the Chapel's special features are original mosaics and stained glass by the world-famous Jesuit artist, Father Marko Ivan Rupnik, and a tracker organ designed and manufactured especially for Sacred Heart University by the master craftsmen at Casavant Frères. There are outdoor gardens and a spacious narthex—or foyer—suitable for public gatherings. The building and grounds are designed to suggest one of the defining themes of the Second Vatican Council: the Church as the Pilgrim People of God. The Chapel roof consists of copper folds in the manner of a nomadic tent, for example, and the narthex has walls of glass to demonstrate the intersection between daily life and the life of prayer. The Chapel's bell tower holds four unique bronze bells, hand-cast in the Netherlands. The largest one weighs 1,500 pounds and measures 41 inches in diameter; the smallest weighs 447 pounds and measures 27 inches in diameter.

Curtis Hall

Curtis Hall, named for the University's founder, Most Reverend Walter W. Curtis, DD, Bishop of the Diocese of Bridgeport, houses the offices of Undergraduate and International Admissions, and Student Financial Assistance. The Curtis Theatre is also located in this building.

Dining Services Locations

The University has contracted with Chartwells, a professional food service corporation, to provide meals for students. The Dining Service Director works closely with students and staff to ensure the dining needs of the University community are met.

A complete listing of dining locations available can be found at the SHU Dine On Campus Site.

East Building

The East Building located at our new West Campus on Easton Turnpike in Fairfield serves as home of the academic offices for the Jack Welch College of Business and Technology. Several specialty labs and a 120-seat theater are housed in this building as well. Parking is located in a single-level parking garage below the building and it is served by a repeat university shuttle service.

Dining Services

The University currently offers in the following dining options: 63s Pioneer Food Court and Outtakes in the Main Academic Center, Einstein Brother's in the Martire Center, Linda's and Red's in the Student Commons, Balanced Kitchen in the Center for Healthcare Education, and JP's Diner.

These offer distinct dining services from all-you-can-eat, a la carte, diner, and grab and go.

For more information on each dining option, go to: Campus Dining Services

Edgerton Center for the Performing Arts

The Edgerton Center for the Performing Arts is a multifaceted facility that presents a wide variety of lectures, theatrical, musical, and dance performances. The University completed a renovation of the Edgerton Center in 2014, allowing for a larger Art & Design Gallery for displaying student and faculty artwork and a reception area where people can gather prior to and following performances. Creating a feeling of openness and natural light, the art gallery/reception area is walled with panels of glass and windows. The additions also include an outdoor facility that provides another warm gathering place for events and campus activities. A large media screen and benches allow for outdoor movies and other programs. The Edgerton Center, which seats close to 800, is host to year-round productions from a variety of University organizations including the Concert Choir, Concert Band as well as our Strings and Jazz Ensemble, along with the University's Theatre Arts Program (TAP), Performing Arts programs, and Dance Company and Ensemble. For all questions and ticketing information, call the box office at 203-371-7908, or visit the center at Sacred Heart University Edgerton Center for the Performing Arts.

Great River Golf Club

Sacred Heart University has purchased 150 acres of land on the Housatonic River in Milford/Orange, CT, which includes the Northeast's

premier semi-private 18-hole Great River Golf Course and a 32,000-square-foot clubhouse. Located just 11 miles away from SHU's main campus, Great River Golf Club is a signature Tommy Fazio-designed facility that has been ranked one of the best in Connecticut through the years.

For more information on this facility, go to Great River Golf Club.

Sheila Hamilton Student Success Center

The Sheila Hamilton Student Success Center is dedicated to helping SHU students and young students from the surrounding region achieve success in their educational pursuits. The Student Success Center focuses on enhancing student learning, testing, and achievement. The Center for Teaching and Learning provides students with tutoring for their academic program. Professional and student tutors help students in math, writing and the natural sciences. The Office of Special Services provides support and accommodations for students who need specific help with learning. There is also a laboratory for literacy where graduate students in Education provide tutoring in reading to children in the Bridgeport Public School System.

The Jandrisevits Learning Center (JLC) provides specialized tutoring for students with learning disabilities (LDs) as well as for students who are linguistically diverse (ESL). Staffed by highly experienced faculty tutors and well-trained peer tutors, the JLC provides a warm, friendly learning environment where the academic success of individual students is the primary concern. An adaptive technology lab is available for students with visual, auditory, physical, or learning disabilities. For an appointment, call 203-371-7820 or come to the Student Success Center.

The Student Success Center is on the corner of St. Nicholas Road and Park Avenue.

Maureen Hamilton Wellness Center

The Maureen Hamilton Wellness Center is located at 4980 Park Avenue. The colonial-style two-story, 5,800-square-foot building serves as a place for acute health and medical needs and will also offer students confidential counseling and therapeutic services. The first floor of the Wellness Center houses a reception and waiting area, medical record storage room, several examination rooms, a physician's office, and both a supervisor's office and nurse's office. The second floor offers a health resource area, wellness center, and several counseling suites. Peer educators are also available to aid students in making responsible choices about alcohol and relationships and in coping with loss by offering support and resources. The Wellness Center contains numerous examining rooms and is equipped with a laboratory and wellness room where students can wait following vaccinations and where they can be monitored for adverse reactions.

JP's Diner

Sacred Heart University's newest dining hall, JP's Diner, is a '50s-style diner and the first on-campus diner in all of New England. Named for

SHU President John J. Petillo, JP's is located on SHU's newly-constructed Upper Quad, between the William H. Pitt Center and Pioneer Park.

The '50s- and '60s-themed diner offers a variety of food options for students in a fun, unique setting. JP's serves breakfast, lunch and dinner. The menu contains about 25 to 30 classic diner items including burgers, patty melts and club sandwiches. Dessert options include delicious pies, ice cream, cheesecake and, of course, milkshakes, a diner staple. JP's uses dining dollars, offers a take-out menu, and stays open until 3 a.m. on weekends.

The eatery features a big screen tv to showcase vintage black and white movies. The diner seats approximately 110 people inside and 40 people outside.

Martire Center

The Martire Center houses the academic departments within the College of Arts and Sciences and the School of Communication, Media, and the Arts. This building is located on the corner of Park Avenue and Jefferson Street in Fairfield. It offers state-of-the-art facilities that include an active trading floor; digital wayfinding; dedicated conference rooms for business meetings and internships; problem-based learning laboratories; screening venues; technology-enhanced classrooms with multimedia technology and moveable furniture for various learning configurations; satellite equipment; a multimedia forum for leadership institutes, lectures, and screenings; interactive labs including a motion-capture lab for motion picture animation and video game design; large-screen digital cinema; two large television studios for TV, video, and film production; and a radio station.

Ryan Matura Library

The Ryan Matura Library is the source for information, whether it is the answer to a factual question or research for a term paper. Librarians are available to answer questions and assist students with extended research projects. Instructional sessions are conducted for class groups to familiarize them with the library, with subject-specific research, and the research process. Librarians also assist students with finding information in other libraries, in commercial databases, or on the Internet.

Periodicals and periodical indexes, including newspapers, are found in print, film, and electronic format. Any book or periodical not found in the library can be obtained from another library through interlibrary loan. Materials can usually be obtained within ten days.

At present, the Ryan Matura Library holds approximately 125,000 print volumes and 50,000 nonprint items and more than 15,000 periodical subscriptions. These include a significant number of full-text journals available on more than fifty online index and abstracting databases. These can be reached twenty-four hours a day, seven days a week from links on the library homepage. Databases are available on campus and at home.

In addition, the library houses nine technology-equipped group study workspaces to allow students to work together on projects or prepare for presentations.

The library's website is located at library.sacredheart.edu. It provides access to the library catalog, information about the library, electronic reserve reading, links to research databases, and other related information.

Linda E McMahon Commons

The 46,000-square-foot Linda E. McMahon Commons serves as a crossroads and popular destination for students and the entire Sacred Heart community. Linking the University's academic, spiritual, and extracurricular cores, as well as its upper and lower campuses, the distinctive V-shaped building includes the bookstore, a food court adjoining a 250-seat student dining hall, a private dining room with hearth and seating for 50 individuals, informal lounge spaces including a fireplace lounge overlooking the east entry terrace, a concourse connecting active spaces within the building, a presentation room, Career Development and Placement Center, Red's Pub, and the office of the Senior Vice President for Enrollment, Student Affairs, and Athletics. The exterior of the building incorporates outdoor terraces that also serve as gathering space for students and faculty.

Melady Hall

The Melady Hall (formerly known as the Administration Building) is named after former University President Thomas Patrick Melady who served as the president of SHU from 1976 to 1986. It houses the office of the President in addition to the offices of the Provost and Vice President for Academic Affairs, the Vice President for Mission and Catholic Identity, the Vice President for Human Resources and Payroll, the Senior Vice President for Finance and Administration, and the Dean of Graduate Studies and Admissions.

Park Avenue Field

Park Avenue Field is home of the Pioneer men's and women's soccer and women's rugby. Opened in 2017, Park Avenue field is located next to the Martire Center and features a turf surface for its multipurpose field.

Pioneer Park

Pioneer Park is one of the finest softball stadiums in the Northeast. In the summer of 2016, the infield was turfed, giving the Pioneers a home field for all weather. It boasts seating for 350, 1 press box, locker rooms connected to both dugouts, a bullpen and batting cages along each foul line. There is a lawn viewing area beyond the outfield fence.

Pioneer Park is located at the bottom of the Jefferson Hill, between JP's Diner and the Scholars Commons residence halls.

William H Pitt Athletic and Convocation Center

The William H. Pitt Athletic and Convocation Center is home to the thirty-two Pioneer Division I men's and women's programs. The three-level, 141,000-square-foot complex features four multipurpose

basketball courts that seat 2,100 and can be easily converted for concert or convocation use.

The main level of the center houses the Athletic Communications suite and a four-court field house with indoor track and retractable batting and throwing cages. A floating wood floor is used for basketball and volleyball competitions.

The lower level of the Pitt Center received a major facelift in the summer of 2007. The 5,000-plus square-foot weight room now reflects a top level Division I weight room with the addition of state of the art weight training equipment, new Mondo rubberized flooring, lighting and a paint job that truly reflects the spirit of Pioneer Athletics. Other changes made were office renovations for men's & women's basketball and football, added locker room space and a total refurbishing of the aerobics room wood floor. The lower level also houses locker rooms for our athletic teams and members, the Pioneer Wrestling Room, Equipment Room and Athletic Training offices.

The upper level of the center houses the Department of Athletics suite of offices and a Student-Athlete Academic suite. Perched atop the Pitt Center is the Sky Box, a beautifully appointed room with terrace access that is used to host special guests during athletic events.

Residence Halls

The University currently houses students in distinct residential lifestyles, from traditional high-rise residence halls to on- and off-campus apartments. For a current listing of residential halls and their amenities, go to Sacred Heart Residential Halls

Schine Auditorium

The Schine Auditorium, located in the lower level of the Ryan Matura Library, provides an appropriate setting for lectures, workshops, academic convocations, and other special programs. To reserve the 220-seat auditorium, call 203-731-7846 between 8:30 a.m. and noon, Monday through Friday.

Tandet Center

Sacred Heart University's College of Health Professions is working with Stamford Hospital to launch a new full-time, 27-month Master of Physician Assistant Studies (MPAS) program, started in fall 2016. The SHU MPAS program is located in Stamford, on the second floor of Stamford Hospital's Tandet Building located next to the main hospital on West Broad Street. The 13,000-square-foot space is in the process of a full renovation and will include a state-of-the-art lab, classrooms and a patient-assessment suite.

West Building

The West Building located at our new West Campus on Easton Turnpike in Fairfield serves as the campus of innovation, providing space for the Isabelle Farrington College of Education, Jack Welch College of Business, School of Computer Science and Engineering, and the FTMA (Film, Television, and Media Arts) program. Classrooms, an innovation lab, and maker space are included in this building. Academic offices for the College of Education, Social Work, and the FTMA academic program reside in this building as well. Administrative Offices in this building include the Registrar's Office, Bursar's Office, Business Office, Information Technology, Marketing and Communications, University Advancement, SHUPAD West, Graduate Student Affairs, and Upward Bound.

New to this building is the iHub, a partnership with Verizon who created, manages, and operates an innovative coworking space here. This is Verizon's first coworking space located on a college campus. For more information, visit our iHub site

There is food services available in this building. Ample parking is located in a two-level parking garage below the building and it is served by a repeat university shuttle service.

WSHU Broadcast Center

The three-story, 21,000 square foot building on Park Avenue that serves as home for WSHU, the onsite National Public Radio station serving Fairfield County and southeastern Connecticut, as well as home to SHU's Public Safety Department was opened in 2018. The venue provides the opportunity for enhanced programming, training and special events for the radio station, in addition to a state-of-the art communication and dispatch center that enhances the Public Safety Department's service needs, responsibilities and requirements.

College of Arts and Sciences

Robin L. Cautin, Ph.D.
Dean

The College of Arts and Sciences is the largest and the most diverse of the five colleges at Sacred Heart University. The College offers Bachelor of Arts and Bachelor of Science degrees; as Associate in Arts and Liberal Arts degree; and a variety of minors and special programs.

The degrees are offered through the following academic departments: Art & Design, Biology, Catholic Studies, Chemistry, Communication Studies, Government, History, Languages and Literatures, Mathematics, Media and Theatre Arts, Philosophy, Theology and Religious Studies, Psychology, Social Work, and Sociology.

The College offers Master's degrees in Chemistry, Broadcast Journalism and Media Production, Criminal Justice, Film and Television Production, Applied Psychology, Sports Communication & Media, and Strategic Communication & Public Relations.

The College of Arts and Sciences strives to provide a learning environment that fosters the growth, development, and nurturing of the entire individual.

DEPARTMENT/ SCHOOL/PROGRAM	MAJOR	CONCENTRATION/ TRACK	MINOR
Biology	Biology	-----	Biology
Biology	Coastal & Marine Science	-----	-----
Biology	Molecular & Cellular Biology	-----	-----
Biology	Neuroscience	-----	-----
Biology	STEM	-----	-----
Catholic Studies	-----	-----	Catholic Studies
Chemistry	Biochemistry	-----	-----
Chemistry	Chemistry	Biochemistry	-----
Chemistry	Chemistry	Traditional	Chemistry
School of Communication, Media & the Arts (SCMA)	Art & Design	-----	-----
SCMA	Art & Design	General Art for Education	-----
SCMA	Art & Design	Graphic Design	Graphic Design
SCMA	Art & Design	Illustration	Illustration
SCMA	Art & Design	Studio Art	Studio Art
SCMA	Communication Studies	-----	-----

SCMA	Communication Studies	Advertising Media/PR	Advertising Media/PR
SCMA	Communication Studies	Sports Media	Sports Media
SCMA	Digital Communication	-----	Digital Communication
SCMA	Media Arts	Film, Television, & Media	Film & Television
SCMA	Media Arts	Journalism	Journalism
SCMA	Media Arts	Performing Arts	-----
SCMA	-----	-----	Dance
SCMA	Theatre Arts	-----	Theatre Arts
SCMA	Theatre Arts	Acting	-----
SCMA	Theatre Arts	Musical Theatre	-----
SCMA	Sports Communication & Media	-----	-----
SCMA	Strategic Communication, Public Relations & Advertising	-----	-----
SCMA	-----	-----	eSports
-----	-----	-----	European Studies
-----	General Studies	-----	-----
Government	Criminal Justice	-----	Criminal Justice
Government	Global Studies	-----	Global Studies
Government	Political Science	-----	Political Science
History	History	-----	History
History	-----	-----	American History
-----	-----	-----	Irish Studies
Languages & Literatures	English	-----	English
Languages & Literatures	English	-----	Creative Writing
Languages & Literatures	-----	-----	Italian

Languages & Literatures	Spanish	-----	Spanish
-----	-----	-----	Latin American Studies
Mathematics	-----	-----	Actuarial Science
Mathematics	Mathematics	-----	Mathematics
-----	-----	-----	Middle Eastern Studies
Music (Academic Program)	-----	-----	Music
Philosophy, Theology, & Religious Studies	Philosophy	-----	Philosophy
Philosophy, Theology, & Religious Studies	Theology & Religious Studies	Theology	Theology & Religious Studies
Psychology	Psychology	-----	Psychology
School of Social Work	Social Work	-----	Social Work
Sociology	-----	-----	Anthropology
Sociology	-----	-----	Human Rights & Social Justice
Sociology	Sociology	-----	Sociology
-----	-----	-----	Women's, Gender & Sexuality Studies

School of Communication, Media and the Arts

The School of Communication, Media & the Arts (SCMA) combines the social and cultural analysis of media and communication technologies with media production, including digital video, broadcast and print journalism, television, radio, photography, advertising, public relations, and digital multimedia. The SCMA curriculum is interdisciplinary by nature and international in scope, blending theory and practice and the historical, contemporary, and mainstream with the alternative.

The department offers six undergraduate majors: Communication Studies (CS), Digital Communication (DC), Media Arts (MA), Sports Communication & Media (SCM), Strategic Communication, Public Relations & Advertising (SCPRA), and Theatre Arts (TA), with the CS major divided into two concentrations—Advertising Media/Public Relations and Sports Media, the MA major divided into two concentrations—Film, Television, and Media and Journalism, and the TA major divided into two concentrations—Acting and Musical Theatre. All six majors explore everything from broadcasting, filmmaking, and journalism to advertising, public relations, web design, and digital and multimedia production. The school gives all of its students immediate access to the latest technology and software in order to prepare them for the career path they choose within the media or communication industries or in another field.

Our overall goal is to produce responsible media scholars, consumers, and communication professionals who 1.) analyze the social effect, moral substance, and aesthetic value of the media, and 2.) learn the social and creative skills involved in the conception, shaping, and execution of their own media/communication projects and career paths.

Faculty

JOSEPH ALICASTRO, B.S.
Clinical Instructor

JAMES (TODD) BARNES, J.D.
Visiting Lecturer

RACHEL BAUER, Ph.D.
Lecturer

LORI BINDIG, Ph.D.
Associate Professor, Department Chair, Communication Studies

JAMES CASTONGUAY, Ph.D.
Professor, Director of SCMA

MARK CONGDON, Ph.D.
Assistant Professor

DEBBIE DANOWSKI, Ph.D.
Associate Professor

RICHARD FALCO, B.A.
Clinical Instructor

GREGORY GOLDA, M.Ed.
Clinical Instructor

SIDNEY GOTTLIEB, Ph.D.
Professor

DAMON MAULUCCI, MFA
Visiting Assistant Professor

ANDREW MILLER, Ph.D.
Associate Professor

PAUL PABST, B.A.
Clinical Instructor

CANDICE PARRISH, Ph.D.
Associate Professor

SARA (Sally) ROSS, Ph.D.
Associate Professor, Department Chair, Media and Theatre Arts

BRIAN THORNE, B.S.
Clinical Instructor

WILLIAM YOUSMAN, Ph.D.
Assistant Professor

SCMA Facilities

The School of Communication, Media & the Arts is housed in the Frank and Marisa Martire Communications Center. Facilities include two full-size television studios, a film sound stage, one flash studio with a robotic camera, two control rooms, one media lab, six individual edit rooms, two screening rooms, a motion-capture lab, a full-featured student radio studio, and one large media theater. In addition, SCMA is the location of some of the most active student groups on campus, and these organizations find new and improved meeting and productions suites in the Martire Center.

Advertising Media/Public Relations Minor

REQUIRED COURSES

Take all of the following:

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 126	History of Advertising & Public Relations	3
CM 227	Advertising & PR Writing	3

One of the following:

CM 230	Digital Publications	3
CM 257	Women & Advertising	3
CM 258	Social Media Strategy	3

One CMS elective (3 credits)

ART AND DESIGN

Real-world art-and-design training set within a liberal-arts-based curriculum is the mission of the Department of Art & Design at Sacred Heart University. Striking a balance between cutting-edge digital technology and the foundations of drawing, illustration, and painting affords invaluable diversity in preparation for the professional marketplace. Through its extensive offerings carried out by means of intense active and engaged learning programs, the department supports the overall mission of the University. Along with the most up-to-date digital design facilities and a commitment to contemporary graphic

design, illustration, and studio arts as well as preparing for the constantly changing world of digital design, the department develops designers and artists who are critical thinkers and contributing members of society, their communities, and their professions. It is the department's goal to educate designers and artists who are always able to respond to an ever-changing world.

Internships in Art & Design

The Department of Art & Design is committed to combining education for life with preparation for professional excellence. The department is ideally situated within the vast design, art, and cultural resources of Fairfield County and the metropolitan New York City area. The location provides access to the country's richest base of world-class digital design, marketing, art, and advertising firms offering an unmatched opportunity to prepare students for the transition from the classroom to the visual arts workplace.

Faculty

JOHN DE GRAFFENRIED, MFA
Associate Professor

NATHAN LEWIS, MFA
Professor

MARY TRESCHITTA, MFA
Associate Professor, Department Chair

JONATHAN WALKER, MFA
Associate Professor

Art & Design Computer Lab and Studios

Facilities include a digital-design laboratory with state-of-the-art Macintosh computers and a second audiovisual design studio, both with complete wireless computer support, a full complement of the latest versions of all industry-standard software, multiple professional-grade color printers, and large- and standard-format scanners. Facilities also include painting, design, drawing, and illustration studios.

Portable Computing Program for Art & Design Majors

The Department of Art & Design is able to offer all art majors with design training the state-of-the-art Adobe Creative Cloud software suite. We also strongly suggest the use of the latest Apple MacBook Pro. Latest suggested specifications may be obtained by calling the department and asking for the Technology Manager. Art & Design is also able to offer on-site Apple-certified technical support through the department's Technology Manager in order to handle training, updates, maintenance, and repair issues exclusively to our majors.

Art and Design Major

The major in Art & Design requires the completion of 51 credits for a concentration in Graphic Design, Illustration, Studio Arts, or General Art for Education.

CONCENTRATION IN GRAPHIC DESIGN (51 CREDITS)

Required Courses in Graphic Design

Foundation Courses

AR 101	Art in the Western World	3
AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 114	Digital Design Basics	3
AR 120	Drawing I	3

Advanced-Level Required Courses in Graphic Design

AR 211	Graphic Design I	3
AR 220	Drawing II: Life	3
AR 225	Design for the Web	3
AR 229	Introduction to Painting	3
AR 232	Introduction to Watercolor	3
AR 250	Introduction to Illustration	3
AR 270	Graphic Design II	3
AR 271	Graphic Design III	3
AR 276	Interactive 2D Animation	3
AR 370	Graphic Design IV	3
AR 390	Graphic Design Portfolio	3

Students must take at least one of these courses:

AR 272	Advertising Design	3
AR 280	Interactive Motion Graphics	3

CONCENTRATION IN ILLUSTRATION (51 CREDITS)

Required Courses in Illustration

Foundation Courses

AR 101	Art in the Western World	3
AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 114	Digital Design Basics	3
AR 120	Drawing I	3

History Elec. The student must choose from one of the following courses:

AR 104	American Art: Colonial to Modern	3
AR 201	Studies in Modern Art	3
AR 204	Renaissance Art	3
AR 205	European Art: 17th-19th Century	3
AR 206	Contemporary Art	3
	or	
AR 208	Introduction to Eastern Art	3

Advanced-Level Required Courses in Illustration

AR 211	Graphic Design I	3
AR 220	Drawing II: Life	3
AR 221	Drawing III	3
AR 225	Design for the Web	3
AR 229	Introduction to Painting	3
AR 230	Painting II	3
AR 250	Introduction to Illustration	3
AR 260	Illustration II	3
AR 261	Illustration III	3
AR 360	Illustration IV	3
AR 392	Illustration Portfolio	3

CONCENTRATION IN STUDIO ART (51 CREDITS)

Required Courses in Studio Art

Foundation Courses

AR 101	Art in the Western World	3
AR 110	Design: Visual Organization	3
AR 111	Design: Color	3

AR 114	Digital Design Basics	3
AR 120	Drawing I	3

History Elec. The student must choose from one of the following courses:

AR 104	American Art: Colonial to Modern	3
AR 201	Studies in Modern Art	3
AR 204	Renaissance Art	3
AR 205	European Art: 17th-19th Century	3
AR 206	Contemporary Art	3
	or	
AR 208	Introduction to Eastern Art	3

Advanced-Level Required Courses in Studio Art

AR 142	Methods & Materials for the Classroom	3
AR 211	Graphic Design I	3
AR 220	Drawing II: Life	3
AR 221	Drawing III	3
AR 225	Design for the Web	3
AR 229	Introduction to Painting	3
AR 230	Painting II	3
AR 231	Painting III	3
AR 250	Introduction to Illustration	3
AR 260	Illustration II	3
AR 391	Senior Project	3

CONCENTRATION IN GENERAL ART FOR EDUCATION (51 CREDITS)

Required Courses for General Art for Education (39 credits)

Foundation Courses

AR 101	Art in the Western World	3
AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 114	Digital Design Basics	3
AR 120	Drawing I	3
AR 201	Studies in Modern Art	3

Advanced-Level Required Courses General Art for Education

AR 142	Methods & Materials for the Classroom	3
AR 211	Graphic Design I	3
AR 220	Drawing II: Life	3
AR 225	Design for the Web	3
AR 229	Introduction to Painting	3
AR 250	Introduction to Illustration	3

Required Supporting Courses

These required supporting courses for the 5-year MAT program should be taken within the General Education requirements along with any prerequisites:

HI 222	United States History to 1865	3
HI 223	United States History Since 1865	3
	or	
PS 273	Adolescent Development	3

Minors in Art and Design

The minors in Art & Design requires the completion of 18 credits.

Graphic Design Minor

REQUIRED COURSES FOR GRAPHIC DESIGN MINOR

Take all of the following

AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 114	Digital Design Basics	3
AR 120	Drawing I	3
AR 211	Graphic Design I	3

History Elec. The student must choose from one of the following courses:

AR 104	American Art: Colonial to Modern	3
AR 201	Studies in Modern Art	3
AR 204	Renaissance Art	3
AR 205	European Art: 17th-19th Century	3
AR 206	Contemporary Art	3
	or	
AR 208	Introduction to Eastern Art	3

Students must select at least one of the following courses:

AR 225	Design for the Web	3
AR 270	Graphic Design II	3
AR 276	Interactive 2D Animation	3

Illustration Minor

REQUIRED COURSES FOR ILLUSTRATION MINOR

Take all of the following

AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 120	Drawing I	3
AR 220	Drawing II: Life	3
AR 250	Introduction to Illustration	3
AR 260	Illustration II	3

Studio Art Minor

REQUIRED COURSES FOR STUDIO ART MINOR

Take all of the following

AR 110	Design: Visual Organization	3
AR 111	Design: Color	3
AR 120	Drawing I	3
AR 220	Drawing II: Life	3
AR 229	Introduction to Painting	3
AR 230	Painting II	3

Communication Studies Major

The Communication Studies (CS) major, with concentrations in Advertising Media/Public Relations and Sports Media, is a distinct major that moves SHU students through a unique educational pathway. With its emphasis on media production and the cultural and critical interrogation of the media, the CS major produces graduates who are ethically aware content creators across multiple media platforms. CS majors are socially responsible twenty-first-century digital citizens who explore the intersection of media and culture and specifically the role of

sports, advertising, and public relations in society. As part of this major, students produce in-depth presentations, campaigns, and written work in addition to finishing with a capstone project that showcases both their production skills and their critical thinking ability.

Communication Studies majors acquire the knowledge and technical skill to pursue careers in public relations, advertising, and sports media and develop a theoretical, aesthetic, and historical understanding of the professional communication field.

The major in Communication Studies consists of 48 credit hours, including 10 required courses and 18 elective credits. Students may choose either the Advertising Media/Public Relations concentration or the Sports Media concentration as follows:

PROGRAM REQUIREMENTS

Required Courses for Major in Communication Studies

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 230	Digital Publications	3
CM 258	Social Media Strategy	3
CM 301	Advanced Seminar in Communication	3
CM 397/398	Senior Project I and II	3 CR each

Required Courses for Advertising Media/Public Relations Concentration

CM 126	History of Advertising & Public Relations	3
CM 211	News Writing & Reporting I	3
	or	
CM 256	Magazines & Body Image	3
	or	
CM 257	Women & Advertising	3
CM 227	Advertising & PR Writing	3

Required Courses for Sports Media Concentration

CM 211	News Writing & Reporting I	3
	or	
CM 271	TV News Production I	3
	or	
CM 300	Special Topics in Multimedia Production	3
CM 252	Sport, Communication & Culture	3
CM 272/372	Sports Broadcasting I and II	3 CR each

In addition, six (6) CMS electives are required of all Communication Studies Majors.

Three (3) of these must be in media production courses and three (3) must be in media history or theory.

Production (Choose Three)

CM 221	Digital Film & Video Production I	3
CM 222/322	Television Studio Production I and II	3 CR each
CM 223	Digital Photography I	3
CM 224	Democratic Technologies	3
CM 225	Multimedia Field Production	3
CM 226	Magazine Production I	3
CM 326	Magazine Production II	3
CM 227	Advertising & PR Writing	3

CM 228	Radio Production: Journalism/Podcasting	3
CM 229	Photojournalism	3
CM 241	Comics & Animation	3
CM 271	TV News Production I	3
CM 272/372	Sports Broadcasting I and II	3 CR each
CM 273	Television & New Media Journalism	3
CM 275	DVD Authoring	3
CM 276	Digital Editing	3
CM 277	Screenwriting	3
CM 278	Broadcast News Reporting	3
CM 300	Special Topics in Multimedia Production	3
CM 311	News Writing & Reporting II	3
CM 325	Visual FX & Motion Graphics	3
CM 396	Internship	1-6

History and Theory (Choose Three)

CM 121	History of Film I	3
CM 122	History of Film II	3
CM 123	History of Film III	3
CM 124	History of Broadcasting	3
CM 125	History of Journalism	3
CM 126	History of Advertising & Public Relations	3
CM 212	Media Literacy	3
CM 251	Studies in Self-Help Books	3
CM 253	Digital Culture	3
CM 254	Media & Democracy	3
CM 255	History of Documentary Still Photography	3
CM 256	Magazines & Body Image	3
CM 257	Women & Advertising	3
CM 299	Special Topics in Communication & Media Studies	3
CM 351	Women in Film & Television	3
CM 352	Documentary Film/Television	3
CM 353	National Cinemas	3
CM 354	Film & Television Genres	3
CM 355	Film & Television Directors	3

Dance Minor

REQUIRED COURSES

Take all of the following:

DA 100	Introduction to Dance History	3
DA 310	Social Issues Through Dance	3
DA	12 credits of dance electives	6

Subtotal: 18

No more than 6 credits of performance (these are the 1 credit classes)

Digital Communication Major

Digital Communication (DC) is an interdisciplinary major housed in the Department of Communication and Media Studies and supported by courses offered through Computer Science and Information Technology, Art and Design, and CMS. The program is directed toward students who

wish to become leaders in creating the communication environment of the future and to those interested in the broader implications of understanding the theory as well as the practice of communication and technology. This is a program for those who understand that communication and technology are the unifying forces in the world, that cyberspace represents the marriage of humanism and technology, and that liberal arts and technology are not mutually exclusive terms.

The major in Digital Communication consists of 42 credit hours, including 12 required courses and 6 elective credits. In addition, CS 100 must be taken as part of the elective core. For DC majors, CM 101 is a prerequisite for all other courses in the major.

PROGRAM REQUIREMENTS

Required Courses

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 230	Digital Publications	3
CM 254	Media & Democracy	3
CM 258	Social Media Strategy	3
CM 397/398	Senior Project I and II	3 CR each
CM	One CM elective	3
CS 101	Web Design and Visual Tools for non-majors	3
CS 104	Digital Animation and Gaming for non-majors	3
CS 232	Human-Computer Interaction	3
CS 319	Computer Ethics	3

Elective Courses

Students are required to take an additional six credits of required coursework and most students select these courses from the departments of Art and Design, Computer Science, and/or Communication and Media Studies. DC Majors may venture into other departments for these required electives, but in all cases courses must be approved in writing by the program director. Possible course selections include:

AR 114	Digital Design Basics	3
AR 211	Graphic Design I	3
CM 124	History of Broadcasting	3
CM 126	History of Advertising & Public Relations	3
CM 221	Digital Film & Video Production I	3
CM 225	Multimedia Field Production	3
CM 227	Advertising & PR Writing	3
CM 251	Studies in Self-Help Books	3
CM 256	Magazines & Body Image	3
CM 299	Special Topics in Communication & Media Studies	3
CM 300	Special Topics in Multimedia Production	3
SO 257	Science, Technology, & Society	3

Digital Communication Minor

REQUIRED COURSES

Take all of the following:

CM 101	Introduction to Media Culture	3
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CM 102	Introduction to Media Production	3
CS 101	Web Design and Visual Tools for non-majors	3
CS 104	Digital Animation and Gaming for non-majors	3
CS 232	Human-Computer Interaction	3

One of the following:

CM 253	Digital Culture	3
CM 254	Media & Democracy	3
CM 258	Social Media Strategy	3

Esports Minor

THE MINOR IN ESPORTS REQUIRES THE COMPLETION OF 18 CREDITS

Required Courses

ES 201	Introduction to eSports Industry	3
SM 265	Sport Marketing	3
SM 281	Sport Venue & Event Management	3
CM 276	Digital Editing	3
CM 272/372	Sports Broadcasting I and II	3 CR each
ES 401	Capstone in eSports	3

Film, Television, and Media Minor

REQUIRED COURSES

Take all of the following:

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 201	Art of the Moving Image	3
CM 212	Media Literacy	3

One of the following:

CM 121	History of Film I	3
CM 122	History of Film II	3
CM 123	History of Film III	3
CM 124	History of Broadcasting	3

One CMS elective (3 credits)

Journalism Minor

REQUIRED COURSES

Take all of the following:

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 125	History of Journalism	3
CM 211	News Writing & Reporting I	3

One of the following:

CM 226	Magazine Production I	3
CM 229	Photojournalism	3
CM 271	TV News Production I	3

One CMS elective (3 credits)

Media Arts Major

Students majoring in Media Arts have the choice of two concentrations: Film, Television, and Media (FTM) or Journalism. Media Arts majors concentrating in FTM are required to take courses relevant to their area of study with a particular emphasis on the moving image, while those concentrating in Journalism will take courses focusing on written and multimedia journalism. These academic paths, however, are meant to be enriching rather than confining. The Department of Communication and Media Studies understands that our field engages with a constantly changing media landscape and we are committed to giving our students ample room within the major to choose their own path.

THE MA MAJOR REQUIRES THE COMPLETION OF 48 CREDITS AS FOLLOWS:

Required Courses for All Majors

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 301	Advanced Seminar in Communication	3
CM 397/398	Senior Project I and II	3 CR each

Required Courses for Film, Television, and Media Concentration

CM 121	History of Film I or	3
CM 122	History of Film II or	3
CM 123	History of Film III or	3
CM 124	History of Broadcasting	3
CM 201	Art of the Moving Image	3
CM 212	Media Literacy	3

Required Courses for Journalism Concentration

CM 124	History of Broadcasting or	3
CM 125	History of Journalism or	3
CM 126	History of Advertising & Public Relations	3
CM 211	News Writing & Reporting I	3
CM 226	Magazine Production I or	3
CM 229	Photojournalism or	3
CM 271	TV News Production I	3

In addition, eight CMS electives (24 credits) are required of all Media Arts majors.

Three of these must be in media production courses and three must be in media history or theory. The two additional electives may be in history and theory or production.

Production (Choose Three)

CM 221	Digital Film & Video Production I	3
CM 222/322	Television Studio Production I and II	3 CR each
CM 223	Digital Photography I	3
CM 224	Democratic Technologies	3

CM 225	Multimedia Field Production	3
CM 226	Magazine Production I	3
CM 326	Magazine Production II	3
CM 227	Advertising & PR Writing	3
CM 228	Radio Production: Journalism/Podcasting	3
CM 229	Photojournalism	3
CM 241	Comics & Animation	3
CM 271	TV News Production I	3
CM 272/372	Sports Broadcasting I and II	3 CR each
CM 273	Television & New Media Journalism	3
CM 275	DVD Authoring	3
CM 276	Digital Editing	3
CM 277	Screenwriting	3
CM 278	Broadcast News Reporting	3
CM 300	Special Topics in Multimedia Production	3
CM 311	News Writing & Reporting II	3
CM 325	Visual FX & Motion Graphics	3
CM 396	Internship	1-6

History and Theory (Choose Three)

CM 121	History of Film I	3
CM 122	History of Film II	3
CM 123	History of Film III	3
CM 124	History of Broadcasting	3
CM 125	History of Journalism	3
CM 126	History of Advertising & Public Relations	3
CM 212	Media Literacy	3
CM 251	Studies in Self-Help Books	3
CM 253	Digital Culture	3
CM 254	Media & Democracy	3
CM 255	History of Documentary Still Photography	3
CM 256	Magazines & Body Image	3
CM 257	Women & Advertising	3
CM 299	Special Topics in Communication & Media Studies	3
CM 351	Women in Film & Television	3
CM 352	Documentary Film/Television	3
CM 353	National Cinemas	3
CM 354	Film & Television Genres	3
CM 355	Film & Television Directors	3

Elec.

Two additional courses in History and Theory or Production

A Media Studies advisor may prescribe and approve alternatives.

Sports Communication and Media Major

The Sports Communication and Media (SCM) major is specifically designed from a humanities tradition to blend together the theory and practice of studying sports media, and to capitalize on Sacred Heart University's ideal geographic location in the heart of the US sports media industry. Students will receive intensive training in the art and craft of digital storytelling across multiple media platforms from traditional television to contemporary digital media as they move through a program designed to produce responsible and participatory citizens with well-developed critical thinking skills. Through the program's emphasis

on a hands-on curriculum, SCM majors will learn the advanced twenty-first century professional skills necessary to communicate effectively across a variety of media platforms.

PROGRAM REQUIREMENTS

The major in Sports Communication and Media consists of 51 credit hours - 11 required courses (33 credits) and 18 elective credits:

Required Courses for Major in Sports Communication and Media

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 128	History of Sports Media	3
CM 252	Sport, Communication & Culture	3
CM 272/372	Sports Broadcasting I and II	3 CR each
CM 274	Contemporary Sports Broadcasting	3
CM 276	Digital Editing	3
CM 301	Advanced Seminar in Communication	3
CM 397/398	Senior Project I and II	3 CR each

Subtotal: 33

Elective Course Requirements

Six (6) CMS elective courses are required. Three (3) of these must be in media production courses and three (3) must be in media history or theory.

Subtotal: 18

Production Courses

Choose 3 courses from the below:

CM 211	News Writing & Reporting I	3
CM 221	Digital Film & Video Production I	3
CM 222/322	Television Studio Production I and II	3 CR each
CM 224	Democratic Technologies	3
CM 225	Multimedia Field Production	3
CM 226	Magazine Production I	3
CM 227	Advertising & PR Writing	3
CM 229	Photojournalism	3
CM 230	Digital Publications	3
CM 231	Introduction to International Field Production	3
CM 241	Comics & Animation	3
CM 258	Social Media Strategy	3
CM 271	TV News Production I	3
CM 277	Screenwriting	3
CM 278	Broadcast News Reporting	3
CM 300	Special Topics in Multimedia Production	3
CM 311	News Writing & Reporting II	3
CM 321	Advanced Topics in Film & TV Production	3
CM 325	Visual FX & Motion Graphics	3
CM 326	Magazine Production II	3
CM 356	Advertising & PR Campaigns	3
CM 396	Internship	1-6

Subtotal: 9

History and Theory Courses

Choose 3 courses from the below:

CM 121	History of Film I	3
CM 122	History of Film II	3
CM 123	History of Film III	3
CM 124	History of Broadcasting	3
CM 125	History of Journalism	3
CM 126	History of Advertising & Public Relations	3
CM 201	Art of the Moving Image	3
CM 212	Media Literacy	3
CM 251	Studies in Self-Help Books	3
CM 253	Digital Culture	3
CM 254	Media & Democracy	3
CM 256	Magazines & Body Image	3
CM 257	Women & Advertising	3
CM 299	Special Topics in Communication & Media Studies	3
CM 351	Women in Film & Television	3
CM 353	National Cinemas	3
CM 354	Film & Television Genres	3
CM 355	Film & Television Directors	3
CM 357	Studies in Advertising and PR	3

Subtotal: 9

Total Credit Hours: 51

Sports Media Minor

REQUIRED COURSES

Take all of the following:

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 252	Sport, Communication & Culture	3
CM 272/372	Sports Broadcasting I and II	3 CR each

One of the following:

CM 230	Digital Publications	3
CM 258	Social Media Strategy	3
CM 274	Contemporary Sports Broadcasting	3

One CMS elective (3 credits)

Strategic Communication Public Relations and Advertising Major

The Strategic Communication, Public Relations, and Advertising (SCPRA) major is a blend of theory and practice. SCPRA majors will acquire the knowledge and technical skills to pursue careers in public relations and advertising as well as develop a theoretical, aesthetic, and historical understanding of communication. SCPRA students explore the social impact of communication, which prepares them for the profound ethical and social responsibilities that come with being a professional communicator and engaged citizen. SCPRA majors produce in-depth presentations, campaigns and written work across a variety of multimedia platforms in addition to creating a senior project that showcases both their production skills and critical thinking ability.

PROGRAM REQUIREMENTS

The major in Strategic Communication, Public Relations, & Advertising consists of 51 credit hours - 11 required courses (33 credits) and 18 elective credits:

Required Courses for Major in SCPRA

CM 101	Introduction to Media Culture	3
CM 102	Introduction to Media Production	3
CM 126	History of Advertising & Public Relations	3
CM 227	Advertising & PR Writing	3
CM 230	Digital Publications	3
CM 257	Women & Advertising	3
	or	
CM 357	Studies in Advertising and PR	3
CM 258	Social Media Strategy	3
CM 301	Advanced Seminar in Communication	3
CM 356	Advertising & PR Campaigns	3
CM 397/398	Senior Project I and II	3 CR each

Subtotal: 33*Elective Course Requirements*

Six (6) CMS electives are required. Three (3) of these must be in media production courses and three (3) must be in media history or theory.

Subtotal: 18*Production Courses*

Choose 3 courses from the below:

CM 171	Broadcast News Production I	3
CM 211	News Writing & Reporting I	3
CM 221	Digital Film & Video Production I	3
CM 222/322	Television Studio Production I and II	3 CR each
CM 223	Digital Photography I	3
CM 224	Democratic Technologies	3
CM 225	Multimedia Field Production	3
CM 226	Magazine Production I	3
CM 228	Radio Production: Journalism/Podcasting	3
CM 229	Photojournalism	3
CM 230	Digital Publications	3
CM 231	Introduction to International Field Production	3
CM 235	Acting for the Camera	3
CM 241	Comics & Animation	3
CM 271	TV News Production I	3
CM 272/372	Sports Broadcasting I and II	3 CR each
CM 274	Contemporary Sports Broadcasting	3
CM 276	Digital Editing	3
CM 277	Screenwriting	3
CM 278	Broadcast News Reporting	3
CM 280	Immersive Media Production	3
CM 300	Special Topics in Multimedia Production	3
CM 311	News Writing & Reporting II	3
CM 312	Freelance Writing	3
CM 321	Advanced Topics in Film & TV Production	3
CM 325	Visual FX & Motion Graphics	3
CM 326	Magazine Production II	3
CM 331	Topics in Journalism Production	3

CM 371	TV News Magazine II	3
CM 396	Internship	1-6

Subtotal: 9*History and Theory Courses*

Choose 3 courses from the below:

CM 121	History of Film I	3
CM 122	History of Film II	3
CM 123	History of Film III	3
CM 124	History of Broadcasting	3
CM 125	History of Journalism	3
CM 128	History of Sports Media	3
CM 201	Art of the Moving Image	3
CM 212	Media Literacy	3
CM 251	Studies in Self-Help Books	3
CM 252	Sport, Communication & Culture	3
CM 253	Digital Culture	3
CM 254	Media & Democracy	3
CM 256	Magazines & Body Image	3
CM 257	Women & Advertising	3
CM 299	Special Topics in Communication & Media Studies	3
CM 351	Women in Film & Television	3
CM 353	National Cinemas	3
CM 354	Film & Television Genres	3
CM 355	Film & Television Directors	3
CM 357	Studies in Advertising and PR	3

Subtotal: 9*Total Credit Hours: 51***Theatre Arts Major**

Concentration in Musical Theatre or Concentration in Acting

DEGREE REQUIREMENTS (36 CREDITS)*Required Courses for Theatre Arts Major*

THR 112	History of Theatre I	3
THR 130	Stagecraft	3
THR 201	Scene Study	3
THR 202	Script Analysis	3
THR 212	History of Theatre II	3
THR 399	Capstone Production Lab	3

Required Courses for Concentration in Acting

THR 110	Acting I	3
THR 111	Acting II	3
THR 140	Directing I	3
THR 240	Playwriting I	3
THR 280	Acting Styles	3
THR 301	Advanced Scene Study	3

Required Courses for Concentration in Musical Theatre

DA 106	Dance for Musical Theater I	3
DA 206	Dance for Musical Theater II	3
THR 120	Voice for Musical Theatre I	3
THR 121	Voice for Musical Theatre II	3
THR 210	Acting for Musical Theater I	3
THR 211	Acting for Musical Theater II	3

Electives

CM 277	Screenwriting	3
DA 250	Choreography I	3
DA 260	Choreography II	3
MU 121	Musicianship I	3
MU 131	Private Lessons	1
THR 102	Blackbox Stage Production	1
THR 103	Mainstage Production	1
THR 141	Directing II	3
THR 150	Introduction to Costumes	3
THR 230	Children's Theater I	3
THR 231	Children's Theater II	3
THR 241	Playwriting II	3
THR 299	Special Topics in Theatre	3

Theatre Arts Minor**REQUIRED COURSES**

Take the following: (18 credits)

THR 112	History of Theatre I	3
THR 212	History of Theatre II	3
THR 210	Acting for Musical Theater I or	3
THR 110	Acting I	3
THR 211	Acting for Musical Theater II or	3
THR 111	Acting II	3
	6 credits of theatre electives	6

No more than 3 credits of performance credits (these are the 1 credit classes)

Anthropology

Anthropology is the study of human culture, behavior, and biology from a holistic, global, and comparative perspective. As a field of study, it examines the similarities, differences, and development of human culture, behavior, and biology. The Anthropology curriculum emphasizes the subfield of cultural anthropology. Cultural anthropology focuses on the concept of culture, role of culture in contemporary problems and issues, and on the wide range of human cultural patterns in the contemporary world.

Anthropology Minor

Students will be required to take 18 credits (6 courses) to complete the minor in Anthropology studies. The 18 credits include two required introductory courses and a minimum of four Anthropology electives.

PROGRAM REQUIREMENTS

The required and elective course requirements are distributed as follows:

AN 110	Human Cultural Diversity	3
SO 110	Sociological Imagination	3
	Three Anthropology electives	9

A fourth Anthropology elective or a course from the following list:

HI 212	Contemporary Latin America	3
HI 225	African-American History	3
HI 238	The Modern Middle East	3
PH 310	Philosophy of Race	3
PH 311	Women, Gender, & Philosophy	3
PH 376	Philosophy of the Person	3
TRS 271	Celtic Religious Traditions	3

Biology

The Biology Department's innovative and interdisciplinary curricula combine a rigorous grounding in the foundational principles of biological science at all scales of organization from molecules to ecosystems with the opportunity for students to specialize in areas of their own choosing. The program reflects the complexity and diversity of the living world and emphasizes the unifying principles of biological science: evolution, transformations of energy and matter, structure and function, information flow exchange and storage, and the higher-level complexity inherent in multi-component systems.*

Graduates of our program will be conversant in the cellular and molecular basis of life, the design and functioning of individual organisms, and the ecological interactions of organisms. They will respect the primacy of evidence and appreciate its role in the historical development and advancement of a discipline. Graduates will be able to analyze evidence in a critical fashion through exposure to data analysis in literature and in laboratory coursework. Finally, graduates will be cognizant of the possible social impact of our ever-increasing understanding of biological science and will be prepared to wrestle with the difficult ethical conflicts resulting from such advancement.

Students may choose from one of five different majors within the Biology Department to support these academic objectives and their future career plans: Biology, Molecular and Cellular Biology, Coastal and Marine Science, Neuroscience, or STEM. The first four of these majors (Biology, Molecular and Cellular Biology, Coastal and Marine Science, Neuroscience) are based on a four-course foundational series: Concepts in Biology I: Molecules to Cells; Concepts in Biology II: Cells to Organisms; Genetics & Evolution, and Ecology and Evolution. Accompanying the lecture portion of the foundational courses are lab courses that incorporate multiweek open-ended investigations that reinforce the concepts under study and emphasize the process of science and scientific writing. The Biology major emphasizes a broad training in biology by requiring one upper-division elective in each of three areas corresponding to different levels of biological organization. The Molecular and Cellular Biology major emphasizes coursework in molecular and cellular areas of biology and related disciplines and is ideal for students preparing for graduate or professional training in the biomedical sciences or employment in the pharmaceutical and biotechnology industries. The Coastal and Marine Science major is designed to prepare students for graduate training and/or careers in coastal science, ecology, marine biology, conservation biology, or other environmentally focused specialties. Students pursuing the Neuroscience major will have the opportunity to integrate coursework in neurobiology with coursework in psychology. The Neuroscience major is excellent preparation for graduate and professional training in the biomedical sciences and careers in the health professions. The Molecular and

Cellular Biology, Coastal and Marine Science, and Neuroscience majors also require hands-on learning in the form of supervised research and/or internship and these experiences are also strongly encouraged for students pursuing the Biology major. The fifth major the Department offers (STEM) is designed to prepare future elementary school teachers by expanding the content knowledge in various STEM fields while also focusing on the interdisciplinary nature of STEM.

*Vision and change in undergraduate biology education: A call to action (2010). Washington DC: American Association for the Advancement of Science.

Faculty

SANKHIROS BABPOOR, Ph.D.
Lecturer

KIRK A. BARTHOLOMEW, Ph.D.
Associate Professor

MARK A. BEEKEY, Ph.D.
Professor, Department Chair

SUZANNE M. DESCHÊNES, Ph.D.
Associate Professor

MARK I. JAREB, Ph.D.
Associate Professor

JO-MARIE KASINAK, M.S.
Instructor

DIKA KULJIS, Ph.D.
Lecturer

MARIAN LEAL, M.S.
Instructor

JENNIFER H. MATTEI, Ph.D.
Professor

MARILYN H. MOSS, M.D.
Lecturer

H. SANDRA PELLE, Ph.D.
Lecturer

BARBARA J. PIERCE, Ph.D.
Professor

NICOLE M. ROY, Ph.D.
Professor

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Assistant Professor

LATINA M. STEELE, Ph.D.
Associate Professor

ASHLEY A. STOEHR, Ph.D.
Lecturer

GEFFREY F. STOPPER, Ph.D.
Associate Professor

THOMAS A. TERLEPH, Ph.D.
Professor

VALERIE A. WHERLEY, Ph.D.
Advanced Lecturer, Director of Pre-Health Advisement Program

ALYSSA WORONIK, Ph.D.
Lecturer

Biology Laboratories

The University supports the biology program with six teaching laboratories fully equipped to instruct students in all areas of biological science. In addition, all faculty at the level of assistant professor and above have dedicated research space and equipment appropriate to conduct research in their areas of specialization. Dedicated multiuser areas are also available for conducting research in a variety of areas and include a climate-controlled greenhouse, an analytical instrumentation room for environmental analysis, a marine research tank room, a fluorescence microscopy and imaging facility, and dedicated spaces for molecular biology research instrumentation. The department maintains and consistently updates the specialized equipment required to both teach and do research in the biological sciences. Amongst our more recent acquisitions are a suite of equipment for sub-meter GPS surveys and data collection, real-time PCR instrumentation, automated data capture and analysis software for experimentation in animal behavior, and two instruments for sophisticated analysis of contaminants in environmental samples: a combined gas chromatography/mass spectrometry instrument for organic chemical analysis and an inductively coupled plasma emission spectrometer for inorganic contaminants.

Biology Major

The BS degrees in Biology, Molecular and Cellular Biology, Coastal Marine Science, and Neuroscience require completion of 39 to 42 credits in biology and 23 to 38 credits in supporting courses depending on the major students choose. Many of these courses also fulfill the requirements of the University's Foundational or Thematic Liberal Arts Core.

PROGRAM REQUIREMENTS

Required Courses for All Majors

Required Biology Core Courses

BI 111	Concepts in Biology I: Molecules to Cells	3
BI 112	Concepts in Biology II: Cells to Organisms	3
BI 113	Concepts in Biology I Laboratory	1
BI 114	Concepts in Biology II Laboratory	1
BI 201	Genetics & Evolution	3
BI 202	Ecology & Evolution	3

BI 203	Genetics & Evolution Laboratory	1	BI 255	Animal Behavior	4
BI 204	Ecology & Evolution Laboratory	1	BI 260	Marine Biology	4
BI 399	Senior Seminar	2	BI 265	Conservation Biology	4

Required Supporting Courses for All Majors

CH 151	General Chemistry I	3	BI 274	Coastal Management	3
CH 152	General Chemistry II	3	BI 276	Oceanography	3
CH 153	General Chemistry Laboratory I	1	BI 278	Coastal Ecology	3
CH 154	General Chemistry Laboratory II	1	BI 305	Behavioral Neurobiology	3
CH 221	Organic Chemistry I	3	BI 350/351	Ecology (3 cr) with Lab (1 cr)	4
CH 223	Organic Chemistry Laboratory I	1			

Organismal Area

MA 131	Elementary Statistics	3	PS 350/BI 205	Essentials of Neuroscience	3
			BI 210/211	Plant Biology (3 cr) with Lab (1 cr)	4
			BI 230	Microbiology	4
			BI 240/241	Invertebrate Biology (3 cr) with Lab (1 cr)	4
MA 140	Precalculus	4	BI 245/246	Vertebrate Biology (3 cr) with Lab (1 cr)	4
	or above (MA 151 Calculus I is recommended)		BI 255	Animal Behavior	4
			BI 260	Marine Biology	4

Additional Required Courses for the Biology Major

Students must select six additional Biology courses at the 200 level or higher, comprising at least one course from the Environmental, Organismal, and Molecular areas. Two of the six courses must be at the 300 level. Three of the six courses must include labs (one at the 300 level). Three credits of research (BI 390) or internship (BI 360) are encouraged. Human Anatomy & Physiology I (BI 206) does not count toward this requirement, but Human Anatomy & Physiology II (BI 207) can count. For the most up to date listing of courses and special topics, please consult the listing maintained on the Biology Department's website.

Environmental Area

BI 210/211	Plant Biology (3 cr) with Lab (1 cr)	4	BI 305	Behavioral Neurobiology	3
BI 230	Microbiology	4	BI 306	Pharmacology	3
BI 240/241	Invertebrate Biology (3 cr) with Lab (1 cr)	4	BI 312/314	Systems Physiology (3 cr) with Lab (1 cr)	4
BI 245/246	Vertebrate Biology (3 cr) with Lab (1 cr)	4	BI 325	Immunology	3
			BI 340	Cancer Biology	3
			BI 345	Neurobiology	4

Molecular Area

BI 230	Microbiology	4	BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
BI 306	Pharmacology	3			

BI 320	Applied Molecular Genetics	4
BI 325	Immunology	3
BI 335	Topics in Genetics	3
BI 340	Cancer Biology	3
BI 345	Neurobiology	4
BI 355	Molecular Biology	4

Additional Required Courses for the Molecular and Cellular Biology Major

BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
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BI 320	Applied Molecular Genetics	4
	or	
BI 355	Molecular Biology	4

BI 360	Internship	3-6
	or	
BI 390	Supervised Research	3

Three additional electives (1 with lab) must be taken, two of which must be chosen from courses classified in the Molecular Area (see above and Biology Department website).

Additional Required Supporting Courses for the Molecular and Cellular Biology Major

MA 151	Calculus I	4
CH 222	Organic Chemistry II	3
CH 224	Organic Chemistry Laboratory II	1
CH 341	Biochemistry I	3
CH 343	Biochemistry Laboratory I	1

MA 151: strongly suggested—fulfills the MA 140 or above requirement

Additional Required Courses for the Coastal and Marine Science Major

BI 274	Coastal Management	3
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BI 278	Coastal Ecology	3
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BI 303	GIS for Environmental Science	
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BI 360	Internship	3-6
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or

BI 390	Supervised Research	3
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Four additional electives (3 with lab) must be taken, two of which must be chosen from courses classified in the Environmental Area, and one of which must be chosen in the Organismal area. One of the four courses must be at the 300 level. (See above and Biology Department website.)

Additional Required Courses for the Neuroscience Major

Take all of the following

PS 350/BI 205	Essentials of Neuroscience	3
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BI 345	Neurobiology	4
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BI 360	Internship	3-6
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or

BI 390	Supervised Research	3
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or

PS 397	Capstone: Psychological Research	3
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PS 110	Introduction to Psychology	3
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PS 201	Research Design & Analysis I	3
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Five additional courses from the following list (at least two must be in Biology and two must be in Psychology)

BI 255	Animal Behavior	4
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or

BI 305	Behavioral Neurobiology	3
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BI 299	Special Topics in Biology	3-4	BI 230	Microbiology	4
BI 306	Pharmacology	3	BI 240/241	Invertebrate Biology (3 cr) with Lab (1 cr)	4
BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4	BI 245/246	Vertebrate Biology (3 cr) with Lab (1 cr)	4
PS 335	Human & Animal Learning	3	BI 255	Animal Behavior	4
PS 352	Hormones & Behavior	3	BI 260	Marine Biology	4
PS 353	Psychopharmacology	3	BI 265	Conservation Biology	4
PS 389	Advanced Special Topics	3	BI 274	Coastal Management	3
<i>Required Courses for All Majors</i>			BI 276	Oceanography	3
<i>Required Biology Core Courses</i>			BI 278	Coastal Ecology	3
BI 111	Concepts in Biology I: Molecules to Cells	3	BI 305	Behavioral Neurobiology	3
BI 112	Concepts in Biology II: Cells to Organisms	3	PS 350/BI 205	Essentials of Neuroscience	3
BI 113	Concepts in Biology I Laboratory	1	BI 210/211	Plant Biology (3 cr) with Lab (1 cr)	4
BI 114	Concepts in Biology II Laboratory	1	BI 230	Microbiology	4
BI 201	Genetics & Evolution	3	BI 240/241	Invertebrate Biology (3 cr) with Lab (1 cr)	4
BI 202	Ecology & Evolution	3	BI 245/246	Vertebrate Biology (3 cr) with Lab (1 cr)	4
BI 203	Genetics & Evolution Laboratory	1	BI 255	Animal Behavior	4
BI 204	Ecology & Evolution Laboratory	1	BI 260	Marine Biology	4
BI 399	Senior Seminar	2	BI 305	Behavioral Neurobiology	3
<i>Required Supporting Courses for All Majors</i>			BI 306	Pharmacology	3
CH 151	General Chemistry I	3	BI 312/314	Systems Physiology (3 cr) with Lab (1 cr)	4
CH 152	General Chemistry II	3	BI 325	Immunology	3
CH 153	General Chemistry Laboratory I	1	BI 340	Cancer Biology	3
CH 154	General Chemistry Laboratory II	1	BI 345	Neurobiology	4
CH 221	Organic Chemistry I	3	<i>Molecular Area</i>		
CH 223	Organic Chemistry Laboratory I	1	BI 230	Microbiology	4
MA 131	Elementary Statistics or	3	BI 306	Pharmacology	3
MA 140	Precalculus or above (MA 151 Calculus I is recommended)	4	BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
<i>Additional Required Courses for the Biology Major</i>			BI 320	Applied Molecular Genetics	4
Students must select six additional Biology courses at the 200 level or higher, comprising at least one course from the Environmental, Organismal, and Molecular areas. Two of the six courses must be at the 300 level. Three of the six courses must include labs (one at the 300 level). Three credits of research (BI 390) or internship (BI 360) are encouraged. Human Anatomy & Physiology I (BI 206) does not count toward this requirement, but Human Anatomy & Physiology II (BI 207) can count. For the most up to date listing of courses and special topics, please consult the listing maintained on the Biology Department's website.			BI 325	Immunology	3
			BI 335	Topics in Genetics	3
			BI 340	Cancer Biology	3
			BI 345	Neurobiology	4
			BI 355	Molecular Biology	4
			<i>Additional Required Courses for the Molecular and Cellular Biology Major</i>		
			BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
			BI 320	Applied Molecular Genetics or	4
			BI 355	Molecular Biology	4
			BI 360	Internship or	3-6
			BI 390	Supervised Research	3
			Three additional electives (1 with lab) must be taken, two of which must be chosen from courses classified in the Molecular Area (see above and Biology Department website).		
			<i>Additional Required Supporting Courses for the Molecular and Cellular Biology Major</i>		
<i>Environmental Area</i>			MA 151	Calculus I	4
BI 210/211	Plant Biology (3 cr) with Lab (1 cr)	4	CH 222	Organic Chemistry II	3
			CH 224	Organic Chemistry Laboratory II	1
			CH 341	Biochemistry I	3
			CH 343	Biochemistry Laboratory I	1

MA 151: strongly suggested—fulfills the MA 140 or above requirement

Additional Required Courses for the Coastal and Marine Science Major

BI 274	Coastal Management	3
BI 278	Coastal Ecology	3
BI 360	Internship	3-6
	or	
BI 390	Supervised Research	3

Four additional electives (3 with lab) must be taken, two of which must be chosen from courses classified in the Environmental Area, and one of which must be chosen in the Organismal area. One of the four courses must be at the 300 level. (See above and Biology Department website.)

Additional Required Courses for the Neuroscience Major

Take all of the following

PS 350/BI 205	Essentials of Neuroscience	3
BI 345	Neurobiology	4
BI 360	Internship	3-6
	or	
BI 390	Supervised Research	3
	or	
PS 110	Introduction to Psychology	3
PS 201	Research Design & Analysis I	3
PS 397	Capstone: Psychological Research	3

Five additional courses from the following list (at least two must be in Biology and two must be in Psychology)

BI 255	Animal Behavior	4
	or	
BI 305	Behavioral Neurobiology	3
BI 299	Special Topics in Biology	3-4
BI 306	Pharmacology	3
BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
PS 335	Human & Animal Learning	3
PS 352	Hormones & Behavior	3
PS 353	Psychopharmacology	3
PS 389	Advanced Special Topics	3

STEM

The goal of the STEM major is to prepare future elementary school teachers so that they may use scientific principles from a multitude of scientific fields, mathematics, and computing in real world applications. Through a problem-based learning instructional approach in a collaborative environment, this major will allow students to explore content through real-world interactions and help as they guide K-5 students to develop the knowledge to become civic-minded, responsible and ethical problem solvers in a global society. This cutting-edge STEM major will provide future teachers with an understanding of the process of science and provides the foundation for teaching the “big ideas”, the beauty, and logic of the natural world. The program provides key courses within the College of Arts and Sciences and the School of Computer Science and Engineering as well as thematic courses on the processes of scientific literacy and the teaching of scientific knowledge. This major focuses on the interdisciplinary nature of STEM (Science, Technology, Engineering, and Mathematics) disciplines by exposing students to core, breadth, and focus area courses in STEM while also

providing a strong foundation in the Liberal Arts and Education. The STEM major will provide undergraduates with the necessary content to teach at the K-5 level and provides a seamless path into the 5th year MAT Program in the Isabelle Farrington College of Education (IFCE) where they will receive Elementary Education Certification and a Master’s of Arts in Teaching.

PROGRAM REQUIREMENTS

Required Core Courses

BI 109	Biology for Elementary Teachers with Lab	3
CH 101/102	The Physical World Lecture and Lab	3
PY 101/102	Earth and Space Science Lecture and Lab	3
MA 107	Math for Elementary Teachers	3
MA 131	Elementary Statistics	3
MA 211	Geometry for Educators	3
CS 104	Digital Animation and Gaming for non-majors	3
CS 111	Introduction to Structured Programming	3
CS 125	Computing Explorations	1
CSE 125	Computer Science and Engineering Explorations	1
ENG R125	Engineering Explorations	1
BI391	STEM Capstone	2

Additional Required Courses for the STEM Major

Students must take three additional courses, comprising at least one course from Biology, Chemistry, and Physics.

Additional Required Supporting Courses for the STEM Major (21 Credits):

ENG 244	Studies in World Literature	3
ENG 245	American Literature for Elementary Educators	3
GS 150	World Geography	3
HI 222 or 223	U.S. History to 1865 OR since 1865	3
PO 121	Introduction to American Government	3
PS 110	Intro to Psychology	3

PS273 Adolescent Development 3

Professional Education Sequence for the STEM Major (24 Credits):

ED300 Educational Psychology 3

ED 301 Introduction to Exceptionalities 3

ED 302 Education in the United States 3

ED 304 Multicultural Education 3

ED343 Introduction to Language and Literacy 3

ED401 Educational Technologies 3

ED403 Children's Literature 3

ED404 Classroom Management Strategy 3

Biology Minor

PROGRAM REQUIREMENTS

The minor in Biology requires the completion of the following 23–24 credits:

BI 111 Concepts in Biology I: Molecules to Cells 3

BI 112 Concepts in Biology II: Cells to Organisms 3

BI 113 Concepts in Biology I Laboratory 1

BI 114 Concepts in Biology II Laboratory 1

CH 151 General Chemistry I 3

CH 153 General Chemistry Laboratory I 1

BI Elec.

Three additional biology courses at the 200 level or above (two with labs).

BI 206/208 does not meet this requirement, but BI 207/209 does.

The minor in Biology requires the completion of the following 23–24

credits:

BI 111 Concepts in Biology I: Molecules to Cells 3

BI 112 Concepts in Biology II: Cells to Organisms 3

BI 113 Concepts in Biology I Laboratory 1

BI 114 Concepts in Biology II Laboratory 1

CH 151 General Chemistry I 3

CH 153 General Chemistry Laboratory I 1

BI Elec.

Three additional biology courses at the 200 level or above (two with labs).

BI 206/208 does not meet this requirement, but BI 207/209 does.

Pre-Health Post-Baccalaureate Certificate

Sacred Heart University offers a Pre-Health Post-Baccalaureate Certificate Program for students interested in preparation for medical, dental, pharmacy, optometry, podiatry, or physician assistant schools. The program offers an interdisciplinary curriculum that gives a rigorous grounding in the foundational life sciences, physical sciences and social sciences needed for admission to medical and other health professions schools. Experienced faculty provide small classes, personal attention, and mentoring to benefit the development of the student.

In order to increase student preparedness for admission to and success in medical school, we provide extensive advising in regards to individually-tailored course selection and planning, advice concerning internship opportunities and research experiences, advising on the balance of pre-med coursework and other responsibilities and on exam preparation. Students will also be given the opportunity to join our Pre-medical AMSA club and our chapter of the Alpha Epsilon Delta Pre-Health Professions Honor Society.

We further assist students throughout the medical school application process by providing feedback on drafts of personal statements, assembling application packets, compiling letters of reference, uploading applicant materials, providing reference letters as applicable, and conducting mock medical school interviews.

In addition to providing these services for prospective medical students, the Pre-Health Post-Baccalaureate Program provides similar, custom tailored curricula, services, and advising for students returning to pursue other health professions including dentistry, veterinary medicine, podiatry, pharmacy, optometry and physician assistant. The program has a minimum requirement of 45 credits. Students who have completed some of the pre-requisite courses are eligible to transfer in a maximum of 22 credits towards the certificate. The specific plan of study for each student is unique consisting of science courses tailored to meet the individual students needs for their planned health profession. A typical plan of study for a student interested in medical school and a list of science courses which can be substituted into the plan are listed on the certificate website.

Catholic Studies

The Department of Catholic Studies aims to preserve, transmit, develop, and advance the interdisciplinary study and teaching of the Catholic intellectual tradition. It is the University's only department that intentionally and directly reflects the University's Mission and Catholic identity and provides students with a solid, interdisciplinary foundation in the Catholic intellectual tradition (CIT) through teaching the University's academic signature core seminars: The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition; through the interdisciplinary minor in Catholic Studies, and through the co-curricular programs it offers throughout the University.

Using seminar pedagogy, the two seminars provide students with an interdisciplinary understanding of the roots and development of the Catholic intellectual tradition as an ongoing, 2,000-year-old conversation between the community of Catholic thinkers, writers, and artists and the cultures in which they have lived, discussing fundamental questions about God, humanity, society, and nature. The two seminars introduce students to fundamental claims of the tradition and framed by the following enduring questions of human existence: What does it mean to be human, to live a life of meaning and purpose, to understand and appreciate the natural world, and to form a more just society for the common good? The seminars engage students to reflect on how these questions relate to them and the world in which they live.

Further, the Department of Catholic Studies offers students a 15 credit interdisciplinary minor, which examines the Catholic intellectual tradition in its theological, philosophical, historical, literary, artistic, scientific, and professional expressions and explores the influence that tradition of ideas, beliefs, and values has exerted on Western and global cultures. Students in the minor are encouraged to explore the potential influence the CIT may have on developing constructive and positive solutions to the social, political, economic, ethical, and environmental issues that confront the contemporary world. Students in any major field of study will find a minor in Catholic Studies a distinctive way to broaden and deepen their understanding of their major discipline as well as to provide them with skills and understanding that will support their professional work in the world after graduation.

Completing a minor in Catholic Studies provides students from any discipline or major with a strong background in the knowledge and skills needed in every professional or career sector. Students gain a broad based interdisciplinary knowledge focused by big questions facing the contemporary world. Students also develop the necessary and practical skills, intercultural awareness, and moral and ethical understanding that employers seek in today's college graduates.

In addition, the Department of Catholic Studies promotes faculty research, scholarship, and development. Further, through its signature The Human Journey Colloquia Series, the Department offers the University and local community a wide array of colloquia, lectures, and cultural events. The Department also offers conferences and study abroad opportunities that advance understanding and appreciation of the richness and breadth of Catholic intellectual thought.

Joining with the Office of Mission and Catholic Identity, Campus Ministry, and Student Life, the Department of Catholic Studies provides students with a variety of opportunities to explore Catholic intellectual, spiritual, and social thinking and action.

Faculty

CHARLES GILLESPIE, Ph.D.

Lecturer

CHELSEA KING, Ph.D.

Lecturer

BRENT LITTLE, Ph.D.

Lecturer

MICHELLE LORIS, Ph.D., Psy.D.

Professor, Department Chair

JILLIAN PLUMMER, Ph.D.

Lecturer

DANIEL ROBER, Ph.D.

Associate Lecturer

Catholic Studies Minor

The minor in Catholic Studies is 15 credits – the CIT seminars and three additional electives. Students who take a minor in Catholic Studies will complete the University's core courses: CIT 201/202 The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition (6 credits total). The remaining three elective courses (9 credits) will be normally completed as follows:

6 credits CSP 203 and CSP 204 (another approved course may be substituted for 3 credits by approval of Chair)

3 credits Catholic Studies approved courses

APPROVED COURSES FOR CATHOLIC STUDIES MINOR

Catholic Studies Courses:

CSP 203	Springsteen, Scorsese, and SHU	3
CSP 204	Sinners, Saints, and Sacraments	3
CSP 205	Taking the Journey: The Camino	3

Other Approved Courses

AN 204	Introduction to Irish Archaeology	3
AR 204	Renaissance Art	3
AR 205	European Art: 17th-19th Century	3
ENG 220	Studies in British Literature to 1603	3
ENG 224	Seventeenth-Century British Literature	3
FR 251	Early French Writers	3
FR 252	French & Francophone Writers Then & Now	3
FR 280	French Civilization & Culture	3
FR 281	Francophone Civilization & Culture	3
FR 316	Quebec	3
HI 207	History of Latin America to 1826	3
HI 234	Catholics in American Society	3
HI 242	Ancient Greek History	3

HI 243	Golden Age of Greece	3
HI 246	Roman History: The Republic	3
HI 248	Roman Empire & Christianity	3
HI 252	Medieval Europe	3
HI 254	The Renaissance & Reformation	3
HI 255	Celtic & Irish History	3
HI 257	History & Memory in Modern Ireland	3
IT 251	Early Italian Writers	3
IT 252	Italian Writers Then & Now	3
IT 280	Italian Civilization & Culture	3
IT 380	Dante & the Italian Literary Tradition	3
MU 106	Introduction to Irish Traditional Music	3
MU 125	Music in the Performing Arts	3
PH 321	Philosophy of Aquinas	3
PH 323	Philosophical Theology	3
PH 333	Philosophy of Plato	3
PH 334	Philosophy of Aristotle	3
SO 201	Poverty & Inequality in the United States	3
SO 254	Society & Economic Change	3
SO 258	Society & the Environment	3
SP 251/252	Spanish Literature I and II	3 CR each
SP 280	Hispanic Civilization & Culture: Spain	3
SP 281	Hispanic Civilization & Culture: Latin America	3
SP 382	The Cultures of Medieval Spain	3
SP 385	The Society of Golden Age Spain	3
TRS 201	Introduction to the Hebrew Bible	3
TRS 202	Introduction to the New Testament	3
TRS 203	Introduction to the Gospels	3
TRS 204	The Letters of Paul	3
TRS 222	Faith & Reason	3
TRS 223	Sacraments	3
TRS 230	History of Christianity I	3
TRS 231	History of Christianity II	3
TRS 232	Christian Spirituality	3
TRS 233	Women in Christianity	3
TRS 234	Contemporary Roman Catholic Thought	3
TRS 240	Foundations of Catholic Ethics	3
TRS 242	The Catholic Social Justice Tradition	3
TRS 271	Celtic Religious Traditions	3
TRS 277	Christian-Jewish Relations	3
TRS 320	Jesus the Christ	3
TRS 321	The Church: Catholic Perspectives	3
TRS 322	The Christian Trinity	3
TRS 323	Theology & the Human Person	3
TRS 330	Mysticism	3
TRS 331	Monks, Hermits, & Warriors	3
TRS 332	Medieval Spiritual Traditions	3
TRS 334	Catherine & Teresa	3
TRS 335	Spiritual Teachers & Thinkers	3
TRS 336	Theology & Native Irish Spirituality	3
TRS 363	Pilgrimage & Sacred Journeys	3

Chemistry and Physics

The Chemistry program is committed to academic excellence and seeks to prepare students for industry, graduate school, or professional school.

This is achieved through a broad-based education that includes exposure to the major areas of chemistry (analytical, biochemistry, environmental, inorganic, organic, and physical) in both the classroom setting and in the laboratory. The required undergraduate research component of the degree provides an opportunity for the investigation of an original project.

The strengths of the department include small class sizes; extensive interaction with faculty; an award-winning student affiliate American Chemical Society chapter; instruction that uses the latest innovations in technology, teaching pedagogy, and lab equipment; opportunities for community service; and the possibility for internship and co-op positions. The department also provides strong support for students majoring in other sciences as well as for non-science majors.

The Chemistry program offers a balanced curriculum that prepares students for graduate study in the various areas of chemistry and for employment in the chemical industries. Also, the Chemistry major, coupled with selected supporting courses, provides excellent preparation for the study of medicine, dentistry, and other health-related professions. To accomplish these objectives, the Chemistry program offers two degrees: the Bachelor of Science and the Bachelor of Arts. The student majoring in Chemistry with a BS degree can choose a Traditional or Biochemistry concentration.

The traditional concentration provides a curriculum with strong supportive courses in mathematics and physics. This program is recommended for graduate study in chemistry or as preparation for an industrial position.

Biochemistry majors will emerge well qualified for laboratory research positions in chemical and life science industries, and for continuing training in the health sciences, including medicine, pharmacy, and dentistry.

Students completing their undergraduate degree in chemistry or biochemistry at SHU have the opportunity to obtain a BS/MS combined degree in chemistry. This is a five-year undergraduate/graduate accelerated track. Students who complete this track receive both BS and MS degrees. Students must apply to Graduate School at Sacred Heart University by the end of the first semester of their junior year.

The Department of Chemistry also provides introductory physics courses for students in science majors, Pre-Dental, Pre-Medical, Pre-Physical Therapy, Pre-Veterinary, and other pre-professional programs in health-related careers. Courses of general interest to meet core science requirements for the non-science major are also offered.

Chemistry Faculty

EID A. ALKHATIB, Ph.D.

Professor, Department Chair

BENJAMIN J. ALPER, Ph.D.

Associate Professor

JOSEPH AUDIE, Ph.D.

Professor

LINDA FARBER, Ph.D.

Assistant Professor

DHIA A. HABBOUSH, Ph.D.

Professor

PENNY A. SNETSINGER, Ph.D.
Associate Professor

TODD J. SULLIVAN, Ph.D.
Lecturer

Physics Faculty

FRANK ROBINSON, Ph.D.
Assistant Professor,

MARLINA SLAMET, Ph.D.
Associate Professor

Chemistry Laboratories

There are eight chemistry laboratories and five research laboratories serving the needs of inorganic chemistry, organic chemistry, physical chemistry, analytical chemistry, instrumental analysis, biochemistry, environmental chemistry, and computational chemistry. These laboratories contain the following major equipment:

Spectroscopy

NMR 400 MHz; Flame and Graphite Furnace Atomic Absorption Spectrometer + Autosampler; Raman Spectrometer; four FT-IR Spectrometers including ATR, Ultraviolet/Visible Spectrophotometers; Near Infrared Spectrometers; Spectrofluorometer; Shimadzu RF-5301 Fluorophotometer.

Chromatography

PE HPLC Binary UV/Vis System with Series 200 Autosampler; Gow Mac 550P and two Gow Mac 69-400 TCD-P Gas Chromatographs; Shimadzu GC/MS 2010 Plus with OI Eclipse purge-and-Trap.

Electrochemistry

Pine Dual Potentiostat System; EG&G Parc 264A and EG&G Parc 384 Polarographic Analyzer/- Stripping Voltammeter; EG&G Parc 303A SMDE Electrode; EG&G Parc 616 RDE Electrode.

Computers and Software

Licenses

Hyperchem Molecular Modeling System; ACD proton and carbon-13 NMR software; Wiley 6th edition MS spectral library of 138,000 MS Spectra and NIST Library Chemical Structure Database; Sadtler search software and infrared spectrum library of 3500 organic and inorganic compounds; MATHCAD; ChemDraw; Chem3D; IR Tutor; Introduction to Spectroscopy; Spectra Deck; Turbochrom.

Others

Rudolph Autopol IV Automatic Polarimeter; Johnson Matthey Mark II Magnetic Susceptibility Balance; Jenway PFP7 Flame Photometer; Bio-Rad Experion Automated Electrophoresis System; PE 48-well Thermal Cylinder for DNA analysis; IEC Centra CL2 Benchtop Clinical Centrifuge; Classic Series C-Line Model C24 Benchtop Incubator Shaker; Labconco Tissue Culture Enclosure, Shimadzu HPLC, Shimadzu GCMS, access to Shimadzu ICP; Shimadzu TGA-51.

Computer Facilities

Chemistry server providing licensed software for the use of students.

Biochemistry Major

BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY

The BS degree requires the completion of 58 core and supporting credits, plus 6 or more restrictive elective credits.

Required Core Courses

CH 151	General Chemistry I	3
CH 152	General Chemistry II	3
CH 153	General Chemistry Laboratory I	1
CH 154	General Chemistry Laboratory II	1
CH 221	Organic Chemistry I	3
CH 222	Organic Chemistry II	3
CH 223	Organic Chemistry Laboratory I	1
CH 224	Organic Chemistry Laboratory II	1
CH 252	Analytical Chemistry	3
CH 254	Analytical Chemistry Laboratory	2
CH 331	Physical Chemistry I	3
CH 333	Physical Chemistry Laboratory I	1
CH 341	Biochemistry I	3
CH 342	Biochemistry II	3
CH 343	Biochemistry Laboratory I	1
CH 344	Biochemistry Laboratory II	1
CH 390	Internship	3
	or	
CH 395	Undergraduate Research	3

Required Supporting Courses

BI 111	Concepts in Biology I: Molecules to Cells	3
BI 112	Concepts in Biology II: Cells to Organisms	3
BI 113	Concepts in Biology I Laboratory	1
BI 114	Concepts in Biology II Laboratory	1
BI 201	Genetics & Evolution	3
BI 203	Genetics & Evolution Laboratory	1
MA 140	Precalculus	4
MA 151	Calculus I	4
PY 111	General Physics I	3
	and	
PY 151	Principles of Physics I	3
PY 112	General Physics II	3
	and	
PY 152	Principles of Physics II	3
PY 113	General Physics Laboratory I	1
	and	
PY 153	Principles of Physics Laboratory I	1
PY 114	General Physics Laboratory II	1
	and	
PY 154	Principles of Physics Laboratory II	1

MA 140: waived on examination

Restricted Electives

6 credits required, at least 3 credits in Biology

BI 306	Pharmacology	3
BI 311/313	Cell Biology (3 cr) with Lab (1 cr)	4
BI 320	Applied Molecular Genetics	4
BI 335	Topics in Genetics	3

BI 355	Molecular Biology	4
CH 332	Physical Chemistry II	3
CH 334	Physical Chemistry Laboratory II	1
CH 345	Bioinformatics	3
CH 347	Computational Chemistry & Molecular Modeling	3
CH 351	Instrumental Analysis	3
CH 353	Instrumental Analysis Laboratory	1
CH 533	BIOPHYSICAL CHEMISTRY	3
CH 597	MOLECULAR MODELING AND DRUG DESIGN	3
MA 131	Elementary Statistics	3
	or	
MA 331	Probability	3
MA 152	Calculus II	4

Electives should be selected in consultation with the student's faculty advisor.

Chemistry Major

BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

The BS degree requires the completion of 38 major credits, plus 20 credits in the related fields of mathematics and physics for the Traditional concentration; and 20 credits in the related fields of biology, mathematics, and physics for the Biochemistry concentration.

Required Courses for Chemistry Major

CH 151	General Chemistry I	3
CH 152	General Chemistry II	3
CH 153	General Chemistry Laboratory I	1
CH 154	General Chemistry Laboratory II	1
CH 221	Organic Chemistry I	3
CH 222	Organic Chemistry II	3
CH 223	Organic Chemistry Laboratory I	1
CH 224	Organic Chemistry Laboratory II	1
CH 251	Inorganic Chemistry	3
CH 252	Analytical Chemistry	3
CH 253	Inorganic Chemistry Laboratory	1
CH 254	Analytical Chemistry Laboratory	2
CH 331	Physical Chemistry I	3
CH 333	Physical Chemistry Laboratory I	1
CH 341	Biochemistry I	3
CH 343	Biochemistry Laboratory I	1
CH 351	Instrumental Analysis	3
CH 353	Instrumental Analysis Laboratory	1
CH 390	Internship	3
	or	
CH 395	Undergraduate Research	3

At least 7 credits from the following:

CH 332	Physical Chemistry II	3
CH 334	Physical Chemistry Laboratory II	1
CH 342	Biochemistry II	3
CH 344	Biochemistry Laboratory II	1
CH 355	Advanced Inorganic Chemistry	4
CH 399	Special Topics in Chemistry	3-6

Required Supporting Courses for Chemistry Major

MA 151	Calculus I	4
MA 152	Calculus II	4

PY 111	General Physics I	3
PY 113	General Physics Laboratory I	1
	or	
PY 151	Principles of Physics I	3
PY 153	Principles of Physics Laboratory I	1
PY 112	General Physics II	3
PY 114	General Physics Laboratory II	1
	or	
PY 152	Principles of Physics II	3
PY 154	Principles of Physics Laboratory II	1

Chemistry Minor

PROGRAM REQUIREMENTS

The minor in Chemistry requires the completion of the following 20 credits:

CH 151	General Chemistry I	3
CH 152	General Chemistry II	3
CH 153	General Chemistry Laboratory I	1
CH 154	General Chemistry Laboratory II	1
CH 221	Organic Chemistry I	3
CH 222	Organic Chemistry II	3
CH 223	Organic Chemistry Laboratory I	1
CH 224	Organic Chemistry Laboratory II	1
CH Elective	Chemistry Elective: 4 credits from 200-level or 300-level chemistry courses	4

Criminal Justice

The Criminal Justice program provides students with a comprehensive understanding of the criminal justice system, which consists of public and private police, courts, and corrections.

The course of study enables the graduate to pursue a career in law enforcement, correctional security and counseling, probation, parole, court administration, or personnel management in various criminal justice agencies or private security. The program also prepares students to enter law school or graduate school in the social and behavioral sciences. It provides an excellent opportunity for criminal justice personnel and community and junior college graduates to obtain a bachelor's degree in Criminal Justice. Applicants who have completed the municipal, state, or FBI training may apply for advanced standing.

Faculty

JAMES E. MCCABE, Ph.D.
Associate Professor

PATRICK MORRIS, Ph.D.
Associate Professor

ANTHONY J. PAPA, J.D.
Lecturer

Criminal Justice Major

The major in Criminal Justice requires the completion of 36 credits of Criminal Justice courses and 6 credits of required supporting courses.

PROGRAM REQUIREMENTS

Required Courses

CJ 101	Introduction to Criminal Justice	3
CJ 206	Crime & Criminal Behavior	3
CJ 220	Introduction to Corrections & Correctional Law	3
CJ 230	Introduction to Law Enforcement	3
CJ 381	Research Methods in Criminal Justice	3
CJ 391	Senior Seminar	3

Choose at least 1 course in each of the content areas:

Content Area 1: LAW ENFORCEMENT

CJ 232	Police-Community Relations	3
CJ 240	Introduction to Security	3
CJ 242	White-Collar Crime	3
CJ 246	Organized Crime	3

Content Area 2: COURTS

CJ 205	Criminal Law	3
CJ 209	The American Legal System	3
CJ 235	Law of Evidence	3
CJ 248	Introduction to Fraud Investigation	3
CJ 251	Criminal Courts & Discretion	3

Content Area 3: CORRECTIONS

CJ 213	Probation & Parole	3
CJ 216	Juvenile Justice System	3
CJ 223	Interviewing & Counseling	3
CJ 320	Correctional Administration & Management	3

Elective Course Requirements

Take 3 credits in any Criminal Justice elective.

Corrections Courses

CJ 213	Probation & Parole	3
CJ 216	Juvenile Justice System	3
CJ 220	Introduction to Corrections & Correctional Law	3
CJ 230	Introduction to Law Enforcement	3
CJ 390	Internship	1-6

Law Enforcement Courses

CJ 230	Introduction to Law Enforcement	3
CJ 231	Criminal Investigation	3
CJ 232	Police-Community Relations	3
CJ 235	Law of Evidence	3
CJ 239	Police Administration & Supervision	3
CJ 390	Internship	1-6

Legal Studies Courses

CJ 205	Criminal Law	3
CJ 209	The American Legal System	3
CJ 235	Law of Evidence	3

Security Courses

CJ 240	Introduction to Security	3
CJ 248	Introduction to Fraud Investigation	3
CJ 390	Internship	1-6

Criminal Justice Minor

THE MINOR IN CRIMINAL JUSTICE REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS

Required Courses in the Minor

CJ 101	Introduction to Criminal Justice	3
CJ 206	Crime & Criminal Behavior	3
	Four Criminal Justice electives	12

Dance

James Castonguay, Ph.D.

Program Director

The minor in Dance is designed to offer Sacred Heart University students the opportunity to explore the field of dance in a focused program of study. Students who participate in the minor will develop their interests, talents, and skills through various theoretical and practical course offerings. The minor is further intended to provide a framework and give experiences that will encourage life-long learning and participation in dance. Students are required to take a minimum of 18 credits to complete the minor in Dance.

Dance Minor

REQUIREMENTS

Required Courses

DA 100	Introduction to Dance History	3
DA 310	Social Issues Through Dance	3

12 credits of dance electives

no more than 6 credits of dance production

English

The English major is housed within the Department of Languages and Literatures. The major in English offers students a variety of courses in literature and writing. These courses not only provide students with a broad and rich knowledge of different literatures, but they also develop students' abilities to think and read critically, to write clearly, cogently, and analytically, and to communicate effectively.

The English major is a strong and solid preparation for graduate school, the professions (teaching, law, medicine) as well as business and industry (marketing, advertising, company writing and editing, personal relations, sales, public relations).

Also, the Department offers a minor in English and a minor in Creative Writing.

Students may also pursue a 3+3 Bachelor's & J.D. program.

The English faculty seek to share their love of the written and spoken word with our students while at the same time we aim to provide our students with a solid preparation for their professional lives.

Non-majors are welcome in English classes provided seats are available. If there is any question about permission to enroll in a course, contact the department chair.

Faculty

ABBY BENDER, Ph.D.
Lecturer

EMILY BRYAN, Ph.D.
Assistant Lecturer

PAMELA BUCK, Ph.D.
Associate Professor

JEFFREY P. CAIN, Ph.D.
Associate Professor

CLARE CALLAHAN, Ph.D.
Lecturer

JUNE-ANN GREELEY, Ph.D.
Associate Professor

MARIE A. HULME, MFA, MAT, M.A.
Lecturer

CARA KILGALLEN, Ph.D.
Associate Professor, Department Chair

MICHELLE LORIS, Ph.D., Psy.D.
Professor

RICHARD MAGEE, Ph.D.
Professor

JEFF NAFTZINER, Ph.D.
Assistant Professor

PETER SINCLAIR, Ph.D.
Lecturer

SANDRA YOUNG, Ph.D.
Associate Professor

JONAS ZDANYS, Ph.D.
Professor

English Major

The English major requires the completion of 39 credits which includes a required major core of 21 credits (7 courses) plus 18 credits of English major course electives. 12 credits (4 courses) of these 18 credits must be literature elective courses.

REQUIREMENTS FOR THE ENGLISH MAJOR

Required Courses

ENG 210	Literacy Research and Writing	3
ENG 215	Major British Authors Pre-18th Century	3
ENG 221	The British Tradition I	3
ENG 222	The British Tradition II	3
ENG 238	American Experiences	3
ENG 361	Literary Theory	3
ENG 390	Capstone	3

Elective Courses

Students must take six courses (18 credits) in English major electives. Four courses (12 credits) of these six courses must be literature electives.

Policy Statement Regarding the English Major

Students will take ENG 210, ENG 221, ENG 222, and ENG 238 in their sophomore year.

Students will take ENG 215 and ENG 361 as well as English major electives in their junior year.

Students will take ENG 390 Capstone as well as English major electives in their senior year.

All major courses must be passed with a grade of C or better.

English majors are required to complete six credits in a foreign language.

English Minor

THE MINOR IN ENGLISH REQUIRES THE COMPLETION OF 18 CREDITS.

Required Courses for English Minor

Two courses in British literature (see advisor) and two courses in American literature (see advisor); ENG 257 Critical Writing (3 credits).

Creative Writing Minor

REQUIREMENTS

The minor in Creative Writing requires the completion of 18 credits in creative writing courses offered by the Department of English.

Courses that fulfill that requirement are

ENG 253	Introduction to Creative Writing	3
ENG 270	Short Story Writing	3
ENG 271	Writing Social Fiction	3
ENG 272	Writing Flash Fiction	3

ENG 273	Poetry Writing	3
ENG 274	Creative Writing Pedagogy	3
ENG 371	Advanced Poetry Writing I	3
ENG 372	Advanced Poetry Writing II	3
ENG 373	Independent Study: Poetry	3
ENG 374	Independent Study: Fiction	3
ENG 376	Advanced Short Story Writing	3

The minor offers tracks in writing prose and poetry. Courses in both tracks help students explore what it means to be a practicing poet and fiction writer. Those courses also benefit students in any field—nursing, criminal justice, education, marketing, communication and media studies, and throughout the humanities and the sciences—who have an interest in learning how to write more clearly and persuasively because creative writers learn how writing can be used to express meaning and to convince and engage a reader. These are essential skills for all professions.

Students study with published writers on the faculty who are actively working as poets and fiction writers. Those faculty members provide practical and hands-on learning experiences in seminars and workshops where students learn how aesthetic texts are created in fact and not only in theory. The minor also collaborates with the University's Center for Irish Studies, providing an important study abroad opportunity.

The minor in Creative Writing is a strong addition to the University's traditions in the visual, musical, and performing arts and affirms the University's commitment to making possible a full range of opportunities for undergraduates to engage in all avenues of artistic expression.

European Studies

JOHN RONEY, Ph.D.

Program Director

European Studies Minor

The multidisciplinary European Studies minor allows students to concentrate on a broad study of Europe in all its dimensions: history, politics and government, business, economics, language, and literature. The focus of this minor will be on modern and contemporary Europe.

The minor will require 18 credit hours, with at least 3 credits taken in each of the four areas listed below: Politics and Government, Economics or International Business, History, Language or Literature.

In addition, students who minor in European Studies must demonstrate competency in a European language at the intermediate level.

COURSEWORK

The following courses have been preapproved. New electives must be approved by the director of the European Studies program and the chair of the Department of History. Approval will be based on the centrality of the course topic with respect to the study of Europe.

The courses listed below qualify for the above requirements:

AN 204	Introduction to Irish Archaeology	3
AN 299	Special Topics in Anthropology	3
EC 316	International Economics	3

EC 342	European Economic Development	3
ENG 222	The British Tradition II	3
ENG 226	Romantic Period in British Literature	3
ENG 227	Victorian Period in British Literature	3
ENG 228	Twentieth-Century British Literature	3
FR 280	French Civilization & Culture	3
FR 353-359	Topics in French/Francophone Film	3-4 CR each
FR 363-369	Topics in French/Francophone Culture	3-4 CR each
FR 373-379	Topics in French/Francophone Literature	3-4 CR each
HI 214	French Revolution & Napoleon	3
HI 218	Modern France	3
HI 255	Celtic & Irish History	3
HI 257	History & Memory in Modern Ireland	3
IT 280	Italian Civilization & Culture	3
IT 353-359	Special Topics in Italian Film	3-4 CR each
IT 363-369	Special Topics in Italian Culture	3-4 CR each
IT 373-379	Special Topics in Italian Literature	3-4 CR each
MGT 203	Cross-Cultural Relations	3
MGT 278	Principles of International Business	3
PO 313	Politics of European Integration	3
PO 318	Contemporary European Politics	3
PO 341	International Law	3
SP 280	Hispanic Civilization & Culture: Spain	3
SP 385	The Society of Golden Age Spain	3

AN 299: 3 credits, e.g., The Ethnography of Ireland or Life Histories & Culture Change in Dingle

Foreign Languages

The academic programs in Foreign Languages in the Department of Languages & Literatures focus on developing students' linguistic abilities, cultural understanding, and critical thinking. The programs draw on varied sources such as literary and non-literary texts, film, art and music, and technology in order to engage students in an evolving global community.

Study abroad is encouraged. Sacred Heart University has its own study abroad programs in Spain, Italy, Ireland, France, Luxembourg, and Australia. The University is also affiliated with American institutions that offer study abroad opportunities throughout the world, including locations in Canada and Latin America. For more information, visit the Office of Global Affairs website.

Students can pursue a major in Spanish, minors and certificates in Italian and Spanish, and courses in French. Courses are also offered occasionally in Arabic, Chinese, Gaelic, Japanese, and Latin.

Faculty

CLAIRE MARRONE, Ph.D.

Professor

MARK MASCIA, Ph.D.

Associate Professor

French Study

French courses within the Department of Languages & Literatures focus on developing students' linguistic abilities, cultural understanding, and critical thinking. Courses draw on varied sources such as literary and non-literary texts, film, art and music, and technology in order to engage students in an evolving global community.

Spanish Major

The Spanish Major is designed to foster students' linguistic development and to provide a broad knowledge of Spanish, Latin American, and U.S. Latino cultures. The Spanish major is comprised of three different categories: Literature, Culture and Civilization, and Electives. The Major begins with the 201/202 level (Composition and Grammar I).

PROGRAM REQUIREMENTS (31 CREDITS)

Required Courses for Major

SP 201/202	Advanced Spanish Composition & Grammar I and II	3 CR each
SP 397	Spanish Major Portfolio	1 CR

SP 201/202: For students placed into courses above this level, the required 31 credits will be completed through more advanced coursework.

Electives

At least one course in Spanish literature: either in Peninsular literature or in Latin American literature

At least one course in culture, civilization, and contemporary issues: one dealing with Peninsular or one dealing with Latin America

Six Spanish electives beyond the 200 level: these can include additional classes in literature as well as culture and civilization

Spanish Minor

SPANISH MINOR

The minor in Spanish requires the completion of 18 credits, which may begin at the SP 101/102 level (Beginning Spanish), SP 103/104 (Advanced Beginners), SP 109 (Spanish for the Health Professions), SP 151/152 (Intermediate) or the 201/202 level.

Required Courses for Minor

SP 201/202	Advanced Spanish Composition & Grammar I and II	3 CR each
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The balance of credits may be chosen from classes before the 201 level or from advanced-level courses.

SP 201/202: For students placed into courses above this level, the required 18 credits will be completed through more advanced coursework.

Italian Minor

The Italian Program within the Department of Languages & Literatures focuses on developing students' linguistic abilities, cultural understanding, and critical thinking. Courses draw on varied sources such as literary and non-literary texts, film, art and music, and technology in order to engage students in an evolving global community.

For students who begin college study at the beginning (IT 101/102) or intermediate levels (IT 151/152), the Italian minor requires the completion of 18 credits. For students who begin college study at the advanced level (IT 201 or above), the minor requires the completion of 12 credits.

REQUIREMENTS FOR MINOR

Required Courses for Minor

IT 151/152	Intermediate Italian I and II	3 CR each
IT 201/202	Topics in Italian Language & Culture I and II	3 CR each

IT 151/152, IT 201/202: For students placed into courses above this level, the required credits will be completed through more advanced coursework.

Electives

Six credits of upper-level Italian electives

General Studies

Customize your education with Sacred Heart University's General Studies Major. Our part-time or full-time bachelor's degree program is developed specifically for adult and transfer students who are interested in designing a challenging multidisciplinary bachelor's degree curriculum.

General Studies Major

PROGRAM REQUIREMENTS

Students complete the 45 credit University Core Curriculum and a 36 credit emphasis in one of the following areas:

- **Humanities and Arts:** Graphic Design and Visual Arts; Communications; English; History; Media Arts; Foreign Languages and Cultures; Music; Philosophy; Religious Studies and Theatre Arts.
- **Natural Sciences:** Biology; Chemistry; Computer Science; Exercise Science; Health Science; Mathematics; Nursing and Physics.
- **Social Sciences:** Anthropology; Criminal Justice; Economics; Global Studies; Political Science; Psychology; Social Work and Sociology.

- **Business Studies:** Accounting; Economics; Finance; Marketing; Management and Sport Management.

12 of these credits must be at the 200-level or higher. A Grade of C or better is required for each class in the 36 credit emphasis.

Candidates for the General Studies bachelor's degree must complete at least 120 credits. SHU will accept a maximum of 66 credits from a junior college and a maximum of 90 credits from a four year institution. At least half of the major must be completed at SHU. A minimum cumulative grade point average of 2.0 is required.

Global Studies

ISIL AKBULUT-GOK, Ph.D.
Program Director

Globalization has brought about rapid change as citizens, governments, and markets worldwide have become increasingly interdependent. Today's college graduates will need the knowledge, skills and abilities to thrive in a competitive, globalized economy. The Global Studies major and the 18-credit minor respond to the demands of the 21st century by equipping students with competencies through a broad based and multidisciplinary program designed to prepare them for global engagement. They were designed for students who have strong international interests who wish to pursue those interests in a program of study. The department also offers a 3 + 3 Bachelor's & J.D. Program.

Global Studies Major

The major in Global Studies responds to the demands of the twenty-first century by preparing students for an interdependent world. Globalization has accelerated the forces of economic, social, and political integration presenting both opportunities and challenges. It is designed for students who have strong international interests and wish to pursue those interests in a degree-length program of study that will prepare them for engagement in a globalized world with the requisite knowledge, skills, and abilities to confront the most pressing international issues.

Requirements

At least 39 credits will be required for the major to be distributed in the following way:

Students must complete a common core of seven courses and six elective courses to be chosen from among five areas: Asian Area Studies, European Area Studies, International Systems, Latin American Area Studies, or Middle Eastern Studies and African Studies. Students must equally distribute the six elective courses among two concentrations, half of which must be upper-division courses. Additionally, students are required to complete two semesters of a foreign language and apply and expand their knowledge in a study abroad experience.

Global Studies Minor

MINOR REQUIREMENTS

Students who minor in Global Studies must complete 18 credits including two mandatory 3-credit courses:

GS 101	Introduction to Global Studies	3
GS 150	World Geography	3

The remaining 12 credits must be distributed among two of the area concentrations for a total of 6 credits in each area.

Global Studies Minor with a Concentration in Global Health

In addition to the regular minor, Global Studies offers a Minor with a Concentration in Global Health

REQUIREMENTS FOR MINOR IN GLOBAL STUDIES WITH A CONCENTRATION IN GLOBAL HEALTH

Students who minor Global Studies with a Global Health Concentration must complete 18 credits which includes four mandatory 3-credit courses:

GS 101	Introduction to Global Studies	3
GS 150	World Geography	3
GS 270	Global Health Systems	3
GS 275	Culture & Global Health	3

The remaining six credits must be chosen from one of the following areas of concentration:

African Studies

Asian Studies

European Studies

International Systems

Latin American Studies

Middle Eastern Studies

Coursework and Groups

The following courses have been preapproved. New electives in these fields must be approved by the director of the Global Studies major. Approval will be based on the centrality of the course topic with respect to issues of global relevance.

PROGRAM CORE COURSES

Take the following:

EC 101	Introduction to Economics	3
GS 101	Introduction to Global Studies	3
GS 150	World Geography	3
GS 301	Senior Seminar	3

	or		
GS 302	Senior Thesis	3.00 Credit(s)	
PO 122	Introduction to International Relations	3	
PO 200	Research Methods	3	
PO 332	International Political Economy	3	

ELECTIVE COURSES*Latin American Studies*

ENG 244	Studies in World Literature	3	
HI 207	History of Latin America to 1826	3	
HI 208	History of Latin America Since 1826	3	
HI 212	Contemporary Latin America	3	
PO 315	Latin American Politics	3	

European Studies

AN 204	Introduction to Irish Archaeology	3	
AN 299	Special Topics in Anthropology	3	
EC 342	European Economic Development	3	
ENG 226	Romantic Period in British Literature	3	
ENG 227	Victorian Period in British Literature	3	
ENG 228	Twentieth-Century British Literature	3	
FR 203	Advanced Conversation & Contemporary Issues	3	
FR 251	Early French Writers	3	
FR 252	French & Francophone Writers Then & Now	3	
FR 281	Francophone Civilization & Culture	3	
FR 282	Business French	3	
FR 353-359	Topics in French/Francophone Film	3-4 CR each	
FR 363-369	Topics in French/Francophone Culture	3-4 CR each	
FR 371	Literary Travelers, Exiles, & Expatriates	3	
FR 372	Women Writers	3	
FR 373-379	Topics in French/Francophone Literature	3-4 CR each	
HI 214	French Revolution & Napoleon	3	
HI 218	Modern France	3	
HI 255	Celtic & Irish History	3	
IT 280	Italian Civilization & Culture	3	
IT 283	Franco-Italian Connections	3	
IT 290	The Italian Short Story	3	
IT 353-359	Special Topics in Italian Film	3-4 CR each	
IT 363-369	Special Topics in Italian Culture	3-4 CR each	
IT 371	Literary Travelers, Exiles, & Expatriates	3	
IT 372	Women Writers	3	
IT 373-379	Special Topics in Italian Literature	3-4 CR each	
IT 380	Dante & the Italian Literary Tradition	3	
PH 307	Philosophy of Lived Experience	3	
PH 313	Contemporary Continental Philosophy	3	
PO 313	Politics of European Integration	3	
PO 318	Contemporary European Politics	3	

AN 299: 3 credits, e.g., The Ethnography of Ireland or Life Histories & Culture Change in Dingle

Asian Area Studies

HI 281	Introduction to the Civilization of East Asia	3	
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HI 283	Late Imperial China	3	
PH 229	Eastern Philosophy	3	
PO 316	South Asian Politics	3	
TRS 260	Eastern Religions	3	

Middle Eastern and African Studies

AN 201	World Cultures	3	
HI 236	History of the Arab World I: From Muhammad to the Ottoman Empire	3	
HI 238	The Modern Middle East	3	
HI 299	Special Topics in History	3	
PO 314	Middle East Politics	3	
PO 317	African Politics	3	
PO 324	Islamic Political Movements	3	
TRS 261	Islam	3	
TRS 276	Women in World Religions	3	
TRS 279	Women in Islam	3	

International Systems

EC 302	Global Financial Markets & Institutions	3	
EC 316	International Economics	3	
GS 270	Global Health Systems	3	
GS 275	Culture & Global Health	3	
MGT 203	Cross-Cultural Relations	3	
MGT 278	Principles of International Business	3	
MGT 299	Special Topics in Management	3	
PO 123	Human Rights & Social Justice	3	
or			
SO 123	Human Rights & Social Justice	3	
PO 242	International Organizations	3	
PO 243	Terrorism	3	
PO 244	American Foreign Policy	3	
PO 341	International Law	3	
SO 254	Society & Economic Change	3	
TRS 265	Introduction to World Religions	3	
TRS 341	Religion, War, & Peace	3	
TRS 342	Human Rights	3	
TRS 383	Holocaust: Genocide & Religion	3	

MGT 299: 3 credits, i.e. Social Entrepreneurship: Creating Businesses for Social Change

History

The History degree opens doors to a variety of career possibilities. The History major provides excellent preparation for a career in teaching, law, politics, business, government, journalism, foreign service, curatorship/museum management, and many other fields. The student of history acquires not only knowledge but also skills in research, analysis, judgment of evidence, and the organization and expression of ideas. These skills and the ability to think analytically and solve problems that a major in History imparts are highly valued qualities in today's world.

Faculty**CHARLOTTE M. GRADIE, Ph.D.**

Professor, Department Chair

DAVID LUESINK, Ph.D.

Assistant Professor

KELLY MARINO, Ph.D.
Lecturer

JENNIFER MCLAUGHLIN, M.A.
Instructor

JOHN B. RONEY, Ph.D.
Professor

DAVID THOMSON, Ph.D.
Assistant Professor

GREGORY VIGGIANO, Ph.D.
Associate Professor

History Major

A MAJOR IN HISTORY REQUIRES THE COMPLETION OF 36 CREDITS IN HISTORY.

Required Courses

HI 100	Western Civilization I, Ancient to 1500: Citizenship, Democracy, & Culture	3
HI 102	Western Civilization II, Since 1500: Economies, Sciences, & Politics	3
HI 222	United States History to 1865	3
HI 223	United States History Since 1865	3
HI 301	Historical Method & Criticism	3

Select either of two tracks for the capstone:

Senior Seminar Track

HI 395	Senior Seminar Preparation	3
HI 396	Senior Seminar: Special Topics	3

Seven History electives

(21 credits, including at least one in each of the following areas: The Ancient World, Europe, Latin America, and East Asia)

Senior Thesis Track (3.2+ GPA)

IL 302	Information Literacy for History Majors	1
HI 397	Senior Thesis Preparation	2-3
HI 398	Senior Thesis	3

History Minor

A MINOR IN HISTORY REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS:

Required Courses

HI 222	United States History to 1865	3
HI 223	United States History Since 1865	3

Electives

One elective from each of four areas: The Ancient World, Europe, Latin America, and East Asia. See also Minors in European Studies, Global Studies, and Latin America.

Irish Studies

JOHN RONEY, Ph.D.
Program Director

Irish Studies Minor

The Minor in Irish Studies at Sacred Heart University is unique among American colleges and universities in the scope of its program, designed to offer students an opportunity for an in-depth, multidisciplinary study of Irish and Celtic culture. The subjects include, but are not limited to, history, language, literature, music, politics, and economics, as well as marine biology, which provides a scientific study of the coastal environment. Other disciplines which have a comparative study of North America and Ireland, such as nursing, health sciences, exercise science, social work, and criminal justice, are also included in the program. A distinctive feature of our Irish Studies program is a balance of study and experience. In addition, Irish Studies at SHU promotes special lectures, musical events, and films, as well as encouraging student participation in activities such as The Claddagh Dancers (Irish dance ensemble) and the Celtic Club.

SHU in Dingle campus, County Kerry, Ireland

Sacred Heart University has a campus in Ireland through a partnership with the Díseart Centre of Irish Spirituality and Culture, located in Dingle, in the heart of one of Ireland's officially-designated *Gaeltacht*, or Irish-speaking, regions. Through this partnership, SHU in Dingle offers two-week sessions - one in January and two in May/June - and full semester Fall and Spring programs of study; many of the courses offered contribute to the Irish Studies minor. Students in Dingle are introduced to the Irish language, which is key to the culture and experience of Ireland. SHU has purchased the Christian Brothers school in Dingle, an historic neo-Gothic building constructed in 1846; currently being renovated to create a state-of-the-art facility for classrooms, science and nursing laboratories, computer labs, and offices. SHU in Dingle also has a partnership with the Dingle Oceanworld Aquarium/ Mara Beo that offers students a hands-on experience of marine life and research.

REQUIREMENTS

Students are required to take a minimum of 15 credits (5 courses) to complete the minor in Irish Studies. The 15 credits include two required foundation courses and a minimum of three designated Irish Studies electives. The required and elective course requirements are distributed as following:

The required and elective course requirements are distributed as follows:

HI 255	Celtic & Irish History	3
	An approved elective in Irish literature or religion	3
	Three electives in at least two disciplines	9

A minimum of 3 credits must be taken at the Dingle campus. HI 255 and approved Irish literature (ENG) or religion (TRS) electives are offered on the Fairfield campus on a regular basis.

Approved Courses:

The following 3-credit electives with an IR attachment are only offered in Dingle.

Anthropology

AN 230	Community, Culture & Folklore	3
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Biology and Marine Science

BI 104	Introduction to Coastal Ecology	3
BI 107	Heredity & Society	3
BI 278	Coastal Ecology	3
BI 299	Special Topics in Biology	3-4

BI 299 IR i.e. Feast, Famine, Fever, Fermentation (microbiology)

Communication

CM 135	Irish Cinema	3.00 Credit(s)
CM 299	Special Topics in Communication & Media Studies	3
HI 255	Celtic & Irish History	3

CM 299 IR i.e. Sounds of Ireland: Music, Media, and Culture

Criminal Justice

CJ 252	Comparative Criminal Justice Systems	3
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Economics

EC 211	Economics of Social Issues	3
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Education

ED 341	Irish Education Comparative Perspectives	3.00 Credit(s)
ED 541	Irish Education Comparative Perspectives	3.00 Credit(s)

Exercise Science

EX 299	Special Topics in Exercise Science	1-3
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EX 299 IR i.e. Health & Fitness: an Irish Perspective

Health Science

HS 350	Healthcare Policy, Politics, & Advocacy	3
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History

HI 256	Thousands are Sailing: The Irish at Home & Abroad 1798-1922	3
HI 257	History & Memory in Modern Ireland	3

Literature

ENG 299	Special Topics in Literature	3
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i.e. Writing the Irish Landscape and/or James Joyce

Marketing

MK 299	Special Topics in Marketing	3
SM 265	Sport Marketing	3

MK 299 IR i.e. Tourism and Marketing in Ireland

Music

MU 106	Introduction to Irish Traditional Music	3
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Religious Studies and Folklore

TRS 271	Celtic Religious Traditions	3
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Sociology and Social Work

SO 239	Diversity & Oppression in Contemporary Society	3
SO 299	Special Topics in Sociology	3
SW 224	Human Diversity & Social Justice	3

SO 299 IR i.e. Images of Ireland: a Sociological Perspective

Latin American Studies

CHARLOTTE GRADIE, Ph.D.

Program Director

Latin American Studies Minor

In keeping with students' interest in global and multicultural issues, Sacred Heart University offers an interdisciplinary minor in Latin American Studies. The minor should be particularly attractive to students majoring in Economics, History, Political Science, Business and International Business, and Spanish. This minor is also of benefit to students who wish to apply to a graduate program in Latin American Studies or who wish to enhance their prospects in the job market by linking a disciplinary major with a regional specialization.

REQUIREMENTS

Requirements include six courses, three of which must be from three different disciplines selected from approved courses in History, Music, Political Science, and Spanish. Students who minor in Latin American Studies must demonstrate competency in Spanish or Portuguese at the intermediate level.

COURSEWORK

The following courses have been preapproved. New electives must be approved by the director of the Latin American Studies program and the chair of the Department of History. Approval will be based on the centrality of the course topic with respect to the study Latin America.

Fine Arts

MU 114	Latin American & Caribbean Music	3
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History

HI 207	History of Latin America to 1826	3
HI 208	History of Latin America Since 1826	3
HI 209	The U.S. & Latin America through History	3
HI 212	Contemporary Latin America	3

Political Science

PO 315	Latin American Politics	3
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Spanish

SP 261/262	Masterpieces of Latin-American Literature I and II	3 CR each
SP 281	Hispanic Civilization & Culture: Latin America	3
SP 315-320	Contemporary Issues	3 CR each
SP 363-369	Advanced Topics in Latin-American Literature	3 CR each

Mathematics

The primary objective of the Mathematics program is to provide an appropriate mathematical background to all University students, focusing on the ability to think critically and solve problems through oral and written communication, in order to foster quantitative literacy.

In addition, the Mathematics program is designed to:

- Provide Mathematics majors with the basic undergraduate mathematical knowledge necessary for graduate studies, a teaching career, or a variety of statistical or business careers.
- Provide Science and professional majors with the mathematical and statistical background for their fields and highlight the wide applicability of mathematics.
- Provide Business majors with a foundation in finite mathematics, statistics, and calculus and demonstrate the relevance of mathematics to increasing complexities of the business world.
- Provide Liberal Arts majors with an introduction to mathematical ideas and promote an appreciation and understanding of the important role of mathematics within the broader curriculum.

The strengths of the department include small class sizes in developmental and major courses, emphasis on student/faculty interaction, and classroom and online instruction utilizing relevant software and technology.

The mathematics major offers three tracks for our students: the traditional track, the actuarial science track, and the data science track.

The traditional track includes core courses in calculus, linear algebra, analysis and abstract algebra. This track suits students who want to teach math at the high school level, have prospects for graduate school, and for students who want broad-based mathematical knowledge that can open doors to a variety of careers.

The actuarial science track is for students who want to pursue a career as an actuary (professionals who manage and measure risk and uncertainty). Students will study calculus, linear algebra, theoretical and applied math, probability, statistics, accounting, finance and actuarial mathematics, in preparation for their first three actuarial exams. Coinciding with this new track, the mathematics department and the Jack Welch College of Business & Technology are applying for inclusion on the Society of Actuaries UCAP-IC list.

The data science track readies students for careers in computer science, business, statistics, data mining and big data, all of which are in demand. The curriculum will include calculus, linear algebra, statistics, theoretical and applied math, computer programming, data structures, financial analytics, artificial intelligence and machine learning.

Sacred Heart University is an institutional member of the Mathematical Association of America as well as the American Mathematical Society.

Faculty

ELLIOT BERTRAND, Ph.D.

Assistant Professor

BERNADETTE BOYLE, Ph.D.

Associate Professor

CATHERINE CARRIGAN, M.Ed.

Instructor

ZOE CRAMER, M.S.

Instructor

HEMA GOPALAKRISHNAN, Ph.D.

Associate Professor

JEAN GUILLAUME, Ph.D.

Lecturer

JULIANNE HOWARD, M.S.

Instructor

ANDREW LAZOWSKI, Ph.D.

Associate Professor

PETER LOTH, Ph.D.

Professor

JASON MOLITIERNO, Ph.D.

Professor, Department Chair

PHANI PAPACHRISTOS, M.S.

Instructor

TINA ROMANSKY, M.S.

Instructor

ELIZABETH TRIPP, Ph.D.

Lecturer

MICHAEL WARD, M.A.

Instructor

Mathematics Major

The Mathematics major has three tracks: the traditional track, the actuarial science track, and the data science track. The traditional track requires 40 credits in mathematics and 6 to 8 additional credits in supporting courses. The actuarial and data science tracks each require 34 credits in mathematics with an addition 15 credits in supporting courses.

PROGRAM REQUIREMENTS

Traditional Track

The traditional track requires 40 credits in mathematics and 6 to 8 additional credits in supporting courses.

Required Courses:

MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 261	Linear Algebra	4
MA 301	Mathematical Structures & Proofs	3
MA 362	Abstract Algebra	3
MA 371	Real Analysis	3
MA 398	Senior Seminar in Mathematics	3

Electives

In addition to the required courses, the students majoring in the traditional track must choose one course from the theoretical mathematics electives, one course from the applied mathematics electives, and two additional mathematics courses numbered MA 250 or higher. (Note: Students cannot count both MA 279 and MA 280 towards the major.)

Applied Mathematics Electives

MA 254	Differential Equations	3
MA 331	Probability	3
MA 332	Mathematical Statistics	3
MA 337	Numerical Analysis	3
MA 341	Mathematical Modeling	3
MA 349	Actuarial Mathematics	3

Theoretical Mathematics Electives

MA 314	Geometry	3
MA 318	Topology	3
MA 320	Graph Theory	3
MA 325	Number Theory	3
MA 372	Complex Analysis	3

Required Supporting Courses

Students majoring in the traditional track must choose one of the following two-semester course sequences:

Biology		
BI 111	Concepts in Biology I: Molecules to Cells	3
BI 113	Concepts in Biology I Laboratory	1
BI 112	Concepts in Biology II: Cells to Organisms	3
BI 114	Concepts in Biology II Laboratory	1

Chemistry

CH 151	General Chemistry I	3
CH 153	General Chemistry Laboratory I	1
CH 152	General Chemistry II	3
CH 154	General Chemistry Laboratory II	1

Computer Science

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3

Economics

EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Physics

PY 151	Principles of Physics I	3
PY 153	Principles of Physics Laboratory I	1
PY 152	Principles of Physics II	3
PY 154	Principles of Physics Laboratory II	1

Actuarial Science Track

The actuarial science track requires 34 credits in mathematics with an addition 15 credits in supporting courses.

Required Courses:

MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 261	Linear Algebra	4
MA 301	Mathematical Structures & Proofs	3
MA 331	Probability	3
MA 332	Mathematical Statistics	3
MA 349	Actuarial Mathematics	3
MA 398	Senior Seminar in Mathematics	3

Choose 1 of the following:

MA 362	Abstract Algebra	3
MA 371	Real Analysis	3

Required Supporting Courses:

AC 221	Financial Accounting & Reporting	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3
FN 215	Financial Management	3
FN 442	Derivatives & Risk Management	3

Data Science Track

The data science track requires 34 credits in mathematics with an addition 15 credits in supporting courses.

Required Courses:

MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 261	Linear Algebra	4
MA 301	Mathematical Structures & Proofs	3
MA 331	Probability	3
MA 332	Mathematical Statistics	3
MA 398	Senior Seminar in Mathematics	3

Choose 1 of the following:

MA 362	Abstract Algebra	3
MA 371	Real Analysis	3

Choose one of the following:

MA 254	Differential Equations	3
MA 337	Numerical Analysis	3
MA 341	Mathematical Modeling	3

Required Supporting Courses

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 311	Database Design	3

Choose 2 of the following Supporting Courses:

CS 481	Introduction to Artificial Intelligence	3
CS 482	Applied Machine Learning	3
FN FN 402	Practical Python with Applications in Finance	3

Mathematics Minor**THE MINOR IN MATHEMATICS REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS:***Required Courses*

MA 151	Calculus I	4
MA 152	Calculus II	4

Electives

In addition to the required courses, the Mathematics minor must choose three additional mathematics courses numbered 250 or above, at least one of which must be MA 253 Calculus III (4 credits) or MA 261 Linear Algebra (4 credits).

Actuarial Science Minor

The required courses for the Actuarial Science minor will be the following 27 credits. The minor is intended for students who are already pursuing a BS in Finance or a BS in Mathematics, but students from any major are welcome to pursue the Actuarial Science minor:

MINOR REQUIREMENTS*Required Courses*

AC 221	Financial Accounting & Reporting	3
FN 215	Financial Management	3
FN 442	Derivatives & Risk Management	3
MA 151	Calculus I	4
MA 152	Calculus II	4
MA 261	Linear Algebra	4
MA 331	Probability	3
MA 349	Actuarial Mathematics	3

MA 349/FN499

It should be noted that Finance majors will take AC 221 through FN 442 as part of the finance major and therefore will need to take MA 151 through MA 331 for the minor. Students who are Mathematics majors will take MA 151 through MA 331 as part of the math major and therefore will need to take AC 221 through FN 442 for the minor. Either major may apply FN 499/MA 349 toward the major. The curriculum for the Finance major students will allow them to do two minors in Mathematics and Actuarial Science.

Middle Eastern Studies**JUNE-ANN GREELEY, Ph.D.**

Program Director

Middle Eastern Studies Minor

Islam is the fastest growing religion in the world. By 2025, 20% to 25% of the world's population will be Muslim. The Israeli/Palestinian conflict has affected decades of politics and public policy in both Western nations as well as regions of the Middle East and Southeast Asia. The tragic events associated with September 11, 2001, and the subsequent war on terrorism, which has reached global proportions, are signatures of the dramatic shift in global economy/politics/society that have altered perhaps permanently American perspectives of itself and the world. The deployment of the U.S. military to Afghanistan, the invasion of Iraq, and what now appears to be a prolonged U.S. commitment to establishing a democracy not only in Iraq but in countries throughout the region are all indicators of the complex interlocking of American and Middle Eastern interests for generations to come.

A well-balanced minor in Middle Eastern Studies (MES) will enrich the undergraduate experience for students and should prove beneficial for graduate study and professional careers.

INTERDISCIPLINARY MINOR

The Middle Eastern Studies minor is interdisciplinary and requires a total of 18 credits of coursework in a foreign language, history, political science, and religious studies.

Required Courses*Track I*

There are two possible tracks of study to complete the MES minor. The first track consists of the following required courses:

AB 101/102	Beginning Arabic I and II	3 CR each
HI 236	History of the Arab World I: From Muhammad to the Ottoman Empire	3
HI 238	The Modern Middle East	3
PO 314	Middle East Politics	3
TRS 261	Islam	3

Whichever course is taken last is to be considered the 'capstone' course for the minor. Students electing this track should discuss the final and 'capstone' course requirements with the director of the program at least one semester prior to the actual scheduling of the final course.

Track II

The second track consists of the following required courses:

AB 101/102	Beginning Arabic I and II	3 CR each
HI 236	History of the Arab World I: From Muhammad to the Ottoman Empire	3
HI 238	The Modern Middle East	3
PO 314	Middle East Politics	3
TRS 261	Islam	3

Capstone in MES (usually listed as an Independent Study in the chosen discipline)

The capstone is the culmination of the MES minor and is developed as an independent study upon consultation with the director of the MES program. The student is expected to study a specific interdisciplinary MES topic with an identified mentor in any one of the several disciplines integrated into the MES minor. The completion of the capstone is usually a formal research paper, written under the supervision of the course mentor.

The University normally offers Arabic in alternate years. Students interested in the minor should schedule accordingly. In the event of late declaration of the minors, substitutions may be approved by the minor program director. Special topics involving the Middle East, if and when offered under History, Political Science, or Theology & Religious Studies, can be used as substitutes for a required course only if the required course is not available within the student's four-year course of study. The study of Arabic cannot be substituted by any course other than Middle Eastern language courses. The application of such courses to the Middle Eastern Studies minor requires the approval of the minor program's director.

Suggested Courses Beyond the Minor Requirements

AR 208	Introduction to Eastern Art	3
PH 330	The Challenge of Islamism	3
PO 243	Terrorism	3
PO 316	South Asian Politics	3
PO 317	African Politics	3
SP 382	The Cultures of Medieval Spain	3
TRS 262	Judaism	3
TRS 264	Ancient Religions & Cults	3
TRS 383	Holocaust: Genocide & Religion	3

Music

The Academic Music Program, housed in the College of Arts and Sciences, offers music elective courses, individual private lessons, and performing ensembles. The program provides the environment and opportunity to hear, experience, and participate in the art of music. The study of music both as a knowledgeable listener, creator, and/or performer nurtures an important human aesthetic dimension.

Music, in its many cultural manifestations, touches upon the enduring questions of human meaning and value. It serves as an opportunity to develop imagination, creativity, and understanding and gives students the opportunity to use and further help their own skills and talents. As a non-major program, the program's goal is to encourage students to experience music so that a foundation for continued learning, appreciation, and enrichment is created.

Music Minor

REQUIRED COURSES FOR MUSIC MINOR

Track I: Regular (18 credits)

MU 102	History of Jazz	3
	or	
MU 103	Bach to Beethoven: Their Lives & Music	3
	or	
MU 104	Brahms to Bernstein: Their Lives and Music	3
MU 121	Musicianship I	3
Electives	Three credits in applied music	3
Electives	Nine credits from music history or music literature courses	9

Track II: Performance (17 Credits)

MU 102	History of Jazz	3
	or	
MU 103	Bach to Beethoven: Their Lives & Music	3
	or	
MU 104	Brahms to Bernstein: Their Lives and Music	3
MU 121	Musicianship I	3
Electives	9 credits in applied music (5 in an ensemble and 4 of private lessons)	9
Elective	1 additional music elective course (3 credits) in a music history or music literature course	3

Philosophy

The philosophical experience is considered integral to the intellectual and cultural development of today's student. In our increasingly complex and dynamic culture, the growth of novel and changing ideas unsettles traditional patterns of thought and action. As a result, the role of philosophy becomes more vital, for it addresses the conflict between the enduring insights of the past and the new discoveries and theories of the present in an attempt to attain a coherent philosophy of life.

In whatever way the student comes to Philosophy—whether it be to satisfy a core, major, or elective requirement—the department seeks to enrich the student's life experience by making available the broad and generous ideas that have shaped the contemporary intellectual world. The program provides a broad range of electives dealing with historical movements, great philosophical figures of the past and present, perennial philosophical themes, and contemporary issues.

Faculty

KENNETH KNIES, Ph.D.

Associate Professor

GORDON PURVES, Ph.D.

Associate Professor

CHRISTINE SUSIENKA, Ph.D.

Assistant Professor

ANNA VAUGHN, Ph.D.

Assistant Professor

MICHAEL VENTIMIGLIA, Ph.D.

Associate Professor

Philosophy Major**THE MAJOR IN PHILOSOPHY REQUIRES THE COMPLETION OF 30 CREDITS.***Required Courses*

PH 231	Introduction to the Philosophy of Knowledge	3
	or	
PH 302	Philosophy of Science	3
PH 251	Introduction to Ethics	3
PH 272	Introduction to Metaphysics	3
PH 280	Logic	3
PH 255	Introduction to Social & Political Philosophy	3
	or	
PH 309	Theories of Justice	3
	or	
PH 310	Philosophy of Race	3
	or	
PH 311	Women, Gender, & Philosophy	3
	or	
PH 312	Philosophy of Marx	3
	or	
PH 352	Philosophy of Law	3
PH 399	Major Capstone	

Four Philosophy electives (12 credits)

Take six required PH courses (18 credits) and four required PH electives (12 credits).

Philosophy Minor

The minor in Philosophy requires the completion of the following 18 credits:

REQUIRED COURSES

200-level introductory course in Philosophy (3 credits)

Five Philosophy electives from 200- or 300-level courses (15 credits)

Political Science

The Political Science major seeks to awaken in students an appreciation and an understanding of politics and government in the broadest and deepest sense. It considers democratic governance the key to civilization and ethics as central to democratic life.

Courses are offered in four major areas: American politics, comparative politics, international relations, and political philosophy and theory. Classroom learning is enriched in a number of ways including field trips to the state capitol and Washington, D.C., internships with legislators in the Connecticut General Assembly, Washington and district office internships with national legislators, election campaign and party organization internships, and internships with public administrators.

Students who major or minor in Political Science prepare themselves for careers in law, teaching, elective office, government service, many areas of business and not-for-profit management, international business, journalism, campaign management, and other endeavors.

Faculty**ISIL AKBULUT-GOK, Ph.D.**

Assistant Professor

XIMENG CHEN, M.P.A.

Instructor

LESLEY A. DENARDIS, Ph.D.

Associate Professor

STEVEN J. MICHELS, Ph.D.

Professor

GARY L. ROSE, Ph.D.

Professor, Department Chair

Political Science Major

The major in Political Science requires the completion of 36 credits. A minimum of 27 credits must be earned through formal classroom instruction. The balance of credits can be earned through formal coursework or Political Science internships.

PROGRAM REQUIREMENTS*Required Courses*

PO 121	Introduction to American Government	3
PO 122	Introduction to International Relations	3
PO 200	Research Methods	3
PO 395	Senior Seminar in Political Science	3
	or	
PO 400	Senior Thesis	3

For those students who wish to write a senior thesis, a 3.4 GPA is required.

Students are also required to take at least one course in Comparative Politics and at least one elective in American Politics.

Students should consult with the department chair to determine which electives fulfill the American Politics requirements.

The remaining 15 credits in Political Science can be taken as electives.

Comparative Politics

PO 313	Politics of European Integration	3
PO 314	Middle East Politics	3
PO 315	Latin American Politics	3
PO 316	South Asian Politics	3
PO 317	African Politics	3
PO 318	Contemporary European Politics	3
PO 324	Islamic Political Movements	

Political Philosophy and Theory

PO 298	Democracy	3
PO 304	American Political Thought	3
PO 305	Ethics & Politics	3
PO 308	Theories of Political Economy	3

Required Supporting Course for Major

PH 255	Introduction to Social & Political Philosophy	3
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Political Science Minor

THE MINOR IN POLITICAL SCIENCE REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS:

Required Courses

PO 121	Introduction to American Government	3
PO 122	Introduction to International Relations	3
PH 255	Introduction to Social & Political Philosophy	3
	One Comparative Politics Elective	3
	Two Political Science Electives	6

Psychology

The Psychology program provides its students with a basic foundation in the scientific study of humans and animals, an understanding of the history of Psychology, and broad exposure to many of its subdisciplines. The major provides students with an excellent foundation in scientific inquiry, critical thinking, and ethical decision-making skills through its research methodology course sequence. In addition, the department offers internship opportunities, faculty supervised research experiences, and study abroad courses to encourage student development of personal and professional competencies related to a variety of career paths.

Faculty

RACHEL E. BOWMAN, Ph.D.

Professor

STEPHEN BRINER, Ph.D.

Assistant Professor

ADRIENNE CROWELL, Ph.D.

Assistant Professor

MAUREEN A. CONARD, Ph.D.

Professor, Department Chair

SUSAN GANNON, M.A.

Instructor

RUTH M. GRANT, Ph.D.

Assistant Professor

RONALD HAMEL, M.A.

Instructor

MARY E. IGNAGNI, Ph.D.

Lecturer

WILLIAM MAYER, Psy.D.

Lecturer

DAWN MELZER, Ph.D.

Associate Professor

ANNEMARIE MURPHY, Ph.D.

Lecturer

JESSICA SAMUOLIS, Ph.D.

Assistant Professor

DAVID SHAENFIELD, Ph.D.

Lecturer

LISA SMITH, Psy.D.

Lecturer

CHRISTINA J. TAYLOR, Ph.D.

Professor

DAMON TOMLIN, Ph.D.

Visiting Assistant Professor

ALBERT WAKIN, M.S., CAS

Instructor

DEIRDRE YEATER, Ph.D.

Associate Professor

Psychology Major

The major in Psychology requires the completion of 38 credits. Before enrolling in the first major course (PS 201 Research Design and Analysis I) PS 110 and MA 131 Elementary Statistics, must be complete with a C.

Students must complete the required Psychology Core Courses, 1 course in each of the 5 areas of study and an additional 3 courses of Psychology electives.

Psychology Core Courses

Students must complete all 4 requirements.

PS 110	Introduction to Psychology	3
PS 201	Research Design & Analysis I	3
PS 302	Research Design & Analysis II	4
PS 380	Advanced Psychological Research or	4
PS 396	Capstone: Psychology Internship	3

Behavioral Health

1 course required

PS 212	Abnormal Psychology	3
PS 280	Prevention & Health Promotion	3
PS 287	Introduction to Counseling	
PS 295	Health Psychology	3

Biological Bases

1 course required

PS 351	Brain & Behavior	3
PS 350/BI 205	Essentials of Neuroscience	3
PS 358	Human Neuroscience	

Cognitive Processes

1 course required

PS 305	Cognition in Humans & Animals	3
PS 335	Human & Animal Learning	3
PS 344	Cognitive Psychology	

Human Development

1 course required

PS 252	Child Development Psychology	3
PS 273	Adolescent Development	3
PS 274	Adult Development	3

Individual and Society

1 course required

PS 215	Social Psychology: Interpersonal Factors	3
PS 241	Psychology of Personality	3
PS 355	Industrial and Organizational Psychology	

Required Supporting Courses

MA 131	Elementary Statistics	3
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Psychology Minor

THE MINOR IN PSYCHOLOGY REQUIRES THE COMPLETION OF 18

CREDITS.

\$name

School of Social Work

The Bachelor of Social Work (BSW) Program at Sacred Heart University boasts a rigorous Generalist Practice curriculum grounded in the liberal arts. Founded in the 1980s, the BSW is accredited by the Council on Social Work Education (CSWE). The plan of study immerses students in the theory and practice of social work across the full variety of social work settings, and introduces practice roles from casework to community advocacy and organizing to politics and campaigning. The BSW is an inter-professional, global program, incorporating prerequisites and related studies in psychology, sociology, government, statistics, and criminal justice, and teaching engagement, assessment and intervention skills in campus classrooms and in such far distant places as Costa Rica, India and Ireland. Noted by the CSWE for our vanguard dedication to comprehensive practice integration, the BSW program prepares students to think critically, advance human rights, and defend the dignity and work of every human being.

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Faculty

SASHA H. AARONSON, MSW, MPA

Clinical Assistant Professor

STEFANIA M. AGLIANO, LMSW

Clinical Assistant Professor

JANELLE K. BRYAN, MSW

Clinical Assistant Professor

PATRICIA CARL-STANNARD, MSW, LCSW

Clinical Associate Professor, Director

BRONWYN CROSS-DENNY, Ph.D., LCSW

Associate Professor

BRYAN HALL, LCSW

Clinical Assistant Professor

AMANDA HARMON, MSW, LCSW

Clinical Assistant Professor

CRYSTAL M. HAYES, MSW

Clinical Assistant Professor

ELIZABETH JOHNSON-TYSON, MSW, LMSW

Clinical Assistant Professor

KERRY (KATE) KELLY, MSW

Clinical Assistant Professor, BSW Program Director

SHARLENE KERELEJZA, LMSW

Clinical Assistant Professor

JILL M. MANIT, Ph.D., MSW

Clinical Assistant Professor, Online Education Coordinator

SUZANNE MARMO, Ph.D., LCSW

Assistant Professor

CHANTÉ P. MORENO, MSW

Clinical Assistant Professor

VICTORIA A. OSBORNE-LEUTE, Ph.D., MSW

Assistant Professor

JASON OSTRANDER, Ph.D., MSW

Assistant Professor, MSW Program Director

JANICE I. OWEN, LCSW

Clinical Assistant Professor

MAURA RHODES, LCSW, M.S.

Clinical Assistant Professor, Director of Field Education

KATHERINE A. SALLAKU, MSW, LCSW

Clinical Assistant Professor

DONNA WANG, Ph.D., LMSW

Clinical Assistant Professor

JENNIFER L. WILSON, Ph.D., LCSW

Clinical Assistant Professor

Social Work Major

The major in Social Work requires the completion of 48 major credits plus 18 credits of required supporting courses in psychology, biology, math, political science, and sociology.

The student is required to maintain an overall GPA of 2.6 or higher and a GPA of 2.6 or higher in required major courses and earn a C+ or better in major and supporting courses.

PROGRAM REQUIREMENTS*Required Courses*

SW 101	Introduction to Social Work	3
SW 224	Human Diversity & Social Justice	3
SW 265	Social Welfare Policy I	3
SW 266	Social Welfare Policy II	3
SW 267	Human Behavior & the Social Environment I	3
SW 268	Human Behavior & the Social Environment II	3
SW 275	Social Work Practice I	3
SW 276	Pre-Placement Field Seminar	2
SW 278	Junior Field Practicum	4
SW 279	Junior Field Practicum Seminar	2
SW 375	Social Work Practice II	3
SW 378/SW 380	Senior Field Practicum I and II	4 CR each
SW 379/381	Senior Field Practicum Seminar I and II	2 CR each
SW 390	Research Methods for Social Work	4
SW 391	Research Practicum and Seminar	2

Required Supporting Courses

BI 101	The Nature of Life	3
	or	
BI 103	The Human Body	3

MA 131	Elementary Statistics	3
PO 121	Introduction to American Government	3
PS 110	Introduction to Psychology	3
SO 110	Sociological Imagination	3
SO 254	Society & Economic Change	3

Social Work Minor**THE MINOR IN SOCIAL WORK REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS***Required Courses for Minor*

SW 101	Introduction to Social Work	3
SW 224	Human Diversity & Social Justice	3
SW 265	Social Welfare Policy I	3
SW 267	Human Behavior & the Social Environment I	3

Pre-requisite and Supporting Courses

These courses are also needed for the minor:

BI 101	The Nature of Life	3
	or	
BI 103	The Human Body	3
PO 121	Introduction to American Government	3
PS 110	Introduction to Psychology	3
SO 110	Sociological Imagination	3
SO 254	Society & Economic Change	3

2 Electives from the list

PO 123	Human Rights & Social Justice	3
SO 382	Methods of Social Research	3
SW 140	Perspectives on Family Violence	3
SW 266	Social Welfare Policy II	3
SW 268	Human Behavior & the Social Environment II	3

Sociology

Sociology is the systematic and scientific study of social life, from peer groups to mass media to the global society. The Sociology program at Sacred Heart University is value driven and the faculty provide a course of study that fosters awareness of social conflict and inequality while highlighting practices and structures that promote healthy self-development, cohesive family and community, and a fair and just society. The program provides an excellent foundation for careers in professional sociology and social research, teaching, counseling, community service, human resources, journalism, public relations, government service, law, NGOs, and other non-profit organizations.

Faculty**JULIA BATES, Ph.D.**

Lecturer

COLLEEN BUTLER-SWEET, Ph.D.

Associate Professor

STEPHEN J. LILLEY, Ph.D.
Professor, Department Chair

AMANDA MORAS, Ph.D.
Associate Professor

GERALD F. REID, Ph.D.
Professor

Sociology Major

THE MAJOR IN SOCIOLOGY REQUIRES THE COMPLETION OF 36 CREDITS.

Required Courses

AN 110	Human Cultural Diversity	3
SO 110	Sociological Imagination	3
SO 372	Sociological Theory	3
SO 382	Methods of Social Research	3
SO 384	Applied Social Theory & Methods	3
SO 392	Sociology Internship	3-6
SO 398	Senior Seminar in Sociology	3
	One Anthropology elective or Sociology elective	3
	Four Sociology electives	12

Human Rights and Social Justice Minor

The Human Rights and Social Justice minor provides an exploration of key historical, political, legal, moral, and sociological influences that have created and formed the study of human rights. Students will identify and comprehend major domestic and international declarations, treaties, and covenants governing human rights as well as mechanisms for monitoring and enforcing human rights standards.

In addition, special topic courses across various disciplines, capstone experiences and internships may be approved on an individual basis.

THE MINOR IN HUMAN RIGHTS AND SOCIAL JUSTICE REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS

SO/PO 123 Introduction to Human Rights and Social Justice

PO 123	Human Rights & Social Justice or	3
SO 123	Human Rights & Social Justice	3

At least two of the following each from a different discipline

CJ 101	Introduction to Criminal Justice	3
GS 101	Introduction to Global Studies	3
PO 121	Introduction to American Government	3
PO 122	Introduction to International Relations	3
SO 110	Sociological Imagination	3

Choose three electives of the following in at least two disciplines

AN 110	Human Cultural Diversity	3
AN 210	Culture, Health, and Wellness	3
CJ 101	Introduction to Criminal Justice	3
CJ 222	Race, Ethnicity, & Crime	3
CJ 224	Women & the Criminal Justice System	3
CJ 225	Domestic & Sexual Violence	3
CM 254	Media & Democracy	3
CM 351	Women in Film & Television	3
ENG 241	Black Writers in America	3
ENG 242	American Women of Color	3
GS 101	Introduction to Global Studies	3
HI 207	History of Latin America to 1826	3
HI 208	History of Latin America Since 1826	3
HI 212	Contemporary Latin America	3
HI 214	French Revolution & Napoleon	3
HI 218	Modern France	3
HI 225	African-American History	3
HI 231	The Cold War & American Society	3
HI 235	Women in American Society	3
HI 255	Celtic & Irish History	3
HI 322	U.S. Foreign Policy	3
HI 328	The Immigrant Experience	3
PH 251	Introduction to Ethics	3
PH 255	Introduction to Social & Political Philosophy	3
PH 309	Theories of Justice	3
PH 310	Philosophy of Race	3
PH 315	Philosophy of Gender	3
PO 121	Introduction to American Government	3
PO 122	Introduction to International Relations	3
PO 325	Politics, Law, & Judicial Behavior	3
PO 351	Constitutional Law	3
PO 352	The First Amendment	3
SO 110	Sociological Imagination	3
SO 201	Poverty & Inequality in the United States	3
SO 234	Sociology of Health & Healthcare	3
SO 239	Diversity & Oppression in Contemporary Society	3
SO 244	Racial & Ethnic Relations	3
SO 254	Society & Economic Change	3
SO 258	Society & the Environment	3
SO 259	Social Movements	3
SO 263	Sociology of Gender	3
SW 140	Perspectives on Family Violence	3
SW 224	Human Diversity & Social Justice	3
TRS 242	The Catholic Social Justice Tradition	3
TRS 341	Religion, War, & Peace	3
TRS 342	Human Rights	3
TRS 343	Philanthropy as Moral Action	3
TRS 383	Holocaust: Genocide & Religion	3

Sociology Minor

THE MINOR IN SOCIOLOGY REQUIRES THE COMPLETION OF THE FOLLOWING 18 CREDITS:

Required Courses

AN 110	Human Cultural Diversity	3
SO 110	Sociological Imagination	3

One Anthropology elective	3
Three Sociology electives	9

Theatre Arts

James Castonguay, Ph.D.
Program Director

Theatre Arts Major

The 36-credit Theatre Arts major with concentrations in musical theatre and acting prepares students to enter the theatre industry by gaining the requisite knowledge, skills, and abilities necessary to pursue the most competitive jobs and career paths in theatre-related performing arts. Through a curriculum that combines theory and practice, Theatre Arts majors will acquire leadership skills through collaborative learning that focuses on artistic integrity, intellectual inquiry, and development of the professional values and skills that lend themselves to a successful career after college.

Through the additional opportunity to take interdisciplinary course electives, students are also given the option to acquire additional specializations in the areas such as film, television, new media, or directing and encouraged to participate in a wide variety of workshops and productions that combine theory and practice. Campus theater productions funded by the Division of Student Affairs are integrated into the curriculum and into students' individualized academic advising plans, which gives theatre arts majors the flexibility to double major in the following 36-credit disciplines: Criminal Justice, Digital Communication, English, Global Studies, History, Mathematics, Media Arts, Philosophy, Political Science, Psychology, Sociology, Spanish, or Theology and Religious Studies.

PROGRAM REQUIREMENTS

Required Courses for a Major in Theatre Arts

THR 112	History of Theatre I	3
THR 130	Stagecraft	3
THR 201	Scene Study	3
THR 202	Script Analysis	3
THR 212	History of Theatre II	3
THR 399	Capstone Production Lab	3

Required Courses for a Concentration in Acting

THR 110	Acting I	3
THR 111	Acting II	3
THR 140	Directing I	3
THR 240	Playwriting I	3
THR 280	Acting Styles	3
THR 301	Advanced Scene Study	3

Required Courses for a Concentration in Musical Theatre

DA 106	Dance for Musical Theater I	3
DA 206	Dance for Musical Theater II	3
THR 120	Voice for Musical Theatre I	3
THR 121	Voice for Musical Theatre II	3
THR 210	Acting for Musical Theater I	3
THR 211	Acting for Musical Theater II	3

Theatre Arts Minor

The Minor in Theatre Arts is designed to offer Sacred Heart University students the opportunity to explore the field of theater in a focused program of study. Students who participate in the minor will develop their interests, talents, and skills through various theoretical and practical course offerings. The minor is further intended to provide a framework and give experiences that will encourage life-long learning and participation in theatre arts. Students are required to take a minimum of 18 credits to complete the Minor in Theatre Arts.

MINOR REQUIREMENTS

Required Courses for Minor

THR 110	Acting I	3
	or	
THR 210	Acting for Musical Theater I	3
THR 111	Acting II	3
	or	
THR 211	Acting for Musical Theater II	3
THR 112	History of Theatre I	3
THR 212	History of Theatre II	3
	Two theatre electives	

Theatre Electives: No more than 3 credits of THR 102/THR 103

Theology and Religious Studies

Throughout human history, religion has played an enormous role in shaping human actions and perceptions, as well as social institutions and values. The academic study of religion involves a sympathetic yet critical examination of the human attempt to answer the questions, "Who are we and why are we here?" It also allows us to understand better the complex world in which we live. The study of religion uses the methods of several disciplines, including theology, philosophy, history, psychology, sociology, anthropology, and literary criticism. The goals of the program are that students engage in critical dialogue with their own religious traditions and other traditions; understand these traditions in their complexity; and articulate coherent, religiously informed answers to basic questions of human meaning.

The Theology and Religious Studies major allows the student to explore numerous topics within the broad domain of religion, such as theology, Bible, ethics, world religions, myth, ritual, and issues of sexuality and gender in world religions. This major can easily combine with a second major and with any minor or concentration. A version of the major with a concentration in theology is offered.

Faculty

ANTHONY CIORRA, Ph.D.
Professor

ONORIO EKEH, Ph.D.
Associate Professor

RICHARD M. GRIGG, Ph.D.
Professor

CHRISTOPHER KELLY, Ph.D.

Associate Professor, Department Chair

CHRISTEL J. MANNING, Ph.D.
Professor**BRIAN STILTNER, Ph.D.**
Professor

Theology and Religious Studies Major

The major in Theology and Religious Studies requires the completion of 33 credits, including one each from four major areas as listed below and a major capstone.

PROGRAM REQUIREMENTS

Required Courses for the Major in Theology and Religious Studies

One course in Biblical Studies

TRS 201	Introduction to the Hebrew Bible	3
TRS 202	Introduction to the New Testament	3
TRS 203	Introduction to the Gospels	3
TRS 204	The Letters of Paul	3
TRS 301	Death & Resurrection of Jesus	3
TRS 302	The Historical Jesus	3
TRS 303	The Gospel of John	3
TRS 304	New Testament Ethics	3
TRS 305	Scripture in the Life of the Church	3

One course in Theology and Spirituality

TRS 220	Introduction to Catholic Theology	3
TRS 221	Understanding Theology	3
TRS 222	Faith & Reason	3
TRS 223	Sacraments	3
TRS 230	History of Christianity I	3
TRS 231	History of Christianity II	3
TRS 232	Christian Spirituality	3
TRS 233	Women in Christianity	3
TRS 288	Mortality and Eternity	3
TRS 320	Jesus the Christ	3
TRS 321	The Church: Catholic Perspectives	3
TRS 322	The Christian Trinity	3
TRS 323	Theology & the Human Person	3
TRS 324	Death, the Future, & Eternity	3
TRS 325	Faith & Science	3
TRS 328	Contemporary Protestant Thought	3
TRS 330	Mysticism	3
TRS 331	Monks, Hermits, & Warriors	3
TRS 332	Medieval Spiritual Traditions	3
TRS 334	Catherine & Teresa	3
TRS 335	Spiritual Teachers & Thinkers	3
TRS 336	Theology & Native Irish Spirituality	3

One course in Ethics

TRS 240	Foundations of Catholic Ethics	3
TRS 241	History of Christian Ethics	3
TRS 242	The Catholic Social Justice Tradition	3
TRS 243	Ethics in World Religions	3
TRS 340	Bioethics: Religious Approaches	3
TRS 341	Religion, War, & Peace	3
TRS 342	Human Rights	3
TRS 343	Philanthropy as Moral Action	3

TRS 344	Virtue Ethics	3
TRS 345	Religion & the Environment	3

One course in World Religions and Comparative Studies

TRS 260	Eastern Religions	3
TRS 261	Islam	3
TRS 262	Judaism	3
TRS 263	Symbol, Myth, & Ritual	3
TRS 264	Ancient Religions & Cults	3
TRS 270	Religion in America	3
TRS 271	Celtic Religious Traditions	3
TRS 272	Religion in Contemporary Ireland	3
TRS 273	Religion & Sexuality	3
TRS 276	Women in World Religions	3
TRS 287	Jesus, the Buddha, and Mohammed	3
TRS 362	Women in American Religion	3
TRS 363	Pilgrimage & Sacred Journeys	3
TRS 370	Interreligious Dialogue	3
TRS 372	Contemporary Religious Thinkers	3

Six TRS Electives (18 credits)

*At least three courses must be taken at the 300 level

TRS 399	Major Capstone	3
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Theology and Religious Studies Minor

The minor in Theology and Religious Studies requires the completion of 18 credits.

REQUIRED COURSES FOR THEOLOGY AND RELIGIOUS STUDIES MINOR

A Foundational Core course in Theology and Religious Studies (any 3 credit 200 level TRS course).

Five additional courses in Theology and Religious Studies (15 credits), which may include:

CIT 201/202	The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition	3 CR each
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Certain TRS 290 courses designated by the department may count in one of these areas.

Women's, Gender, & Sexuality Studies

KELLY L. MARINO, Ph.D.
Program Director

Women's, Gender, & Sexuality Studies Minor

Women's, Gender, & Sexuality Studies is an academic, interdisciplinary program. Students select courses cross-listed in Women's, Gender, & Sexuality Studies and other disciplines, including: Communications, English, History, Literature, Media Studies, Modern Foreign Languages, Philosophy, Psychology, Religious Studies, Social Work and Sociology. The minor in Women's, Gender, & Sexuality Studies also provides students with the opportunity to pursue independent study courses, with the approval of the program director, to complete the minor.

The program draws on new scholarship about women from different cultural and socioeconomic backgrounds to examine and analyze traditional models of thinking and to develop creative ways to explore the roles of women and their experiences. Theoretical and critical debates that have influenced modern gender and sexuality studies (including scholarship about queer identities, LGBTQIA+) are also an integral part of the curriculum.

Women's, Gender, & Sexuality Studies provides students with the opportunity to enrich their academic experience by examining the impact of gender and sexuality as organizing forces and cultural constructs in society. Students explore the meaning and application of such understanding to their own lives.

REQUIREMENTS

Students pursuing the minor must enroll in WS 101 Introduction to Women's, Gender, & Sexuality Studies, SO 263 Sociology of Gender, or PS 275 Psychology of Women, preferably at the beginning of their minor course of study. They then should select five courses (15 credits) from at least three disciplines cross-listed as Women's, Gender, and Sexuality Studies courses.

Subtotal: 18

COURSEWORK

The following courses have been preapproved. New electives must be approved by the director of the Women's, Gender, & Sexuality Studies program. Approval will be based on the centrality of the course topic with respect to the study of women, gender, and sexuality.

Communication

CM 256	Magazines & Body Image	3
CM 257	Women & Advertising	3

CM 351	Women in Film & Television	3
<i>English</i>		
ENG 238	American Experiences	3
ENG 242	American Women of Color	3
ENG 279	Trauma in Contemporary Literature	3

Foreign Languages

FR 372	Women Writers	3
IT 372	Women Writers	3

History

HI 235	Women in American Society	3
HI 239	Women in the Middle East	3

Music

MU 110	Women in Music	3
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Psychology

PS 211	Human Sexuality	3
PS 236	Psychology of Diversity	3.00 Credit(s)
PS 275	Psychology of Women	3

Social Work

SW 140	Perspectives on Family Violence	3
SW 224	Human Diversity & Social Justice	3

Sociology

SO 202	Sociology of the Body	3
SO 216	Changing Families	3
SO 239	Diversity & Oppression in Contemporary Society	3
SO 263	Sociology of Gender	3

Theology, Religious Studies & Philosophy

PH 311	Women, Gender, & Philosophy	3
PH 315	Philosophy of Gender	3
TRS 233	Women in Christianity	3
TRS 273	Religion & Sexuality	3
TRS 276	Women in World Religions	3
TRS 334	Catherine & Teresa	3
TRS 342	Human Rights	3
TRS 362	Women in American Religion	3

Women's Studies

WS 101	Introduction to Women's, Gender, & Sexuality Studies	3
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Jack Welch College of Business & Technology

Martha Crawford, PhD
Dean

Mission Statement

The Jack Welch College of Business & Technology mission is to foster a continuous and inquisitive learning community rooted in the Catholic intellectual tradition, to provide students with business knowledge and appropriate skills, and to develop undergraduate and graduate students prepared to achieve their personal and professional goals in the business community and global society.

Who We Are

Our learning community includes faculty members who are teachers, scholars, and experienced professionals supported by administrative staff members, undergraduate and graduate business students, alumni, and members of companies and organizations who provide employment, internships, and advice.

What We Value

Rooted in the Catholic intellectual tradition, we value scholarship as contributing to learning, understanding, and the search for truth. We stress the primacy of teaching as the focus of our work and value active, engaging, and personalized learning experiences inside and outside of the classroom. We believe personal attention fosters the growth and development of our students, and strive to develop individuals who will act ethically and responsibly. We find strength in the rich diversity of the human family and invite participation in our community by persons of varied races, faith traditions, ethnic backgrounds, and diverse opinions and beliefs. We value academic excellence in all of our programs.

What We Do

To fulfill our mission, we teach and advise students. We foster academic rigor. We emphasize ethical dimensions in our curricula, promote active participation by students in the learning process, include experiential learning, and incorporate appropriate technology and teaching techniques in our classes. As faculty, we engage in research to understand and contribute to the development of our discipline, its practice, and ways in which it is taught. We partner with the business community to improve practice and align our curricula to evolving business needs, and also work collaboratively to ensure that students develop an awareness of and appreciation for the resources and expertise available to them from the faculty and Sacred Heart University community. We give service to our college, University, profession, and the wider community, and emphasize to our students the importance and intrinsic rewards of being good citizens and the responsibilities of being educated persons.

The Welch Experience

The Jack Welch College of Business & Technology has created a benchmark program for business students that is designed to accomplish two very important goals: 1.) To provide ongoing exposure to professional resources that will help students explore career options and decide the best way to apply a business degree, and 2.) To engage students in a comprehensive series of programs that will build résumés and develop the skills that employers are looking for.

Highlights of the Welch Experience include:

- Waived tuition for one short-term study abroad course, making valued intercultural experiences more accessible;
- Free golf lessons, focusing on not only the game of golf but on its links to the business world, from networking to marketing and sponsorship;
- Interactive presentations from successful business professionals exposing students to new career opportunities;
- Research, mentoring, and leadership positions;
- Professional Electronic Portfolio;
- Networking and business etiquette receptions and banquets;
- Trips to businesses in the northeast corridor from New York to Boston
- Student-run businesses on campus

DISCIPLINE

BACHELOR'S DEGREE

BS DEGREE

MAJOR

MINOR

Accounting

Yes

Yes

Management	Yes	
Innovation and Entrepreneurship		Yes
Human Resource Management		Yes
Global Business Management		Yes
Sales Management		Yes
Supply Chain Management		Yes
Business		Yes
Business Economics	Yes	Yes
Finance	Yes	
Financial Analytics		Yes
Marketing	Yes	Yes
Digital Marketing		Yes
Fashion Marketing and Merchandising	Yes	Yes
Sports Marketing		Yes
Sport Management	Yes	Yes

College of Business Core Curriculum

CORE CURRICULUM

All candidates for a baccalaureate degree in the Welch College of Business must complete the core curriculum consisting of twenty-four (24) credits.

The business core consists of the following courses:

MGT 101	Organizational Management	3
MK 201	Principles of Marketing	3
AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

In addition, all Welch College of Business majors are required to complete EC 202 Principles of Microeconomics, EC 203 Principles of Macroeconomics, and MA 131 Business Statistics as required supporting courses. A minimum grade of C is required for core curriculum courses and for all courses required for each major within the Welch College of Business. Core courses may also be part of each major's course requirements.

Esports

Esports Minor

THE MINOR IN ESPORTS REQUIRES THE COMPLETION OF 18 CREDITS

Required Courses

ES 201	Introduction to eSports Industry	3
SM 265	Sport Marketing	3
SM 281	Sport Venue & Event Management	3
CM 276	Digital Editing	3
CM 272/372	Sports Broadcasting I and II	3 CR each
ES 401	Capstone in eSports	3

School of Computer Science and Engineering

MARTHA CRAWFORD, PhD

Dean

Phone: 203-396-8084

Fax: 203-365-7694

E-mail: crawfordm4@sacredheart.edu

The School of Computer Science and Engineering offer several undergraduate programs. Our general CS curriculum has three majors: (i) Computer Science, (ii) Information Technology, and (iii) Game Design and Development. The Computer Science major is geared to those students with strong mathematics and the desire to participate in the research and development side of computer science. The Information Technology major is for those students interested in interface, multimedia, and system design for various business applications. The Computer Gaming Design and Development major is for students who wish to design and develop games for entertainment, simulation, and training. Furthermore, we offer a 4-year B.S. degree in Computer Engineering where students incorporate computer hardware and software skills that are built on mathematics, computer science, and embedded systems. A B.S. degree in Electrical Engineering is also available.

Faculty

SANDRA ADAMS, M.S.

Associate Professor

SAJAL BHATIA, Ph.D.

Assistant Professor

KEVIN BOWLYN, Ph.D.

Assistant Professor

MOSHE COHEN, M.S.

Instructor

D. CENK ERDIL, Ph.D.

Assistant Professor

DIALA EZZEDDINE, Ph.D.

Instructor

FRANCES GRODZINSKY, Ph.D.

Professor Emerita Computer Science

TOLGA KAYA, Ph.D.

Associate Professor

GREGORY KYRYTSCHENKO, MBA

Instructor

ROBERT MCCLOUD, Ed.D.

Associate Professor

DOMENICK J. PINTO, M.A., M.A., M.S.

Associate Professor

SAMAH A. SENBEL, Ph.D.

Assistant Professor

JORDAN TEWELL, Ph.D.

Assistant Professor

Electrical Engineering Major

Electrical Engineering graduates design, build, and maintain electrical and electronic systems, ranging from large-scale power systems to smart home devices. Graduates can work as:

- a hardware or electronics engineer in technology firms such as IBM, Intel, Microsoft, Google, or local tech companies,
- a systems engineer to be an integral part of manufacturing firms such as Sikorsky, Stanley Black & Decker, and Electric Boat, or
- a technology consultant at BCG or McKinsey thanks to both hardware and software skills combined with business awareness through collaboration with our business majors.

You might find yourself working on a submarine, an aircraft, a helicopter, new model of a car. You might end up designing systems for Internet of Things or the next generation home automation systems like Nest or Alexa. You might be working at a power plant or next generation alternative energy companies.

Our curriculum was designed and developed with the feedback from industry partners who hire Electrical Engineers. We use state-of-the-art robotics platforms (drones, ground robots) and integrate them into the curriculum to insure that our students are ready for the trends of tomorrow, when they graduate. Thanks to our dedicated faculty, we carefully aligned all the engineering courses to provide a complementary, focused, and fun learning experience. Also, our program is well immersed in our Welch College of Business and Technology, especially the entrepreneurship aspects. Our students collaborate with business majors on developing products/prototypes. Our engineering students have full time access to a 11,000 sqft., state-of-the-art makerspace: the IDEA Lab. There, they will be able to interact with other disciplines to develop transdisciplinary skills.

Highlights of the program:

1. Required internship and optional co-op program.
2. Engagement with industry through our partners via competitions and business-oriented projects.
3. Involvement in the best equipped makerspace in New England area through classes and special projects.
4. Individual tutoring for fundamental math and engineering courses by upper level engineering students.
5. Exposure to drone operations and autonomous system design principles.

Facilities

SHU Engineering is the host of our 11,000 sqft prototyping lab (IDEA Lab: Innovate|Design|Engineer|Apply). The lab facilitates a transdisciplinary, problem-based, community engaged innovation environment through digital fabrication and advanced manufacturing including desktop and commercial 3d printing functionalities, laser cutters, CNC systems along with characterization and assembly studio spaces. A drone research lab within the space allows researchers work on machine learning and autonomous operations through ground robots and quadcopters in a confined space controlled by 8 motion capturing cameras. IDEA Lab is the space that dreams will come true, but you need to make it! The Maker Corporation composed of experienced engineering students can help with prototyping and product development of hardware and software projects. Lab is supported by a full-time lab engineer. School of Computer Science and Engineering has several state-of-the art computer labs that have recently been built at university's West Campus

(previously headquarters of General Electric) with all necessary engineering and programming software such as MATLAB, Xilinx, Orcad, LabView, Adobe Suite, Visual Studio, SAP, and more.

PROGRAM REQUIREMENTS

Electrical Engineering requires 127 total credits to be earned; 60 of them are major credits.

Required Supporting Courses for Electrical Engineering Major

CSE 300	Stat and Prob for CS and ENGR	3
CS 319	Computer Ethics	3
MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 254	Differential Equations	3
MA 261	Linear Algebra	4
PY 151	Principles of Physics I	3
PY 152	Principles of Physics II	3
PY 153	Principles of Physics Laboratory I	1
PY 154	Principles of Physics Laboratory II	1

Required Engineering Courses for Electrical Engineering Major

CSE 125	CSE Explorations	1
ENGR 125	Engineering Explorations	1.00 Credit
ENGR 200	Computational Methods in Engr	3.00 Credits
ENGR 211	Circuits and Systems with Lab	4.00 Credits
ENGR 212	Digital Design with Lab	4.00 Credits
ENGR 313	Signal Processing with Lab	4.00 Credits
ENGR 314	Directed Research in ENGR	3.00 Credits
ENGR 315	Microelectronic Circuits with Lab	4.00 Credits
ENGR 324	Embedded Systems with Lab	4.00 Credits
ENGR 339	Power Systems with Lab	4.00 Credits
ENGR 349	Electromagnet Theory with Lab	4.00 Credits
ENGR 413	Internship in Engineering	3.00 Credits
ENGR 417	Engineering Design Project I	2.00 Credits
ENGR 418	Engineering Design Project II	3.00 Credits

Required Computer Science Courses for Electrical Engineering Major

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3

Computer Engineering Major

Computer Engineering brings best of the hardware and software worlds together. Graduates can work as:

- a programmer or software engineer in technology firms such as IBM, Intel, Microsoft, Google, or local tech companies,
- a systems engineer to be an integral part of manufacturing firms such as Sikorsky, Stanley Black & Decker, and Electric Boat, or
- a technology consultant at BCG or McKinsey thanks to both hardware and software skills combined with business awareness through collaboration with our business majors.

You might find yourself working on a submarine, an aircraft, a helicopter, new model of a car. You might end up developing apps or websites for Internet of Things or the next generation home automation systems like Nest or Alexa.

Our curriculum was designed and developed with the feedback from industry partners who hire Computer Engineers. We use state-of-the-art robotics platforms (drones, ground robots) and integrate them into the curriculum to insure that our students are ready for the trends of tomorrow, when they graduate. Thanks to our dedicated faculty, we carefully aligned all the engineering courses to provide a complementary, focused, and fun learning experience. Also, our program is well immersed in our Welch College of Business and Technology, especially the entrepreneurship aspects. Our students collaborate with business majors on developing products/prototypes. Our engineering students have full time access to a 11,000 sqft., state-of-the-art makerspace: the IDEA Lab. There, they will be able to interact with other disciplines to develop transdisciplinary skills.

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Facilities

SHU Engineering is the host of our 11,000 sqft prototyping lab (IDEA Lab: Innovate|Design|Engineer|Apply). The lab facilitates a transdisciplinary, problem-based, community engaged innovation environment through digital fabrication and advanced manufacturing including desktop and commercial 3d printing functionalities, laser cutters, CNC systems along with characterization and assembly studio spaces. A drone research lab within the space allows researchers work on machine learning and autonomous operations through ground robots and quadcopters in a confined space controlled by 8 motion capturing cameras. IDEA Lab is the space that dreams will come true, but you need to make it! The Maker Corporation composed of experienced engineering students can help with prototyping and product development of hardware and software projects. Lab is supported by a full-time lab engineer. School of Computer Science and Engineering has several state-of-the art computer labs that have recently been built at university's West Campus (previously headquarters of General Electric) with all necessary engineering and programming software such as MATLAB, Xilinx, Orcad, LabView, Adobe Suite, Visual Studio, SAP, and more.

PROGRAM REQUIREMENTS

Computer Engineering requires 126 total credits to be earned; 59 of them are major credits.

Required Engineering Courses for Computer Engineering Major

Must have a grade of "C" or better

CSE 125	CSE Explorations	1
ENGR 125	Engineering Explorations	1.00 Credit
ENGR 200	Computational Methods in Engr	3.00 Credits
ENGR 211	Circuits and Systems with Lab	4.00 Credits
ENGR 212	Digital Design with Lab	4.00 Credits
ENGR 311	Comp Arch and Design with Lab	4.00 Credits
ENGR 313	Signal Processing with Lab	4.00 Credits

ENGR 314	Directed Research in ENGR	3.00 Credits
ENGR 324	Embedded Systems with Lab	4.00 Credits
ENGR 325	FPGA Design with Lab	4.00 Credits
ENGR 413	Internship in Engineering	3.00 Credits
ENGR 417	Engineering Design Project I	2.00 Credits
ENGR 418	Engineering Design Project II	3.00 Credits

Required Computer Science Courses for Computer Engineering Major

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 339	Networking and Data Communication	3

Required Supporting Courses for Computer Engineering Major

CSE 300	Stat and Prob for CS and ENGR	3
CS 319	Computer Ethics	3
MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 254	Differential Equations	3
MA 261	Linear Algebra	4
PY 151	Principles of Physics I	3
PY 153	Principles of Physics Laboratory I	1
PY 152	Principles of Physics II	3
PY 154	Principles of Physics Laboratory II	1

Computer Science Major

Facilities

Computer Science students utilize three brand new state of the art labs for all computer science courses. They are Artificial Intelligence (AI) lab, IDEA Lab, and Cybersecurity lab. These labs are equipped with powerful workstations, as well as unique equipment such as robotic arms, water lab, 3D printers, wood shop and much more. In addition, a brand new Augmented Reality and Virtual Reality lab is now open to all SHU students in the West campus.

A sample of the software available in the labs is as follows: Adobe Creative Cloud, Adobe Director 12, Android Studio, Docker, IBM SPSS 24, Java SE Developmental Kit 8, Maple 2015, Microsoft SQL Server with Data Tools and Analysis Services, Microsoft Visual Studio, NetBeans IDE, Oracle 11g, Oracle VM VirtualBox, Python, SAP, Tableau, Unity, Unreal Engine, Vagrant, VMWare Workstation, Wireshark.

PROGRAM REQUIREMENTS

The Computer Science major requires the completion of 57 credits. CS 110 may be required if a student has no previous programming experience.

All Computer Science student starts their major with an exploration course that covers Computer Science, Information technology, Game

Design and Development, Engineering and Cybersecurity areas. Students then can select their specialized course in one of the majors from the school.

Required Courses for Computer Science Major

CSE 125	CSE Explorations	1
CS 125	Computer Science Exploration	1
CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 215	Computer Systems Organization with Assembler	3
CS 241	Advanced Programming Concepts Using "C"	3
CS 261	Web Design	3
CS 311	Database Design	3
CS 338	Systems Analysis and Design	3
CS 339	Networking and Data Communication	3
CS CS 342	Enterprise System Management	3
CS 349	Operating Systems	3
CS 390	System Administration or Maintenance Internship	3
CS CS 417	Senior Project Design	2
CS 418	Senior Project Implementation	3

Electives for Computer Science Major

Select four of the following:

CS CS 421	Theory of Computation	3
CS CS 422	Compiler Design	3
CS CS 430	Cyber-Physical Systems	3
CS CS 432	Cloud Computing Fundamentals	3
CS CS 461	Software Engineering	3
CS CS 472	Computer Graphics	3
CS 481	Introduction to Artificial Intelligence	3
CS 482	Applied Machine Learning	3

Required Supporting Courses for Computer Science Major

CS 319	Computer Ethics	3
MA 151	Calculus I	4
MA 152	Calculus II	4
MA 253	Calculus III	4
MA 261	Linear Algebra	4
MA 331	Probability	3
PY 151	Principles of Physics I	3
PY 152	Principles of Physics II	3
PY 153	Principles of Physics Laboratory I	1
PY 154	Principles of Physics Laboratory II	1
	PH-221 or PH-231 or PH-251	3

Must have a grade of "C" or better

Cyber Security Major

The Bachelor of Science in Cybersecurity program is designed to provide students the critical knowledge and skills required to keep the information and communication systems and their data safe, secure and resilient against modern-day attacks. Students aspiring to join the cyber workforce to protect our critical information, systems and infrastructure against cyber-attacks will find this cybersecurity program to be a rewarding and challenging experience. The program will focus on hands-on learning supported by traditional lecture-based teaching and, hence, will provide students with ample opportunities to develop proficiency in subfields of cybersecurity, such as cyber defense, operations, and forensics.

The BS Cybersecurity curriculum provides a computing-based foundation and covers a broad spectrum of concepts applicable to a range of cybersecurity specializations. The core courses within the program provide the requisite body of knowledge regarding essential cybersecurity concepts and skills. Students begin with foundational mathematics and computer science programming coursework in their first year along with a special cybersecurity exploration course introducing the principles and concepts of cybersecurity. In the second and third years, students engage in core computer science and cybersecurity courses that emphasize hands-on laboratory experiences (e.g., web development, firewalls, intrusion detection systems, vulnerability assessment). These foundational cybersecurity courses prepare students for a capstone cybersecurity project, and upper-level electives or internships. Besides the technical rigor, the program throughout its curriculum strongly emphasizes the socio-ethical aspects associated with the field.

Faculty

Sajal Bhatia, PhD

Director and Assistant Professor

Facilities

Cybersecurity Lab

SHU's 1300ft² Cybersecurity Lab is located on the West Campus and provides a collaborative and hands-on learning environment to simulate cyber threats, design responses and defense strategies. The newly built lab is used to support education, research, training and community outreach in cybersecurity and privacy. The lab environment is equipped with 40 workstations that leverage state-of-the-art technologies such as Virtualization (VirtualBox, VMware) and security software's such as Forensic Toolkit (FTK), Fortigate-60D UTM and Splunk. The facility comprises of a dedicated server room supporting floor-to-ceiling technology rack including Network attached storage (NAS), Domain Servers, Network Switches, and Firewalls to run and operate the lab environment. The cybersecurity lab has a security operations center (SOC) analyst workspace to monitor for cyber threats, vulnerabilities and other technology risks that exist on the Internet, and possesses capabilities to isolate the entire lab space from the SHU network and the Internet for defensive and offensive exercises such as malware analysis and penetration testing.

Computer Science Labs

There are three state-of-the-art classroom computer labs dedicated to computer science courses and a dedicated computer lab exclusively for CS/IT majors. There is also a Networking/UNIX lab equipped with 13

Linux machines and a variety of Cisco routers. This closed LAN laboratory is used for networking and UNIX shell programming courses. All workstations are equipped with state-of-the-art applications for programming and software development related assignments and projects.

PROGRAM REQUIREMENTS

The Cybersecurity major requires the completion of 80 credits.

Required Cybersecurity Courses

Must have a grade of "C" or better

CSE 125	CSE Explorations	1
CY 125	Cybersecurity Explorations	1
CY 212	Web Development in UNIX	3
CY 221	Foundations of Cybersecurity	3
CY 312	Introduction to Cryptography	3
CS 367	Network Security	3
CY 321	Cybersecurity Standards, Laws, and Policies	3
CY 324	Forensic Computing	3
CY 325	Usable Security and Privacy	3
CY 410	Software and System Security	3
CY 413	Internship in Cybersecurity	3
CY 420	Vulnerability Assessment and Penetration Testing	3
CY 417	Cybersecurity Capstone Project I	2
CY 418	Cybersecurity Capstone Project II	3

Subtotal: 40

Elective Cybersecurity Courses

Must have a grade of "C" or better

Take 9 cr. from the following Cybersecurity courses

CY 414	Directed Research in Cybersecurity	3
CY 419	Cooperative Studies in Cybersecurity	6
CY 421	Cloud Computing: Architecture, Operations and Security	3
CY 422	Web and Application Security	3
CY 423	Wireless Network Security	3
CY 424	Emerging Trends in Cybersecurity	3

Required Computer Science Courses

Must have a grade of "C" or better

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 215	Computer Systems Organization with Assembler	3
CS 241	Advanced Programming Concepts Using "C"	3
CS 311	Database Design	3
CS 349	Operating Systems	3

Required Supporting Courses

Must have a grade of "C" or better

MA 151	Calculus I	4
CS 319	Computer Ethics	3
CSE 300	Stat and Prob for CS and ENGR	3

Game Design and Development Major

DEGREE REQUIREMENTS

The Game Design & Development major requires the completion of 51 credits. CS 110 may be required if a student has no previous programming experience.

Required Courses

CSE 125	CSE Explorations	1
GDD 125	GDD Explorations	1
CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 215	Computer Systems Organization with Assembler	3
GDD 271	Advanced Computer Gaming	3
GDD 272	OOP WITH C# AND GAMES	3
GDD 273	3D DIGITAL OBJECT CREATION	3
CS CS 321	Research Methods Seminar	3
CS 338	Systems Analysis and Design	3
CS 339	Networking and Data Communication	3
GDD 371	ADVANCED GAME PROGRAMMING	3
GDD 372	BUILDING GAMES	3
CS 390	System Administration or Maintenance Internship	3
GDD GDD 417	Senior Project Design	2
GDD 418	SENIOR PROJECT IMPLEMENTATION	3

Take on the Electives

CS 171	Introduction to Computer Gaming	3
CS 271	Game Development	3
CS 272	OOP with C# and Games	3
CS 273	3D Object Creation	3
CS 333	Theory of Computer Gaming	3
CS 371	Advanced Game Programming	3
CS 372	Building Computer Games	3

Required Supporting Courses for Gaming Option

AR 114	Digital Design Basics	3
MA 131	Elementary Statistics	3
MA 151	Calculus I	4
PY 151	Principles of Physics I	3
PY 153	Principles of Physics Laboratory I	1
CS 319	Computer Ethics	3
	PH-221 or PH-231 or PH-251	3

Must have a grade of "C" or better.

Information Technology Major

The Information Technology major requires the completion of 51 credits. CS 110 may be required if a student has no previous programming experience.

DEGREE REQUIREMENTS

Required Courses

CSE 125	CSE Explorations	1
ITI 125	IT Explorations	1

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 215	Computer Systems Organization with Assembler	3
CS 232	Human-Computer Interaction	3
ITI236	ADVANCED SCRIPTING CONCEPTS	3
ITI 261	Professional Web Design	3
CS 311	Database Design	3
CS CS 321	Research Methods Seminar	3
CS 338	Systems Analysis and Design	3
CS 339	Networking and Data Communication	3
CS 390	System Administration or Maintenance Internship	3
ITI 417	Senior Project Design	2
ITI 418	SENIOR PROJECT IMPLEMENTATION	

Required Supporting Courses

CS 319	Computer Ethics	3
MA 109	Algebra for Business and Sciences	3
MA 110	Business Calculus	3
MA 131	Elementary Statistics	3
MGT 101	Organizational Management	3
	PH-221 or PH-231 or PH-251	3

Must have a grade of "C" or better.

Electrical Engineering Minor

The Electrical Engineering Minor consists 24 credits.

COURSES REQUIRED

Take all of the following

CS 111	Introduction to Structured Programming	3
ENGR 125	Engineering Explorations	1.00 Credit
ENGR 200	Computational Methods in Engr	3.00 Credits
ENGR 211	Circuits and Systems with Lab	4.00 Credits
ENGR 212	Digital Design with Lab	4.00 Credits
ENGR 315	Microelectronic Circuits with Lab	4.00 Credits
ENGR 339	Power Systems with Lab	4.00 Credits

Computer Engineering Minor

The Computer Engineering Minor consists of 24 credits.

COURSES REQUIRED

Take all of the following

Must have a grade of "C" or better in all courses.

ENGR 125	Engineering Explorations	1.00 Credit
CS 111	Introduction to Structured Programming	3
ENGR 200	Computational Methods in Engr	3.00 Credits
ENGR 211	Circuits and Systems with Lab	4.00 Credits
ENGR 212	Digital Design with Lab	4.00 Credits
ENGR 311	Comp Arch and Design with Lab	4.00 Credits

ENGR 325	FPGA Design with Lab	4.00 Credits
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Computer Science Minor**COURSES REQUIRED**

Take all of the following:

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 113	Discrete Structures	3
CS 215	Computer Systems Organization with Assembler	3
CS 272	OOP with C# and Games	3
CS 311	Database Design	3
CS 312	Software Engineering	3
	One Computer Science elective	3

Cybersecurity Minor**COURSES REQUIRED**

Take all of the following:

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CSE 125	CSE Explorations	1
CY 125	Cybersecurity Explorations	1
CY 211	Computer Networks	3
CY 221	Foundations of Cybersecurity	3
CY 321	Cybersecurity Standards, Laws, and Policies	3

Game Design & Development Minor**COURSES REQUIRED**

Take all of the following:

CS 110	Introduction to Computer Science	3
CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 171	Introduction to Computer Gaming	3
CS 271	Game Development	3
CS 272	OOP with C# and Games	3
CS 371	Advanced Game Programming	3

Information Technology Minor**COURSES REQUIRED**

Take all of the following:

CS 110	Introduction to Computer Science	3
CS 111	Introduction to Structured Programming	3

CS 112	Data Structures	3
CS 233	Visual Basic	3
CS 261	Web Design	3
CS 311	Database Design	3
CS 312	Software Engineering	3

Computer Science and Information Technology

Certificate Program

The Computer Science Certificate program provides a foundation for scientific use of computers and information technology applications. The student can earn a certificate by completing six courses from either the Computer Science or Information Technology options, provided that the prerequisites are met.

PROGRAM REQUIREMENTS

Required Courses for Both Certificates

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3

Courses for Computer Science Certificate

CS 241	Advanced Programming Concepts Using "C"	3
CS 272	OOP with C# and Games	3
CS 312	Software Engineering	3
CS 341	Analysis of Algorithms	3

Required Courses for Information Technology Certificate

CS 101	Web Design and Visual Tools for non-majors	3
CS 232	Human-Computer Interaction	3
CS 233	Visual Basic	3

Computer Gaming Design and Development Certificate Program

The undergraduate certificate in Computer Gaming Design and Development utilizes all existing courses to package a certificate program particularly geared toward the part-time evening student. The certificate also feeds into a possible BS or AS degree in the Computer Science or Computer Gaming track.

PROGRAM REQUIREMENTS

Required Courses

CS 111	Introduction to Structured Programming	3
CS 112	Data Structures	3
CS 171	Introduction to Computer Gaming	3
CS 271	Game Development	3
CS 272	OOP with C# and Games	3

Suggested Supporting Courses (Not Required)

MA 140	Precalculus	4
MA 151	Calculus I	4

Accounting

The effective use of financial information is vital for decision makers in business, industry, banking, government, education, law, and many related fields. Individuals with a strong background in accounting and finance are in great demand for positions such as financial analysts, estate planners, investment counselors, market researchers, auditors, comptrollers, and accounting managers.

The Accounting program is designed to meet both the short- and long-term needs of students who enter the accounting profession. The program meets the needs of students who plan to start a career after graduation or who plan to continue their education at the graduate level.

Faculty

BENOÎT N. BOYER, PhD
Professor

LINDA HUGHEN, PhD, CPA
Assistant Professor

KITTIPONG LAOETHAKUL, PhD
Associate Professor

MAHFUJA MALIK, PhD
Assistant Professor

DANNY A. PANNESSE, MST, CPA, ABV, CFF, CVA
Associate Professor

SARAH PARSONS, PhD
Assistant Professor

STEPHEN SCARPATI, MBA, CPA

Clinical Associate Professor

E. DANIEL SHIM, PhD
Professor

JAMES STAVRIS, CPA, MBA
Clinical Assistant Professor

BARBARA TARASOVICH, DPS, CPA, CGMA
Associate Professor and Chair

Accounting Major

All Accounting students must complete the following courses to earn their degree.

PROGRAM REQUIREMENTS

Sacred Heart University Core Curriculum (30–32 Credits)

College of Business Core Curriculum (24 Credits)

MGT 101 Organizational Management

3

MK 201	Principles of Marketing	3
AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
AC 490	Accounting Internship	3-9

Required Courses in Major (24 Credits)

The following nine courses are required:

MGT 232	Advanced Business Law	3
IS 272	Dynamics of Information Technology	3
AC 313	Cost Management	3
AC 331	Intermediate Accounting I	3
AC 332	Intermediate Accounting II	3
AC 401	Advanced Accounting I	3
AC 421	Auditing I	3
AC 431	Federal Taxes I	3

Required Supporting Courses (taken as part of University core)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Electives necessary to complete degree requirements.

Accounting Minor**THE MINOR IN ACCOUNTING REQUIRES THE COMPLETION OF 18 CREDITS PLUS TWO SUPPORTING COURSES.***Required Courses*

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
AC 331	Intermediate Accounting I	3
AC 332	Intermediate Accounting II	3

Two of the following courses

AC 313	Cost Management	3
AC 401	Advanced Accounting I	3
AC 421	Auditing I	3
AC 431	Federal Taxes I	3
FN 314		

Required Supporting Courses

EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Academic requirements for AICPA examination

Baccalaureate degree required. Forty-six (46) semester hours from an accredited college in the study of accounting and related subjects—including but not limited to business law, economics, and finance—of which at least 24 semester hours shall be in the study of accounting. In

order to satisfy the CPA requirements for the state of CT, CPA candidates should hold a bachelor's degree, comprising one hundred fifty (150) credit hours* for certification.

*Including 36 hours of accounting and 60 hours of general education.

Business Economics

The Business Economics major gives students a solid understanding of today's global business environment and market structure. It combines in-depth study of economic theory with business applications within an ethical framework. The program enables students to understand market forces and their interplay with government policies and business decisions. It emphasizes the application of economic concepts and the use of critical thinking to resolve economic and managerial problems. Students acquire the analytical and problem-solving skills needed to investigate and critically evaluate economic trends and business conditions. They learn to interpret current issues confronting society (e.g., deficits, inflation, unemployment, poverty) as well as individuals (e.g., wages, cost of living, taxes). The curriculum is designed to enable students to succeed in business and government careers, graduate schools, and law schools as well as to become better-informed and productive citizens.

Faculty

RALPH LIM, MBA, CFA
Associate Professor

KHAWAJA A. MAMUN, PhD
Associate Professor

Gerald McCloghry, MA
Associate Professor

LUCIAN T. ORLOWSKI, PhD
Professor

WEIJIA PENG PhD
Assistant Professor

STEPHEN RUBB, PhD
Professor

JENNIFER TRUDEAU, PhD
Chair and Associate Professor

Business Economics Major

All Business Economics students must complete the following courses to earn their degree.

PROGRAM REQUIREMENTS*Sacred Heart University Core Curriculum (30–32 Credits)**College of Business Core Curriculum (24 Credits)*

MGT 101	Organizational Management	3
MK 201	Principles of Marketing	3

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

Subtotal: 24*Internship Requirements (3 - 6 Credits)*

BU 296	Career Development & Readiness	0
FN/EC 390	Internship	3-9

Other Courses in Major (18 Credits)

EC 313	Managerial Economics	3
EC 302	Global Financial Markets & Institutions	3
	or	
EC 301	Intermediate Macroeconomic Analysis	3
EC 481	Econometrics for Business	3
	Take One Track Below - 9 credits	
	Global Economy	
EC 316	International Economics	3
FN 416	International Financial Management	3
	or	
MGT 333	International Business Law	3
	or	
MK 425	International Marketing	3
	Economics Elective (EC 290 and up)	
	Strategic Decision Making	
EC 315	Game Theory	3
MGT 364	Negotiations	3.00 Credit(s)
	Economics Elective (EC 290 and up)	
	Analytical Economics	
BUAN 302	Introduction to Database Management	3
EC 492	Economic & Financial Forecasting	3
EC 404	Machine Learning in Economics	3
	No Track - Take Three Economics Electives	

Required Supporting Courses (12 Credits)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Business Economics Minor**MINOR REQUIREMENTS**

The minor in Business Economics requires the completion of 18 credits.

Required Courses

EC 202	Principles of Microeconomics	3
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EC 203	Principles of Macroeconomics	3
EC 302	Global Financial Markets & Institutions	3
EC 313	Managerial Economics	3
	Economics Elective (EC 200 and up)	
	Economics Elective (EC 200 and up)	

A&S majors may take EC 101 in lieu of either EC 202 or EC 203. A&S majors may take either MA 151, PO 320, or SO 254 in lieu of one economics elective.

Fashion Marketing and Merchandising**DAVID BLOOM, MBA**

Program Director and Instructor

The BS in Fashion Marketing & Merchandising prepares students for the exciting world of fashion, including marketing, retailing, merchandising and related industries.

Fashion Marketing and Merchandising Major**ALL FASHION MARKETING AND MERCHANDISING STUDENTS MUST COMPLETE THE FOLLOWING COURSES TO EARN THEIR DEGREE***Sacred Heart University Core Curriculum (30–32 credits)**College of Business Core Curriculum (24 credits)*

MGT 101	Organizational Management	3
MK 201	Principles of Marketing	3
AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
FN/EC 390	Internship	3-9

Other Courses in Major (21 Credits)

FMM 211	Material Culture in History	3
FMM 240	Fashion Marketing	3
FMM 345	Fashion Buying	3
FMM 350	Fashion Brand Marketing	3
FMM 360	Marketing Integration: Textile/Fashion	3
MK 310	Retailing & Merchandising	3
	or	
MK 335	Digital Advertising	3
	Fashion Marketing and Merchandising Elective	
	Fashion Marketing and Merchandising	

Elective

Required Supporting Courses (12 credits)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Fashion Marketing and Merchandising Minor

The BS in Fashion Marketing & Merchandising prepares students for the exciting world of fashion, including marketing, retailing, merchandising and related industries. Our students have completed internships and secured positions in over 100 companies in the fashion industry.

Faculty**DAVID BLOOM, MBA**

Program Director and Instructor

DAVID LORANGER, PhD

Assistant Professor

DAVID G. TAYLOR, PhD

Associate Professor and Chair

THE MINOR IN FASHION MARKETING AND MERCHANDISING REQUIRES THE COMPLETION OF 15 CREDITS.*Required Courses*

FMM 211	Material Culture in History	3
FMM 240	Fashion Marketing	3
FMM 350	Fashion Brand Marketing	3
FMM 360	Marketing Integration: Textile/Fashion	3
MK 310	Retailing & Merchandising	3

Finance

The Finance major provides students with the knowledge and skills required to apply the tools and techniques of financial management in all types of organizations. The discipline focuses on financial management as it relates to the raising and investing of capital consistent with the stated goals of an organization. The Finance major also covers topics related to personal investing from the perspectives of both the individual investor and the people entrusted to manage investment funds. Internships are widely available and required of all majors. Additional opportunities are available through the Problem-Based Learning Lab.

Faculty**ISMAIL ABDULRASHID, PhD**

Assistant Professor

JIN CAI, PhD, CFA

Assistant Professor

LORÁN CHOLLETE, PhD

Associate Professor

XIN (SHANE) GAO, PhD

Assistant Professor

MICHAEL GORMAN, PhD

Assistant Professor

W. KEENER HUGHEN, PhD

Associate Professor

JING JIANG, PhD

Assistant Professor

RALPH LIM, MBA, CFA

Associate Professor

BRIDGET LYONS, DPS

Professor

KHAWAJA A. MAMUN, PhD

Associate Professor

LUCIAN T. ORLOWSKI, PhD

Professor

JENNIFER TRYDEAU, PhD

Chair and Associate Professor

Finance Major**ALL FINANCE STUDENTS MUST COMPLETE THE FOLLOWING COURSES TO EARN THEIR DEGREE.***Sacred Heart University Core Curriculum (30–32 credits)**College of Business Core Curriculum (24 credits)*

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 101	Organizational Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3
MK 201	Principles of Marketing	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
FN/EC 390	Internship	3-9

Other Courses in Major (22 Credits)

EC 302	Global Financial Markets & Institutions	3
FN 315	Investments	3
FN 351	Corporate Finance	4

Take one Track below - 12 credits

FN 416 FN FN 441	Corporate Finance Track	
	International Financial Management	3
	Alternative Investments	3
	Corporate Finance Elective	
	Corporate Finance Elective	
FN FN 395 FN 442	Investment Management Track	
	Fixed Income Securities	3
	Derivatives & Risk Management	3
	Investment Management elective	
	Investment Management elective	
FN FN 281 FN 415	Private Wealth Management Track	
	Private Wealth Management	3
	Portfolio Management	3
	Private Wealth Management Elective	
	Private Wealth Management Elective	
FN FN 360 FN 304	Banking and Capital Markets Track	
	Compliance & Risk Management	3
	Money & Financial Institutions	3
	Banking elective	
	Banking elective	

Required Supporting Courses (12 credits)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Electives necessary to complete degree requirements.

Financial Analytics

MINOR REQUIREMENTS

The minor in Financial Analytics requires the completion of 15 credits.

Required Courses

FN 215	Financial Management	3
BUAN 201	Introduction to Business Analytics	3
BUAN 301	Introduction to Python for Data Analytics	3
BUAN 302	Introduction to Database Management	3
	FN 402 or BUAN 402	

AC221 can be waived as pre-req for FN215 for qualified non-business majors. BUAN302 and BUAN301 can be replaced by CS311 and CS111 respectively.

Hospitality Resort and Tourism Management

With a BS in Hospitality, Resort and Tourism Management, you'll be prepared for management positions worldwide. At SHU, you can choose from a concentration in hotel, resort, and club management; tourism management; or revenue, pricing, and data analytics management.

Hospitality, Resort and Tourism Management will prepare you for a career in a dynamic industry which demands critical thinkers, problem solvers and service focus. You will be prepared to be successful with incredible opportunities to put theory into practice as well as professional level certifications built into the curriculum.

Faculty

KIRSTEN TRIPODI, PhD

Clinical Associate Professor

MERIDITH PICARELLI-KHATTAR, MS, CCM

Adjunct Instructor

XAVIER LEROUX

Chef Instructor

The Hospitality, Resort & Tourism Management curriculum is focused on professionalism and service set in the context of the Welch College of Business & Technology's AACSB accredited business curriculum.

Hospitality Resort and Tourism Management Major

The Hospitality, Resort & Tourism Management major requires completion of 30 major credits plus 12 credits in related supporting courses- specialization track.

ALL HRTM STUDENTS MUST COMPLETE THE FOLLOWING COURSES TO EARN THEIR DEGREE.

*Sacred Heart University Core Curriculum (30–32 credits)**College of Business Core Curriculum (24 credits)*

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 101	Organizational Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3
MK 201	Principles of Marketing	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
FN/EC 390	Internship	3-9

Required Courses in Major (27 Credits)

IS 272	Dynamics of Information Technology	3
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HRTM 201	Introduction to the Hospitality and Tourism Industry	3
HRTM 202	Intro to Culinary Hospitality and Sanitation	3
HRTM 207	Management of Human Resources	3
HRTM 301	Lodging Operations Management	3
HRTM 302	Private Club Management	3
HRTM 401	Strategic Management in the Hospitality Industry	3
HRTM 402	Revenue Management & Pricing	3
Take one Specialization below - 12 credits		
Specialization - Hotel Resort and Club Management		
SM 281	Sport Venue & Event Management	3
HRTM 410	Bar and Beverage Management	
HRTM 411	Resort Operations and Service Excellence	
HRTM 391	Internship - Hospitality & Tourism Specialization Area	
Specialization - Tourism Management in Dingle		
HRTM 304	Global Tourism	
HRTM 305	Tourism Marketing	
HRTM 306	Sport & Recreation Tourism	
HRTM 391	Internship - Hospitality & Tourism Specialization Area	
Specialization - Data Analytics Management		
HRTM 303	Business Analytics I	3
HRTM 412	Social Marketing Analytics	
HRTM 413	Analysis of Consumer Decisions	
HRTM 391	Internship - Hospitality & Tourism Specialization Area	
No Specialization - 12 credits of HRTM electives		
<i>Required Supporting Courses (12 credits)</i>		
MA106 or MA109 or MA110		
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Management

The Management major is a broad-based degree program enabling students to understand how organizations operate in the contemporary global environment. Management majors acquire an understanding of the external environment of business and how it affects the internal activities of an enterprise.

Drawing on management theory as well as current business practices, students develop knowledge, skills, and competencies that will enable them to assume positions in a wide variety of industries and organizations. The Management curriculum places special emphasis on personal ethical accountability and corporate social responsibility. In addition to coursework in business disciplines such as accounting,

economics, finance, law, marketing, management information systems, and operations management, students complete management courses that explore how resources—whether human, information, technology, knowledge, or materials—all strategically combine to achieve the goals of an organization. The communication, teamwork, and leadership skills needed in managerial roles are emphasized across the curriculum. Students also choose a four-course concentration in one of four areas. An internship from any Welch Business College major is required.

Faculty

JEANINE ANDREASSI, PhD
Chair and Professor

STEPHEN M. BROWN, EdD
Professor Emeritus

VALERIE CHRISTIAN, MBA
Clinical Assistant Professor

K. KATHY DHANDA, PhD
Professor, Management

ANDRA GUMBUS, EdD
Professor Emerita

GRACE CHUN GUO, PhD
Associate Professor

BORA KWON, PhD
Assistant Professor

ROBERT MARSH, PhD
Associate Professor

MARCUS MUELLER, PhD
Associate Professor

RICHARD L. PATE, JD
Associate Professor

JAMES SANTOMIER, PhD
Professor

JOSHUA SHUART, PhD
Professor

JING'AN TANG, PhD
Associate Professor

MARY G. TREFRY, PhD
Professor Emerita

MICHAEL ZHANG, DBA
Professor

Management Major

ALL MANAGEMENT STUDENTS MUST COMPLETE THE FOLLOWING COURSES TO EARN THEIR DEGREE.

Sacred Heart University Core Curriculum (30–32 Credits)

College of Business Core Curriculum (24 credits)

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 101	Organizational Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3
MK 201	Principles of Marketing	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
MGT 390	Internship	3-9

Other Courses in Major (12 credits plus 9 management electives or a minor)

IS 272	Dynamics of Information Technology	3
MGT 202	Organizational Behavior	3
MGT 278	Principles of International Business	3
MGT 403	Management & Business Communication Skills	3
	Management Elective	
	Management Elective	
	Management Elective	

Required Supporting Courses (Taken As Part of University Core)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

MINORS FOR MANAGEMENT MAJORS (12 CREDITS)

Choose from:

Human Resources Management

MGT 207	Management of Human Resources	3
MGT 334	Human Resources Law	3
MGT 360	Survey Design & Data Analysis	3
MGT 370	Global Leadership	3

Sales Management

	MGT 350 Sales Force Leadership and Management	
MGT 364	Negotiations	3.00 Credit(s)
MK 364	Professional Selling Skills	3
MK 310	Retailing & Merchandising	3
	SM 299 Special Topics - Sports Sales and Promotions	
BUAN 201	Introduction to Business Analytics	3

Supply Chain Management

MGT 245	Procurement and Purchasing Management	3
MGT 364	Negotiations	3.00 Credit(s)
	MGT 299 Special Topics - Global Supply Chain	
	BU 299 Special Topics - Logistics Transportation and Distribution	

Global Business Management

MGT 203	Cross-Cultural Relations	3
MGT 333	International Business Law	3
MGT 364	Negotiations	3.00 Credit(s)
MGT 370	Global Leadership	3

Innovation and Entrepreneurship

MGT 270	Social Entrepreneurship	3
MGT 364	Negotiations	3.00 Credit(s)
MGT 373	Launching a New Business	3
	or	
MGT 374	Small & Family Business Management	3
	MGT 299 Special Topics - Innovation Management	

MINORS FOR NON-BUSINESS MAJORS**Business Administration Minor for Non-Business Majors****(15 CREDITS)***Required Courses*

AC 221	Financial Accounting & Reporting	3
EC 202	Principles of Microeconomics	3
FN 215	Financial Management	3
MGT 101	Organizational Management	3
MK 201	Principles of Marketing	3

Global Business Management Minor for Non-Business Majors**(15 CREDITS)***Required Courses*

MGT 101	Organizational Management	3
MGT 203	Cross-Cultural Relations	3
MGT 278	Principles of International Business	3
MGT 370	Global Leadership	3

Choose one of the following:

MGT 299	Special Topics in Management	3
MGT 364	Negotiations	3.00 Credit(s)
MGT 390	Internship	3-9
	or	
	1 Foreign Language Course	
	or	
	1 Study Abroad Course	

Human Resource Management Minor for Non-Business Majors**(18 CREDITS)***Required Courses*

MGT 101	Organizational Management	3
MGT 202	Organizational Behavior	3
MGT 207	Management of Human Resources	3
MGT 299	Special Topics in Management	3
MGT 334	Human Resources Law	3
MGT 370	Global Leadership	3

Innovation and Entrepreneurship Minor for Non-Business Majors

(15 CREDITS)

Required Courses

MGT 101	Organizational Management	3
MGT 270	Social Entrepreneurship	3
	MGT 299 Special Topics - Innovation Management	
MGT 364	Negotiations	3.00 Credit(s)
MGT 373	Launching a New Business or	3
MGT 374	Small & Family Business Management	3

Marketing

The Marketing major provides an opportunity for students to not only develop the knowledge and skills required of today's marketing professionals but also the business acumen to negotiate the global business environment. The curriculum of the Marketing major is a well-balanced course of study with a common business knowledge core and specialized courses that provide an understanding of a multitude of topics within the marketing discipline. Within the curriculum students learn to develop new and unique marketing opportunities, think independently, communicate effectively, and appreciate the impact of marketing on their own and other cultures. Graduates in the Marketing major should be well prepared and positioned to achieve increasingly higher levels of marketing management positions in corporations, marketing agencies, or entrepreneurial enterprises.

Faculty

MICHAEL FRECHETTE, PhD

Assistant Professor

GERARDO MOREIRA, PhD

Assistant Professor

ENDA F. MCGOVERN, PhD

Associate Professor

JOSE MENDOZA, DBA

Assistant Professor

TIMOTHY REILLY, PhD

Assistant Professor

DAVID G. TAYLOR, PhD

Associate Professor and Chair

Marketing Major

ALL MARKETING STUDENTS MUST COMPLETE THE FOLLOWING COURSES TO EARN THEIR DEGREE.

Sacred Heart University Core Curriculum (30-32 credits)

College of Business Core Curriculum (24 credits)

MGT 101	Organizational Management	3
MK 201	Principles of Marketing	3
AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
FN 215	Financial Management	3
MGT 231	Legal & Ethical Responsibilities in Business	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
MK 390	Marketing Internship	3-9

Other Courses in Major (21 credits)

MK 270	Customer Insights Using Technology or	3
IS 272	Dynamics of Information Technology	3
MK 320	Consumer Behavior	3
MK 362	Marketing Research	3
MK 425	International Marketing	3
MK 430	Marketing Management	3

Required Supporting Courses (Taken as Part of University Core)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

An additional 6 credits of marketing electives are required. Three credits from marketing electives may be applied toward a minor in digital advertising, fashion marketing and merchandising, or sport marketing if the student chooses to pursue a minor. Minors are encouraged, but not required, for students majoring in Marketing.

Additional electives necessary to complete degree requirements.

Marketing Minor

THE MINOR IN MARKETING REQUIRES THE COMPLETION OF 18 CREDITS.

Required Courses

MK 201	Principles of Marketing	3
MK 232	Introduction to Digital Marketing	3
MK 320	Consumer Behavior	3
MK 362	Marketing Research	3
MK 425	International Marketing	3
MK	Elective	

Digital Marketing Minor

THE MINOR IN DIGITAL MARKETING REQUIRES THE COMPLETION OF 15 CREDITS.

Required Courses

MK 201	Principles of Marketing	3
MK 232	Introduction to Digital Marketing	3
MK 237	Social Media Marketing	3
MK 335	Digital Advertising	3
MK 399 Digital Marketing Analytics		

Sport Management

The increasing complexity, globalization, and influence of media and technology on sport business underscore the importance of specific and dynamic preparation for sport management professionals. The Sport Management curriculum emphasizes the unique management, business, and legal principles and practices necessary to succeed in a dynamic global industry. The Sport Management major prepares professionals who are self-directed in their learning, critical thinkers, and problem-solvers, interdisciplinary in their approach, and capable of effectively managing complex sport enterprises and marketing sport-related services and products to diverse markets.

Faculty

JAMES P. SANTOMIER, JR, PhD
Professor

JOSHUA A. SHUART, PhD
Professor

Sport Management Major

The Sport Management curriculum provides a theoretical and skill-based framework in core business disciplines, functional business skills, and in specific sport-business areas. Focus is on the financial, marketing, media, legal, and ethical dimensions of sport business. The program provides students with opportunities to pursue U.S.-based and international internships.

THE SPORT MANAGEMENT MAJOR REQUIRES COMPLETION OF 30 MAJOR CREDITS PLUS 12 CREDITS IN RELATED SUPPORTING COURSES.

Sacred Heart University Core Curriculum (30-32 credits)

College of Business Core Curriculum (24 credits)

AC 221	Financial Accounting & Reporting	3
AC 222	Managerial Accounting & Control	3
BU 231		
FN 215	Financial Management	3
MGT 101	Organizational Management	3
MGT 375	Operations & Sustainable Supply Chain Management	3
MGT 401	Strategic Management	3

MK 201	Principles of Marketing	3
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Internship Requirements (3 - 6 Credits)

BU 296	Career Development & Readiness	0
SM 390	Sport Management Internship	3-9

Other Courses in Major (24 credits)

IS 272	Dynamics of Information Technology	3
SM 206	Sport Enterprise Management	3
SM 235	Sport Law	3
FN/SM 243	Sport Finance	3
SM 245	Sport Media	3
SM 265	Sport Marketing	3
SM 305	Sport Sponsorship	3
SM 390	Sport Management Internship	3-9

Required Supporting Courses (9 credits taken as part of University Core)

EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Sport Management Electives (6 credits)

Choose from:

SM 281	Sport Venue & Event Management	3
SM 283	Sporting Goods Industry	3
SM 299	Special Topics in Sport Management	3
SM 382	Sport New Media	3

Required Supporting Courses (Taken as Part of University Core)

	MA106 or MA109 or MA110	
MA 131	Elementary Statistics	3
EC 202	Principles of Microeconomics	3
EC 203	Principles of Macroeconomics	3

Sport Management Minor

THE MINOR IN SPORT MANAGEMENT REQUIRES THE COMPLETION OF 15 CREDITS.

Required Courses

MK 201	Principles of Marketing	3
SM 206	Sport Enterprise Management	3
SM 265	Sport Marketing	3
SM 305	Sport Sponsorship	3
SM	Elective	

Isabelle Farrington College of Education

Michael P. Alfano, PhD

Dean

Phone: 203-365-7621

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alfanom3@sacredheart.edu

Mel L. Horton, EdD

Associate Dean

Phone: 203-365-4876

Fax: 203-365-7513

hortonm3@sacredheart.edu

Mission

The Isabelle Farrington College of Education prepares and promotes a diverse community of educators, whose work is grounded in professional knowledge, skills, and dispositions in service to their students. Guided by fundamental principles of social justice, human dignity and equity, we prepare our candidates to help their students navigate a global community that is undergoing profound cultural and technological change. We use evidence of candidate performance to continuously improve practice and policy.

To accomplish this mission, the Isabelle Farrington College of Education assures that upon completion of the program of study, its graduates and program completers are highly qualified professionals in their respective areas of expertise, are deeply committed to all youngsters' growth and development, and have a sensitivity to the importance of social and emotional growth as an aspect of students' education. The Isabelle Farrington College of Education adheres to and assures that candidates address the national and state standards of professional preparation of each of its programs.

A key partner in the mission is Horizons at SHU. Located within the Isabelle Farrington College of Education, this summer and weekend program provides academic enrichment and social support to children in the Bridgeport schools.

Teacher Preparation and Initial Certification

The Isabelle Farrington College of Education offers a professional curriculum approved by the state of Connecticut for certification as elementary and secondary school teachers. Prospective teachers must major in an academic discipline in addition to completing the teacher certification sequence. Thus, the teacher-graduate not only enters the job market with more than one skill, but also possesses an excellent academic background and a high level of professional competence.

Teacher Education programs focus on the personal growth of the teacher, as well as the social and emotional qualities conducive to teaching effectiveness. The components of the program—coursework, fieldwork, and student teaching—assist candidates in broadening their knowledge of the academic content areas along with the pedagogical and developmental practices that support learning and active inquiry. Fieldwork and student teaching are specially designed to help candidates experience the interrelationship between educational theory and practice.

The Isabelle Farrington College of Education offers several teacher certification choices: Elementary Education Grades 1–6, Secondary

Biology 7–12, Secondary Chemistry 7–12, Secondary English 7–12, Secondary General Science 7–12, Secondary History and Social Studies 7–12, Secondary Mathematics 7–12, and Spanish 7–12. Additional University-approved credits are also required in each of the programs. For example, 3 credits in U.S. History is required.

There are two routes by which a candidate can achieve recommendation for initial teacher certification: the Five Year Program and the Post-Baccalaureate Program.

Five Year Program

Sacred Heart undergraduates apply for admission to the Isabelle Farrington College of Education in fall of their sophomore year, complete seven certification courses while also satisfying BA/BS requirements, and complete the initial certification requirements in approximately five years. In addition, candidates complete the requirements for the Master of Arts in Teaching degree. During the fifth year, candidates also may serve as interns in the public schools. This internship includes a benefit equal to the tuition cost of 30 graduate credits. See the Isabelle Farrington College of Education for details of the graduate internship. Including the seven undergraduate education courses, candidates in the program complete a total of 60 credits of professional education.

Students seeking certification as elementary school teachers major in Interdisciplinary Studies. Students seeking certification as secondary school teachers major in the corresponding academic discipline. To be considered for the Five Year Program, candidates must achieve and maintain a cumulative 2.67 GPA. Refer to the Graduate Catalog for additional requirements.

Post-Baccalaureate Program

Sacred Heart University candidates seeking teacher certification may elect to postpone the planned program leading to initial certification until they have completed the bachelor's degree. Sacred Heart undergraduates choosing this route apply for admission to the Isabelle Farrington College of Education during fall of their senior year and begin education coursework as early as the summer semester following undergraduate commencement.

Candidates also complete requirements for the Master of Arts in Teaching degree. Internship opportunities are available for two to three semesters of the full program (certification plus MAT). Teacher certification requires 36 credits; the MAT degree requires an additional 12 credits of graduate work that can be typically completed within two years. Specific details of the Post-Baccalaureate Program are provided in the Graduate Catalog.

International Opportunity

The Farrington College of Education offers an international experience in Dingle, Ireland. The program is open to all teacher preparation candidates as well as others considering careers in education.

The Irish experience takes place during the winter intensive session. Candidates experience the Irish educational system in an up close and personal way, observing classrooms in action, learning from Irish teachers and administrators, and meeting Irish teacher candidates. The course ED 341 Irish & American Education in Comparative Perspective counts in lieu of ED 302 Education in the United States or ED 304 Multicultural Education. For candidates who have already taken these courses, the Irish course also may serve as a MAT elective.

Horizons at SHU

Horizons at Sacred Heart University is an affiliate of Horizons National, an organization that aims to close the opportunity gap by providing consistent and long term academic and social support to low-income children across the country. Horizons at SHU serves students from the City of Bridgeport from kindergarten through high school. The program's mission is to create a dynamic learning environment during the summer and on Saturdays during the school year. The children spend their time engaged in experiential literacy and math lessons as well as enjoying many different enrichment activities such as swimming, sports, art, music, gardening, STEM, wellness and more.

Application Process

Undergraduate candidates apply for admission to the Five Year Program in the fall of their sophomore year and begin professional education coursework in their junior year. Applicants who are entering the post-baccalaureate program may apply during fall semester of their senior year. All applications are managed through the Graduate Admissions Office.

Sacred Heart University adheres to all state regulations regarding teacher preparation.

Candidates must meet the following entrance requirements:

- Complete the Online Graduate Education Form.
- Take the Praxis Core Academic Skills for Educators exam or qualify for Connecticut Department of Education waiver.
- Provide evidence of state and national criminal history background check.
- Present an essay (1–2 pages) discussing a recent experience interacting with children and/or youth and how this experience relates to expectations for a teaching career.
- Meet with a faculty advisor in the Teacher Education program to review transcripts and develop a preliminary plan of study.
- Maintain a cumulative undergraduate GPA of at least 2.67 to be considered for provisional admittance to the Five Year Program.

Interdisciplinary Studies Major for Elementary Teacher Certification

Rene Roselle, PhD

Director of Teacher Preparation

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Fax: 203-365-7513

E-mail: roseller@sacredheart.edu

The Interdisciplinary Studies (IS) major is for students who wish to teach elementary school. It provides students with a balanced set of courses in the arts and sciences - English, history, political science, geography, mathematics, biology, chemistry, and physics - as well as the opportunity to explore one of the aforementioned areas in depth. The IS major consists of 42-43 credits; the variation in the number of credits required for the major is dependent on the area of concentration that students select (those concentrating in math or science take more credits).

The IS major is a Bachelor of Arts/Bachelor of Science degree, with a minimum of 120 credits required for graduation. Students with a concentration in English or social studies earn a Bachelor of Arts degree. Students with a concentration in mathematics or science earn a Bachelor of Science degree. The Isabelle Farrington College of Education collaborates closely with the academic departments in the College of Arts and Sciences which provides most of the courses within this major.

The IS major consists of foundational core courses of 30-32 credits, as well as a concentration of 6–8 credits. Coursework in one of the following areas of concentration is required: English, social studies, mathematics, or science. Coursework for concentrations in English and social studies must be at the 300 level or higher.

- For English, students choose one course in the Department of English and one course in the Department of Art and Design or in the Minor in Performing Arts (6 credits).
- For social studies, the two courses must be in the same department—students choose courses in foreign languages and culture, history, political science, psychology, or sociology. For history, one of the two courses must be HI 301 Historical Method & Criticism (6 credits).
- For math, two semesters of calculus are required: MA 151 and MA 152 - Calculus I and II—4 credits each (8 credits).
- For science, students choose all courses in the Department of Biology or the Department of Chemistry and Physics. For those seeking a concentration in science/biology, take BI 111 and BI 114 instead of BI 109. For those seeking a concentration in chemistry or physics, the concentration must include the 3-credit CH 117 General Organic & Biochemistry: An Overview or the 4-credit PY 100 Elements of Physics (6–7 credits).

Scholarships

The Farrington College of Education awards three endowed and one termed scholarships to undergraduates. For further information, contact the Dean's Office at 203-365-4791.

Endowed Scholarships

Isabelle T. Farrington Award - Available to students in the junior or senior class who demonstrate superior academic performance and potential and have a sincere interest in and practice of the principles of citizenship and religion for which Sacred Heart University has been established.

Sandra Lynn Nobili Award - Given to a Catholic student entering the senior year and planning a career in elementary education. The recipient must have a cumulative average of 3.0 or better.

Robert M. Paul Award - Available to full-time undergraduate students. Preference is given to a Bridgeport Catholic high school graduate who has demonstrated financial need.

Termed Scholarship

Noyce Scholarship Award - Available to students in the junior or senior class who seek certification in elementary, secondary biology or secondary mathematics, and agree to teach in a high-needs school upon completion of the five-year program. Scholarship extends to the graduate year (3 years).

PROGRAM REQUIREMENTS

Reading and Language Arts

Complete 9 credits:

ED 343	Introduction to Language & Literacy	3.00 Credit(s)
ENG 244	Studies in World Literature	3
ENG 245	American Literature for Elementary Educators	3

Mathematics

Complete 10 credits

MA 107	Numbers & Operations for Elementary Teachers	4
MA 108	Geometry for Elementary Teachers	3
MA 131	Elementary Statistics	3

Science

Complete 9-10 credits in the following:

- (For those seeking a concentration in Biology, take BI 111 and BI 114 instead of BI 109).
- (For those seeking a concentration in Chemistry or Physics, must include CH 117 or PY 100).

BI 109	Biology for Elementary Teachers with Lab	3
BI 111	Concepts in Biology I: Molecules to Cells	3
BI 114	Concepts in Biology II Laboratory	1
CH 101	Physical Science	2
CH 102	Physical Science Lab	1
CH 117	General Organic & Biochemistry: An Overview	3
PY 101	Earth & Space Science	2
PY 102	Earth & Space Science Lab	1

Social Studies

Complete 9 credits in the following:

(GS 150 and PO 121 are required; Choose either HI 222 OR HI 223).

GS 150	World Geography	3
HI 222	United States History to 1865	3
HI 223	United States History Since 1865	3
PO 121	Introduction to American Government	3

Areas of Concentration

Coursework in one of the following areas of concentration is required: English, social studies, mathematics, or science. Coursework for

concentrations in English and social studies must be at the 300 level or higher.

- For English, students choose one course in the Department of English and one course in the Department of Art and Design or in the Minor in Performing Arts, (6 credits).
- For social studies, the two courses must be in the same department—students choose courses in the departments of Foreign Languages and Culture, History, Political Science, Psychology, or Sociology. For history, one of the two courses must be HI-301 Historical Method and Criticism, (6 credits).
- For math, two semesters of calculus are required: MA-151 and MA-152 - Calculus I and II—4 credits each, (8 credits).
- For science, students choose all courses in the Department of Biology or the Department of Chemistry and Physics. For those seeking a concentration in Science/Biology, students will take BI-111 and BI-114 instead of BI-109. For those seeking a concentration in chemistry or physics, the concentration must include the three credit CH-117 General Organic and Biochemistry or the four credit PY-100 Elements of Physics, (6-7 credits).

CERTIFICATION REQUIREMENTS

Students admitted to the elementary teacher certification program must complete the courses listed below for Connecticut state certification. For students following the Five Year+ MAT/Certification program, an additional 24 credits of graduate study in education are required to complete the MAT degree. The terms of study of the certification courses are indicated here. The additional course schedule is provided on the plan of study developed with a Teacher Education faculty advisor upon admission to the Isabelle Farrington College of Education and Teacher Education program. Candidates must complete all 10 prerequisite certification courses with an average grade of B or better before entering student teaching. For students accepted into the elementary teacher certification program, the sequence of those courses required for certification is as follows:

Fall Junior Year

ED 300	Educational Psychology	3.00 Credit(s)
ED 302	Education in the U.S.	3.00 Credit(s)

Spring Junior Year

ED 301	Introduction to Exceptionalities	3.00 Credit(s)
ED 304	Multicultural Education	3.00 Credit(s)

Fall Senior Year

ED 403	Children's Literature	3.00 Credit(s)
ED 404	Classroom Management: Elementary	3.00 Credit(s)

Spring Senior Year

ED 401	Educational Technology	3.00 Credit(s)
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Summer 1 Fifth Year

ED 554	Elementary Curriculum & Methods: Reading, Writing & Language Arts	3.00 Credit(s)
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Summer 2 Fifth Year

ED 556	Elementary Curriculum & Methods: Science	3.00 Credit(s)
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Fall Fifth Year

ED 555	Elementary Curriculum & Methods: Social Studies	3.00 Credit(s)
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Spring Fifth Year

ED 589	Student Teaching Seminar: Elementary	6.00 Credit(s)
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During the fifth year, candidates are expected to complete 21 additional credits of graduate education courses to complete the MAT degree.

For further specifics about the Teacher Education programs or about advanced teaching degrees and certification programs for those who have already earned a bachelor's degree, contact the Office of Graduate Admissions at (203) 365-7642.

Secondary Teacher Certification

Rene Roselle, PhD

Director of Teacher Preparation

Office Phone: 203 365-7655

Fax: 203 365-7513

Email: roseller@sacredheart.edu

Students who wish to teach middle school or high school can begin pursuing secondary teaching certification during their undergraduate study and complete their teacher certification and MAT in the Five Year Program. These students major in the subject they wish to teach. The Isabelle Farrington College of Education offers certificate programs in Biology, Chemistry, English, General Science, Mathematics, Social Studies (History), and Spanish. These students complete the major in their respective subject and also complete part of their study for teacher education as undergraduates.

Scholarships

The Isabelle Farrington College of Education awards three endowed and one termed scholarships to undergraduates. For further information, contact the Dean's Office at 203-365-4791.

Endowed Scholarships

Isabelle T. Farrington Award - Available to students in the junior or senior class who demonstrate superior academic performance and potential and have a sincere interest in and practice of the principles of citizenship and religion for which Sacred Heart University has been established.

Sandra Lynn Nobili Award - Given to a Catholic student entering the senior year and planning a career in elementary education. The recipient must have a cumulative average of 3.0 or better.

Robert M. Paul Award - Available to full-time undergraduate students. Preference is given to a Bridgeport Catholic high school graduate who

has demonstrated financial need.

Termed Scholarship

Noyce Scholarship Award - Available to students in the junior or senior class who seek certification in Secondary Biology or Secondary Mathematics and agree to teach in a high-needs school upon completion of the Five Year Program. Scholarship extends to the graduate year (3 years).

CERTIFICATION REQUIREMENTS

Students admitted to the secondary teacher certification programs must complete the courses listed below for Connecticut state certification. For students following the Five Year+ MAT/Certification program, an additional 24 credits of graduate study in education is required to complete the MAT degree. The terms of study of the certification courses are indicated here. The additional course schedule is provided on the plan of study developed with your Education faculty advisor on admission to the college and program. Candidates must complete all 10 prerequisite certification courses before entering student teaching. Candidates must complete the courses with an average grade of B or better. For students accepted into the secondary teacher certification program, the sequence of those courses required for certification is as follows:

Fall Junior Year

ED 300	Educational Psychology	3.00 Credit(s)
ED 302	Education in the U.S.	3.00 Credit(s)

Spring Junior Year

ED 301	Introduction to Exceptionalities	3.00 Credit(s)
ED 304	Multicultural Education	3.00 Credit(s)

Fall Senior Year

ED 405	Classroom Management: Secondary	3.00 Credit(s)
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Spring Senior Year

ED 401	Educational Technology	3.00 Credit(s)
ED 402	Societal Issues in Adolescence	3.00 Credit(s)

Summer 1 Fifth Year

One of the following:

ED 511	Secondary Curriculum: Biology	3.00 Credit(s)
ED 512	Secondary Curriculum: Chemistry	3.00 Credit(s)
ED 513	Secondary Curriculum: English	3.00 Credit(s)
ED 514	Secondary Curriculum: General Science	3.00 Credit(s)
ED 515	Secondary Curriculum: Mathematics	3.00 Credit(s)
ED 516	Secondary Curriculum: Social Studies	3.00 Credit(s)
ED 517	Secondary Curriculum: Spanish	3.00 Credit(s)

Summer 2 Fifth Year

EDR 510	Content Area Reading Instruction (Grades 7-12)	3.00 Credit(s)
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Fall Fifth Year

One of the following:

ED 531	Secondary Methods: Biology	3.00 Credit(s)
ED 532	Secondary Methods: Chemistry	3.00 Credit(s)
ED 533	Secondary Methods: English	3.00 Credit(s)
ED 534	Secondary Methods: General Science	3.00 Credit(s)
ED 535	Secondary Methods: Mathematics	3.00 Credit(s)
ED 536	Secondary Methods: Social Studies	3.00 Credit(s)
ED 537	Secondary Methods: Spanish	3.00 Credit(s)

Spring Fifth Year

One of the following:

ED 581	Student Teaching Seminar: Biology	6.00 Credit(s)
ED 582	Student Teaching Seminar: Chemistry	6.00 Credit(s)

ED 583	Student Teaching Seminar: English	6.00 Credit(s)
ED 584	Student Teaching Seminar: General Science	6.00 Credit(s)
ED 585	Student Teaching Seminar: Mathematics	6.00 Credit(s)
ED 586	Student Teaching Seminar: Social Studies	6.00 Credit(s)
ED 587	Student Teaching Seminar: Spanish	6.00 Credit(s)

During the fifth year, candidates are expected to complete 24 additional credits of graduate education courses to complete the MAT degree.

For further specifics about the Teacher Education programs or about advanced teaching degrees and certification programs for those who have already earned a bachelor's degree, contact the Office of Graduate Admissions at (203) 365-7642.

College of Health Professions

MAURA DALY IVERSEN, PT, DPT, SD, MPH, FNAP, FAPTA

Dean, Professor of Public Health and Physical Therapy and Human Movement Sciences

JODY BORTONE, EdD

Associate Dean of Faculty Affairs and New Initiatives, Clinical Associate Professor of Occupational Therapy

GAIL SAMDPERIL, EdD

Associate Dean of Students, Interim Program Director of Master of Athletic Training, Clinical Associate Professor of Athletic Training

MISSION STATEMENT

The College of Health Professions' mission is to create an inclusive, collaborative and experiential learning environment in order to educate skilled health professionals dedicated to social justice, mutual respect, and human dignity. We prepare skilled healthcare professionals whose practice is rooted in evidence and reason and who value interprofessional engagement. We strive to educate individuals who lead with distinction in practice, teaching, service, and research. We inspire our graduates to advance this mission and to foster strong interpersonal connections with consumers, colleagues, communities, and global partners.

WE ARE

An interprofessional community of faculty who are experienced clinician scholars, translational researchers, public health practitioners, hospital administrators, clinical specialists, and community leaders supported by dedicated administrative staff who serve our undergraduate and graduate students. We actively engage alumni and partner with clinical sites, schools, local community centers and organizations to provide students with clinical internships, preceptorships, and service-learning experiences.

WE ASPIRE TO BECOME RECOGNIZED AS A COMMUNITY OF :

- Educators skilled in the use of innovative pedagogies and high impact practices.
- Practitioners dedicated to reducing healthcare disparities, promoting diversity and inclusion, promoting health and wellness.
- Practice scholars who accelerate the impact of health sciences through interprofessional collaborative teamwork and translational research.
- Service providers who support the needs of our local and global partners.
- Enterprising leaders who serve our clients, students, communities, and advance our professions.

WHAT WE VALUE

The College of Health Professions seeks to foster the development of women and men who demonstrate intellectual and professional integrity, who value compassionate service to others, and who take leading roles in communities governed by spiritual and moral values.

As a professional college within a Catholic university rooted in the liberal arts tradition, the College of Health Professions is committed to providing an education built upon deep respect for the dignity of the human person and a recognition of the responsibility of each individual to contribute to the building of a more just society. All professional programs in the college are accredited and approved by the appropriate professional and government agencies.

UNDERGRADUATE PROGRAMS OFFERED

Bachelor of Science in Exercise Science, Bachelor of Science in Communication Disorders, Bachelor of Science in Health Science: Healthcare Administration Concentration, Public Health Concentration, Global Health Concentration, Radiologic Science Track, Minor in Global Health.

ACCELERATED BACHELOR OF SCIENCE TO GRADUATE PROGRAMS

Sacred Heart University offers qualified University undergraduates the opportunity to complete an undergraduate degree and a graduate degree within 5 years:

3 + 2 Exercise Science and Nutrition Program

3 + 2 Exercise Science and Public Health Program

3 + 2 Exercise Science and Athletic Training

3 + 2 Exercise Science and Occupational Therapy

3 + 2 Communication Disorders and MS in Speech-Language Pathology

3 + 2 Health Science and Public Health

3 + 2 Health Science and Occupational Therapy

Athletic Training

ATHLETIC TRAINING

The Athletic Training Education Major at the undergraduate level is being phased out, and those seeking certification in Athletic Training should consult a departmental advisor and review Sacred Heart University's graduate program in Athletic Training. No further students will be admitted to this program after Fall 2016, although those already in the program will be allowed to graduate in the program as long as they continue study without interruption. Please see the Athletic Training program webpage for additional details and curriculum requirements.

Exercise Science Major

Exercise Science Major

The exercise science (EX) major is designed for those students who are seeking a broad background in exercise, fitness, and sport science. It can also serve as a foundation for graduate study in athletic training, physical therapy, exercise physiology, biomechanics, cardiac rehabilitation, chronic disease management, wellness, strength and conditioning, and nutrition. The didactic and clinical components allow students the opportunity to explore related areas of study, including exercise physiology, strength and conditioning, exercise prescription, and fitness assessment. Graduates from the EX major are prepared to pursue either employment opportunities in health and fitness settings or graduate school in those health professions noted above. Five accelerated pathways culminating in either a graduate professional degree in Physical Therapy, Exercise Science and Nutrition, Public Health, Athletic Training, or Occupational Therapy are available as an EX major. Students interested in pursuing an accelerated program should contact the EX program for additional information.

Differential Tuition

Sacred Heart University has implemented a differential tuition for the EX program. The cost of EX education is increased relative to other majors due to intensive clinical laboratory courses and clinical supervision required to maintain the professional standards of exercise science education in addition to the associated expenses of clinical education. This charge will be reflected as a program fee each semester in addition to undergraduate tuition and fees. The fee will be initiated for EX upon admission to the major.

All EX students must maintain a minimum grade point average (GPA) of 2.5 and receive a C or better in all prerequisite and required courses. This undergraduate program leads to a Bachelor of Science (BS) degree in Exercise Science.

Additional Requirements

All students are required to maintain current CPR with AED Certification (or its equivalent), annual PPD verification and sexual misconduct training. SHU offers both CPR certification and sexual misconduct training annually and PPD testing can be obtained from University Health Services. Students will not be permitted to participate in any designated EX service learning courses and/or clinical experiences (EX 366, EX 367, EX 398) without completing the above criteria. Students are responsible for providing transportation to off-campus sites

Faculty

WENDY BJERKE, PhD, PAPBS
Clinical Professor

BEAU GREER, PhD, CSCS
Graduate Program Director

Professor

JONATHAN HUDAK, MS, CSCS

Clinical Exercise Scientist

CHRYL MALONEY

Administrative Assistant

MATTHEW MORAN, PhD
Undergraduate Program Director
Associate Professor

PETER RONAI, MS, RCEP, CEP, EP-C, CSCS, FACSM
Clinical Professor

ERIC SCIBEK, MS, ATC, CSCS
Clinical Associate Professor
ALICIA STANNARD, PhD
Assistant Professor

CHRISTOPHER TABER, PhD, CSCS, CEP, PES, USAW2

Assistant Professor

JUSTIN WAGER, PhD
Assistant Professor

Global Health Minor

Global Health Minor

CHRISTINA GUNTHER, MA, EdD Candidate
Director, Global Health Programs

MOLLY HIGBIE, MA
Assistant Director, Global Health Programs

Overview/Rationale

Globalization has brought about rapid change as citizens, governments, and markets worldwide have become increasingly interdependent. Today's health professions graduates will need the knowledge, skills, and abilities to thrive in a competitive, globalized healthcare setting.

The minor in Global Health responds to the demands of the 21st century

by providing students with competencies through a broad based and multidisciplinary program designed to prepare them for global engagement and global health incidents. It is designed for students who have strong international interests and wish to pursue those interests in a program of study. The minor is administered through the Health Science Program in the College of Health Professions.

Degree Requirements

A total of 18 credit hours of global health studies coursework is necessary for completion of the minor, including an introduction to Global Health course.

COURSE REQUIREMENTS

Required/Core Courses (12 Credits)

HS 230	Introduction to Global Health	3
HS 304	Community & Public Health	3
HS 332	Global Health Systems	3

Economic Systems (3 credits)

EC 211	Economics of Social Issues	3
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Elective Course (3 Credits)

PO 242	International Organizations	3
PO 341	International Law	3
SO 254	Society & Economic Change	3
TRS 342	Human Rights	3

Health Science Major

HEALTH SCIENCE

The Health Science major leading to a Bachelor of Science in Health Science (BSHS) is based on healthcare education designed to foster development of human values, effective interpersonal skills, quality of care, and a scientific foundation. The Health Science curriculum includes inter-professional education and provides the student with a sound base for graduate education and career advancement in various health related fields. The program fosters the student's ability to think critically, analyze information and communicate effectively with diverse stakeholders. The program prepares students to solve the myriad challenges faced daily in health related environments in an ever changing world.

Coursework is offered in a flexible plan allowing students the time to experience real-world practice through internships and study abroad. The Health Science major consists of three distinct concentrations and one track:

- Healthcare Administration
- Public Health
- Global Health
- Radiologic Science TrackThe Healthcare Administration curriculum provides insight into administrative practices including supervision, strategic planning, change management, policy and fiscal responsibility. Healthcare ethics, patient rights and safety and regulatory compliance are addressed within the curriculum. The Public Health curriculum includes coursework surrounding health education and promotion, health communication, and community health planning. Healthcare ethics, principles of equity and

behavioral aspects of health are also covered. The Global Health curriculum offers an understanding of emerging and re-emerging infectious diseases and their impact on global disease burden, multidisciplinary healthcare programs in action and healthcare systems around the globe. Concepts of social justice, cultural competence, and social issues are addressed. The Radiologic Science track is for students holding an associate's degree in radiography who are interested in obtaining a bachelor's degree and advancing their education in radiological services. Graduates of the Health Science Radiologic Science Track will be positioned to continue their careers in diagnostic services.

FACULTY

Clotilde Dudley-Smith, EdD, MPA

Clinical Assistant Professor

Christina Gunther, MA, EdD Candidate

Interim Program Director

Molly Higbie, MA

Adjunct Instructor

Patricia W. Walker, Ed.D., FASAHP

Professor

STAFF

Carolyn Guarino

Program Assistant

Matthew Wingert, MA

Academic Advisor

REQUIREMENTS

The Health Science (HS) major consists of 22 credits of required major core courses and 30 concentration core and elective courses.

Prerequisite courses and GPA requirements vary greatly for the graduate professional programs; therefore, students wishing to pursue graduate work in a professional program are strongly advised to discuss plans of study with the Health Science academic advisor to prepare for the specific program of interest. Students are required to maintain a 2.7 cumulative GPA in Health Science requirements to remain in the major with no individual required course or required supporting course grade below a C. Students falling below a Health Science 2.7 GPA will receive academic disciplinary action including probation or dismissal.

Radiologic Science Track majors must take 15 credits of HS required major core courses and 34 credits of HS elective and sciences courses. Upper level radiologic science options range between 18 and 19 credits. A minimum GPA of 3.0 must be maintained.

3 + 2 Health Science/Occupational Therapy Option The College of Health Professions offers qualified University undergraduates the opportunity to complete an undergraduate degree in Health Science and a graduate degree in Occupational Therapy in 5 years (3 years of undergraduate course work and 2 years of graduate course work). Students choosing the 3 + 2 option must work carefully with their undergraduate advisor to follow a specific sequence of study. All

summer courses must be taken at Sacred Heart University. A specific plan of study can be found on our website.

3 + 2 Health Science/Public Health Option The College of Health Professions offers qualified undergraduates the opportunity to complete an undergraduate degree and a Master of Public Health degree within five years. The ability to take advantage of the 3+2 option (3 years of undergraduate course work and 2 years of graduate course work) is available to students who choose an undergraduate major in Health Science with the Public Health concentration. Students choosing a 3+2 option must work carefully with their undergraduate advisor to follow a specific sequence of study. Please note that some summer and winter course work is required for this 3+2 option. All summer courses must be taken at Sacred Heart University. A specific plan of study can be found on our website.

Required Health Science Coursework

Healthcare Administration:

- 22 Credits of Health Science Major Core Coursework
- 21 Credits of Concentration Core Coursework
- 9 Credits of Concentration Electives

Public Health:

- 22 Credits of Health Science Major Core Coursework
- 18 Credits of Concentration Core Coursework
- 12 Credits of Concentration Electives

Global Health:

- 22 Credits of Health Science Major Core Coursework
- 21 Credits of Concentration Core Coursework
- 9 Credits of Concentration Electives

Radiologic Science Track:

- 49 credits of Health Science coursework and science courses are required. Courses transferred in from the associates in radiography may partially fulfill these requirements. Between 18 and 19 upper level radiologic science credits must be completed in either advanced imaging, diagnostic medical sonography, women's imaging or management.

Transfer of Credits:

A maximum of sixty (60) credits may be applied to a baccalaureate degree from a two-year college and a maximum of ninety (90) credits may be applied from a four-year college or university. Sacred Heart University accepts a maximum of 15 credits as "free electives" for transfer and a maximum of 50% of the major's course credits for transfer.

Pre-Occupational Therapy

Pre-Occupational Therapy preparation is a three- or four-year course of study leading to the baccalaureate degree and completion of required Occupational Therapy program prerequisite courses, followed by two years of graduate study in Occupational Therapy. Pre-Occupational Therapy in itself is not an undergraduate major at Sacred Heart University. Graduate study in Occupational Therapy requires two calendar years, including summers, of graduate-level coursework and supervised clinical fieldwork education beyond the baccalaureate degree. Students may complete their undergraduate degree in a discipline of their choice. Sacred Heart University undergraduates interested in completing their undergraduate study in three years may consider the 3 + 2 plan of study, if they major in Health Science, Sociology, Psychology, or Exercise Science, providing that they complete all required prerequisites and meet all enrollment criteria by the end of the summer prior to enrollment. Refer to the respective Sacred Heart University program websites for the 3 + 2 plan of study. Students must successfully complete all required prerequisites by the end of the summer prior to enrollment. A 3.2 cumulative GPA, 3.2 prerequisite GPA with no prerequisite grade below a C, is required. Only one prerequisite course may be retaken only one time. All of the following prerequisite courses must be completed with grades entered with the University Registrar by the June 30 application deadline to determine admission status and eligibility for enrollment in the program: psychology, statistics, biology with lab, human anatomy & physiology I with lab, and human anatomy & physiology II with lab. Sacred Heart University undergraduate applicants must submit Graduate Record Examination (GRE) scores to the Office of Graduate Admissions by August 30th following the June 30th application. For details regarding the Graduate Occupational Therapy program, program accreditation, admission, admission criteria, and application information, see the Sacred Heart University Graduate Catalog or contact the Office of Graduate Admissions.

Faculty

SHARON M. MCCLOSKEY, EDD, MBA, OTR/L, DipCOT

Interim Chair and Director of Graduate Occupational Therapy Program, and Clinical Associate Professor

LENORE FROST, PhD, CHT, FAOTA, OTR/L

Clinical Associate Professor

LOLA HALPERIN, MA, OTR/L

Clinical Assistant Professor

MARY-ELLEN JOHNSON, OTD, OTR/L

Clinical Assistant Professor

ELLEN MARTINO, OTD, OTR/L

Clinical Assistant Professor

HEATHER MILLER-KUANECK, PhD, FAOTA, OTR/L

Associate Professor

SHEELAGH SCHLEGEL, MPH, OT/L

Academic Fieldwork Coordinator and Clinical Assistant Professor

Freshman Admission Decision

A freshman admission decision application option is available to outstanding incoming Sacred Heart University freshmen. Freshman admission requirements include:

- Successful completion of four years of high school science.
- High school GPA of 3.2 or higher in academic courses (math, science, history, English, modern foreign language).
- SAT scores of 1050 or higher (SAT required).
- Note: Advanced Placement (AP) courses may meet prerequisite requirements ONLY if grades are entered on a college or university transcript.

Sacred Heart University students accepted to the Occupational Therapy program as freshmen must meet all of the Occupational Therapy program's admission criteria as a condition for keeping their seat and enrolling in the graduate Occupational Therapy program. Students admitted into the program as freshmen who do not meet all of the following criteria at the time of application will forfeit their seat and admission status in the Occupational Therapy program and will be ineligible for continued enrollment in the graduate Occupational Therapy program.

Prior to enrollment:

- Successful completion of the baccalaureate degree in an undergraduate major.
- Cumulative GPA of 3.2.
- Successful completion of all prerequisite course requirements with no individual prerequisite course grade below a C and a 3.2 prerequisite GPA. Only one prerequisite may be retaken only one time. Required prerequisites are: statistics*, biology with laboratory, human anatomy & physiology I with laboratory*, human anatomy & physiology II with laboratory*, psychology, abnormal psychology, lifespan development with content covering the entire lifespan, and sociology or anthropology or multicultural/diversity studies (*must have been taken within the most recent five years).

At the time of application:

- Successful completion of the following prerequisites: biology with lab, human anatomy & physiology I and II with labs, statistics, and psychology (see GPA requirements above).
- Completion of the online graduate application with official transcripts for all undergraduate college and university work submitted by June 30 following the junior year for 4 + 2 students and June 30th following the sophomore year for 3 + 2 students.
- Graduate Record Examination (GRE) scores must be submitted by August 30th following the June 30th application. GRE Analytic Writing scores of 3.5 are required and combined Verbal and Quantitative Reasoning scores of 300 or better are desired.
- Earned bachelors' degree in any major and successful completion of all prerequisites prior to enrollment.

Occupational therapy students must be able to perform the essential functions consistent with occupational therapy practice. Students must

meet the requirements for the essential functions with or without reasonable accommodations. Please see the occupational therapy program's website for the policy and list of essential functions.

Early or Regular Admission Application

Sacred Heart University undergraduates who were not directly admitted as freshman may apply competitively, submitting their completed application to the Office of Graduate Admissions by June 30th following their junior year for 4 + 2 students, and by June 30th following their sophomore year for 3 + 2

Students external to Sacred Heart University may apply competitively for Early or Regular Decision. Highly qualified applicants who meet or exceed the admission criteria are encouraged to apply by the October 30th Early Decision application deadline. Regular Decision application deadline is December 15th. See the Sacred Heart University Graduate Catalog for admission standards and application deadlines.

Program Accreditation

Sacred Heart University's Graduate Occupational Therapy Program leading to the Master of Science in Occupational Therapy (MSOT) is fully accredited through 2026/2027 under "The Standards for an Accredited Educational Therapy Program for the Occupational Therapist - 2011" by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449, telephone c/o AOTA (301)-652-AOTA (2682).

The program is responsible for complying with all ACOTE accreditation standards and policies and interacting with ACOTE with integrity and honesty. The program will inform ACOTE of all major changes in curriculum, site locations, online/onsite formats, and the program director in a timely manner. The program will honestly and accurately represent the program and its ACOTE accreditation status in all its publications and web page available to the public.

More Information about Accreditation:

Accreditation Council for Occupational Therapy (ACOTE)

American Occupational Therapy Association (AOTA)
4720 Montgomery Lane, Suite 200
Bethesda, MD 20814-3449
Tel: 301-652-AOTA (2682)
<http://www.acoteonline.org><http://www.aota.org>

Students must complete all fieldwork requirements within 24 month of completion of the didactic portion of the program. Graduates of the program are eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states, including Connecticut, require licensure in order to practice; however, most initial state licenses are usually based on the results of the NBCOT certification examination.

Please note that a felony conviction might affect a graduate's ability to

sit for the NBCOT exam and/or attain state licensure.

State Authorization Reciprocity Agreements

Sacred Heart University has been approved by Connecticut to participate in the National Council for State Authorization Reciprocity Agreements. NC-SARA is a voluntary, regional approach to state oversight of post-secondary distance education.

For information regarding professional licensure by state, visit Disclosures and Student Complaints

Felony Convictions

A criminal or felony background or conviction may affect a graduate's ability to sit for the NBCOT certification examination and/or attain state licensure. The graduate Occupational Therapy program requires the successful completion of all required coursework and level I and level II clinical fieldwork within 24 months of completion of coursework as a graduation requirement. The majority of clinical sites require students to complete a criminal background check (CBC), fingerprinting, and/or drug screening prior to participating in clinical education placements. Students with criminal convictions or backgrounds may not be able to obtain required clinical education experience(s), thus failing to meet the academic requirements of the Occupational Therapy program. It is therefore the Occupational Therapy program's policy that prior to enrolling in the professional graduate phase of the program, all admitted students must consent, submit to, and satisfactorily complete a criminal background check (CBC) within six (6) weeks of registration for courses as a condition of matriculation. Matriculation will not be final until the completion of the criminal background check with results deemed acceptable to the program director or academic fieldwork coordinator. All expenses associated with the CBC and/or fingerprinting and/or drug screening are the responsibility of the applicant/student. Students who do not consent to the required background check, refuse to provide information necessary to conduct the background check, or provide false or misleading information in regard to the background check will be subject to disciplinary action up to and including refusal of matriculation or dismissal from the program. Please refer to the Occupational Therapy program's webpage for the CBC policy and procedures.

Students are admitted to the program on a competitive basis. Admission is based on successful completion of admission requirements, including completion of a baccalaureate degree in a field other than occupational therapy and completion of all prerequisite courses by the end of the summer semester prior to enrollment.

If students require the summer prior to enrollment to complete prerequisites or the baccalaureate degree, any acceptance for admission into the program will be provisional to successful completion of the baccalaureate degree, all prerequisite coursework, maintenance of GPA and GRE requirements, and group interview and PBL experience with the Occupational Therapy Admissions Committee upon invitation. See the Sacred Heart University Graduate Catalog or contact the Office of Graduate Admissions for admission criteria, application procedures, and program information.

Pre-Physical Therapy

Pre-Physical Therapy

Pre-Physical Therapy preparation requires a student to complete an undergraduate degree prior to matriculation into the Doctoral Program in Physical Therapy. Students can choose a 3+3 (years) or 4+3 (years) course of study. 3+3 students must choose Biology, Exercise Science, or Psychology as their undergraduate major. 4+3 students can choose any major.

Only a grade of C or higher is accepted for all pre-requisite courses.

3+3 students must complete their undergraduate degree by May of their junior year and 4+3 students must complete their undergraduate degree by May of their senior year. The professional phase of the Doctoral Program in Physical Therapy is an additional three years. All provisionally admitted Pre-PT students must apply to the Doctoral program in the fall prior to completion of the undergraduate degree; Fall of junior year for 3+3 students and fall of senior year for 4+3 students. For application details, see the graduate admissions process. Admission to the professional phase is on a competitive basis.

The Pre-Physical Therapy preparation includes completion of an undergraduate degree plus the necessary prerequisites for the Doctor of Physical Therapy program. Some undergraduate majors have course overlap with some of the pre-requisites. Students must complete all required undergraduate coursework for their selected major, inclusive of major course requirements and Core course requirements, to be eligible for a Bachelor of Science or Bachelor of Arts degree.

REQUIREMENTS

Required Physical Therapy Prerequisite Courses (45 Credits)

BI 111	Concepts in Biology I: Molecules to Cells	3
BI 113	Concepts in Biology I Laboratory	1
BI 112	Concepts in Biology II: Cells to Organisms	3
BI 114	Concepts in Biology II Laboratory	1
CH 151	General Chemistry I	3
CH 152	General Chemistry II	3
CH 153	General Chemistry Laboratory I	1
CH 154	General Chemistry Laboratory II	1
MA 131	Elementary Statistics	3
MA 140	Precalculus	4
PY 111	General Physics I	3
PY 112	General Physics II	3
PY 113	General Physics Laboratory I	1
PY 114	General Physics Laboratory II	1
PS 110	Introduction to Psychology and one additional elective	3

Pre-Physician Assistant Studies

Pre-Physician Assistant Studies preparation is a four-year course of study leading to a baccalaureate degree and the completion of required Sacred Heart University Physician Assistant (PA) Studies prerequisite courses. Pre-Physician Assistant in itself is not an undergraduate major at Sacred Heart University. The Sacred Heart University (SHU) Master of Physician Assistant Studies (MPAS) program is a 27-month program that includes required summer course attendance, graduate-level coursework, supervised clinical experiences, and a Master's Capstone Project. Applicants must have a conferred baccalaureate degree in the discipline of their choice, but a Health Science or Biology degree is preferred as it offers students a solid science foundation. Additional prerequisites includes a minimum of 1,000 hours of paid, direct patient care experience. All required prerequisites must be completed by the October 1 application deadline to determine admission status and eligibility for enrollment in the SHU MPAS program. For additional details regarding SHU's MPAS program, please refer to the Sacred Heart University Graduate Catalog or contact the Office of Graduate Admissions

Faculty

TERESA THETFORD, DHSc, MS, PA-C

Department Chair, Program Director, Clinical Associate Professor

REYNOLD JAGLAL, MBA, PA-C

Director of Clinical Education, Clinical Assistant Professor

ERIC NEMEC, PHARM.D., MEHP

Director of Research and Assessment, Clinical Associate Professor

ADAM OLSEN, PA-C, MS

Director of Didactic Education, Clinical Assistant Professor

MELISSA CHAPLIK, MMS, PA-C

Principal Faculty, Clinical Assistant Professor

HENRY YOON, MD

Medical Director and Clinical Associate Professor

Program Overview

Sacred Heart University Graduate Program in Physician Assistant Studies is for candidates with an earned Bachelor's Degree. The program will prepare our graduates for generalist practice as a physician assistant (PA). Graduates will draw from program didactic and experiential learning to provide quality, evidence-based, patient-centered healthcare to persons of various ages and in varied settings within interprofessional teams.

The SHU Master of Physician Assistant Studies Program is a 27-month program that will offer a 12-consecutive month didactic phase, a 15-month clinical phase that includes a Master's Capstone Project. Clinical rotations are ten 5-week clinical rotations that will provide each student with 2,000 hours of supervised direct patient care experiences.

The MPAS program prepares individuals to practice medicine with the supervision of a licensed physician, in compliance with the PA Profession Competencies described and accepted by the profession. Students are educated to provide compassionate, respectful, high-quality healthcare, and have proficiency in the competencies as described by the profession PA Competencies. Graduates of the program are eligible to sit for the Physician Assistant National Certification Examination (PANCE). After

successfully passing the PA National Certification Exam, graduates of the SHU MPAS Program will qualify to work in any of the 50 states as a certified PA (PA-C). The PA-C must then apply for and obtain state licensure in the state they wish to work.

Program Accreditation

The ARC-PA has granted **Accreditation-Provisional** status to the **Sacred Heart University Physician Assistant Program** sponsored by **Sacred Heart University**.

Accreditation-Provisional is an accreditation status granted when the plans and resource allocation, if fully implemented as planned, of a proposed program that has not yet enrolled students appear to demonstrate the program's ability to meet the ARC-PA *Standards* or when a program holding Accreditation-Provisional status appears to demonstrate continued progress in complying with the *Standards* as it prepares for the graduation of the first class (cohort) of students.

Accreditation-Provisional does not ensure any subsequent accreditation status. It is limited to no more than five years from matriculation of the first class.

For information about accreditation, please visit the ARC-PA website at www.arc-pa.org.

Background Check

Successful completion of the MPAS program includes satisfactory completion of the clinical education component of the curriculum. The majority of clinical sites now require students to complete a criminal background check prior to participating in clinical education placements. Some facilities may also require fingerprinting and/or drug screening. State licensure laws may also restrict or prohibit those with criminal convictions from obtaining a professional license to practice following graduation. Thus, students with criminal convictions or backgrounds may not be able to obtain required clinical education experience(s) thereby failing to meet the academic standards of the Program.

It is therefore the policy of PA Program that all admitted students enrolled in the MPAS Program must consent, submit to, and satisfactorily complete a criminal background check as a condition of matriculation. Matriculation will not be final until the completion of the criminal background check with results deemed acceptable to the Program Director or MPAS Director of Clinical Education.

All expenses associated with the criminal background check are the responsibility of the student. Students who do not consent to the required background check, refuse to provide information necessary to conduct the background check, or provide false or misleading information in regards to the background check will be subject to disciplinary action up to and including refusal of matriculation or dismissal from the program.

Criminal background information is strictly confidential, for use only by authorized MPAS Program faculty and/or administrative staff, and shall be retained only until the student graduates or is dismissed from the program.

Graduate Admissions Requirements

Sacred Heart University (SHU) Master of Physician Assistant Studies seeks students who are mature, possess excellent communication skills, are team-oriented, and demonstrate intellectual capacity and integrity.

The SHU Physician Assistant (PA) Program uses a holistic admissions process. This is a process by which applicant's cognitive skills, such as GPA, are balanced with non-cognitive variables including but not limited to commitment to service, cultural sensitivity, empathy, capacity for growth, emotional resilience, strength of character, and interpersonal skills. This approach encourages diversity and the equitable evaluation of well-rounded applicants. Witzburg, R. A., & Sondheimer, H. M. (2013). Holistic review: Shaping the medical profession one applicant at a time. *New England Journal of Medicine*, 368, 1565-1567.

Applicants must use the Central Application Service for Physician Assistants (CASPA). All prerequisites and requirements must be completed by the SHU admissions deadline of October 1.

All applicants, including graduates from foreign institutions, must hold either U.S. Citizenship or Permanent Residence status at the time of application. Applicants with pending citizenship or temporary residency will not be considered.

Degree Prerequisites

An earned baccalaureate degree from a regionally accredited college or university, or an equivalent institution as determined by Sacred Heart University, is required to be conferred by the SHU admissions deadline (October 1).

Applicants educated outside the U.S. must utilize a transcript evaluation service to verify their degree and coursework. The academic record must show credits and grades equivalent to those given by U.S. institutions of higher learning.

Coursework Prerequisites

The following courses must be completed at a regionally accredited institution in the United States, with a grade of "C" or better by the Oct. 1 deadline and are the minimum requirements for all applicants.

16 semester units of Biological Science courses*, which must include:

- Microbiology w/lab
- Human Anatomy w/lab
- Human Physiology w/lab
- Upper Division College-Level Biological Science w/lab
 - Examples of acceptable coursework: Cell Biology, Human Genetics, Immunology, Molecular Biology, Neurobiology and Pathology
 - General Biology/Biology I is not an acceptable course for the Upper Division College-Level Biological Science requirement

One course of EACH of the following:

- Organic Chemistry I and Organic Chemistry II with labs or Biochemistry with lab (Biochemistry preferred)
- Statistics (Biostatistics preferred)
- General Psychology

Advanced Placement (AP) credits will be accepted for Psychology and Statistics.

Highly recommended courses, but not required:

- Human Genetics

- Abnormal Psychology
- Biostatistics
- Biochemistry

*SHU PA Studies accepts prerequisite lecture courses completed online but does not accept labs completed online. SHU PA Studies requires that all labs be completed in a classroom setting. Virtual labs are not considered an acceptable format. Some online courses offer an online lecture with labs completed in a classroom setting; this is an acceptable format.

SHU PA Studies does not accept transfer credits from other PA Programs, and does not accept applications for challenge examinations. We do not accept previous experience or medical training for advanced placement in the PA Studies program. All students are expected to complete all didactic and clinical elements of the PA Studies program.

Minimum Requirements

- Overall GPA of 3.0
- All prerequisite courses: Cumulative GPA of 3.0
- A minimum of 1,000 hours of verifiable, paid, direct patient care experience in the U.S. healthcare system. Healthcare experience will be evaluated based on the type of work and level of patient interaction

Examples of paid, direct patient experience includes but is not limited to:

- Back Office Medical Assistant (MA)
- Certified Nursing Assistant (CNA) or Patient Care Assistant (PCA)
- Emergency Department Technician
- Emergency Medical Technician (EMT)
- Licensed Practical Nurse (LPN/LVN)
- Medical Scribe
- Military medic or corpsman
- Paramedic
- Physical Therapy Aide
- Radiological Technician
- Respiratory Therapist

Highly competitive applicants will also possess the following:

- Participation in community service or volunteer work
- Greater than 1,000 hours of paid, direct patient care experience completed in the U.S healthcare system
- Prerequisite GPA of 3.10 or greater
- Completed college-level science course credit hours of 80 hours or more

Additional consideration will be given to applicants with current Connecticut resident status, or applicants with verifiable military service. SHU participates in the Yellow Ribbon Program: <http://www.sacredheart.edu/officeservices/registrar/vabenefits/yellowribbonprogram/>

Applicants with an earned bachelor's or master's degree from Sacred Heart University or a current Stamford Hospital employee, or a current Stamford Health Medical Group employee who meet all minimum requirements and Technical Standards will be granted an in-person interview.

Additional Requirements

- Application through the Central Application Service for Physician Assistants (CASPA)
- Three letters of reference: must include at least one letter from a work supervisor
- Personal statement (on CASPA)
- Official college transcripts (sent to CASPA)
- Supplemental SHU Essay Questions completion (on CASPA)
- Successful interview, by invitation only
- Must meet all Technical Standards (see Graduate Catalog for Technical Standards, or visit <http://www.sacredheart.edu/academics/collegeofhealthprofessions/academicprograms/physicianassistant/technicalstandards/>)
- Completion of criminal background check is required prior to starting the PA program and clinical phase
- If selected to join SHU's PA Program, a candidate is required to provide proof of patient care hours
- Completion of required SHU MPAS Health and Immunization clearance

Test Scores

- Scores from the Graduate Records Examination (GRE) are NOT required for admission to the SHU PA Program.
- Applicants who have not earned a baccalaureate degree from a regionally-accredited institution in the U.S. must also submit official scores from the Test of English as a Foreign Language (TOEFL) regardless of the official language of the country in which the education took place, or the predominant language of the degree-granting institution. Minimum TOEFL scores accepted are:
 - Reading 22/30
 - Listening 22/30
 - Speaking 26/30
 - Writing 24/30

For updated program information, please visit
<http://www.sacredheart.edu/academics/collegeofhealthprofessions/academicprograms/physicianassistant/>

St. Vincent's College

Maryanne Davidson, DNSc, APRN, CPNP

Dean, St. Vincent's College (SVC)

Mission Statement

Rooted in the Catholic intellectual tradition, SVC honors the commitments to service and social justice that have characterized the College throughout its history and are the cornerstones of the Sacred Heart University community.

Hallmarks:

- Provides access to clinical experiences through affiliation with major medical teaching centers.
- Exhibits special concern for the underserved and those with a variety of life experiences and varying religious backgrounds.
- Provides a curriculum in which caring and compassion are integral to the development of technical and educational competencies and encourages social awareness among faculty and students.
- Provides an education, which is responsive to the current and future needs of the local healthcare environment and the greater community.
- Serves as the foundation for lifelong learning, professional development and spiritual and personal enrichment.

SVC derives its mission from the historic commitment of the Daughters of Charity of St. Vincent de Paul to care for the sick, poor and educate others for the healthcare ministry.

Vision Statement

SVC is a comprehensive Associate Degree and Certificate College in the Catholic tradition, offering programs in a diverse learning environment. The utilization of an interdisciplinary approach to teaching and learning will be facilitated through increasingly advanced technology. Our focus on the holistic development of students culminates in a knowledge of self, a root in one's faith an educated mind a healthy body, a compassionate hearts and knowledge of what it means to be a community and world citizen.

Core Values

We share a common vision and are called to act upon the following ideas and beliefs:

- Service of the Poor - Generosity of spirit, especially for persons most in need
- Reverence – Respect and compassion for the dignity and diversity of life
- Integrity – Inspiring trust through personal leadership
- Wisdom – Integrating excellence and stewardship
- Creativity – Courage innovation
- Dedication – Affirming the hope and joy of our ministry

Liberal Arts Major - Associate Degree

Associate of Arts Degree

Sacred Heart University offers a flexible Associate of Arts in Liberal Arts Degree. To obtain this degree, all candidates must complete 60 credits with a minimum of 30 credits taken at Sacred Heart University. A minimum cumulative GPA of 2.0 is required. This degree is delivered in full-or-part-time formats and classes are offered on our Fairfield campus and on-line.

In order to complete the Associates of Arts in Liberal Arts, students must (1) complete the University's Core Curriculum (45 credits), and, (2) complete a 15 credit emphasis in one of the following four areas: Humanities and Arts; Natural Sciences; Social Sciences, or, Business Studies. These courses must be at the 200-level or higher. A grade of C or better is required of all emphasis courses. Area discipline courses cannot be used in core courses.

Foundational Core (30-32 credits)

- FYS 125* First Year Seminar (3 credits)
 - CTL 125 Critical Thinking (3 credits)
 - 1 college level Mathematics course
 - 1 course from each area:
 - Natural/Physical Science
 - Literature
 - History
 - Art/Design/Communications/Foreign Languages
 - Philosophy
 - Theology/Religious Studies
 - Social/Behavioral Science
- *A grade of C or better is required.

Common Core: The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition (6 credits)

- CIT-201 and CIT-202 (p. 163)

Liberal Arts Explorations (9 credits)

See description of the Liberal Arts Explorations (p. 37) listed previously in this chapter. Students must complete one course in each area:

- Humanistic Inquiry (3 credits)
- Social and Global Awareness (3 credits)
- Scientific Literacy (3 credits)

Nursing Major - Associate Degree

The Mission of the Nursing Program is directly derived from the mission of St. Vincent's College (SVC). It focuses on the education of nurses who provide care for the sick and the sick poor. It provides a sound and stable educational environment where a diverse student population has the freedom to learn and grow intellectually and develop critical thinking skills, while adhering to a faith-based philosophy and established standards of professional nursing practice. Faculty members are qualified, caring teachers and nurse-educators. Faculty are dedicated to excellence in nursing education, patient care, lifelong learning and the mission of the College.

The Associate Degree Program in Nursing is approved by the Connecticut State Board of Examiners for Nursing and is accredited by the Accreditation Commission for Education in Nursing.

The nursing curriculum is built upon a foundation drawn from the biological and social sciences as well as the humanities. Nursing courses include classroom, college laboratory, and clinical laboratory experiences. Graduates must successfully complete a minimum of 72 credits for the nursing major.

Progression Criteria:

- TEAS VI score: Applicants must have an adjusted individual total score of 60% or higher. The college will consider the scores from the first and second attempt only (within the last year). If you do not achieve a score of 60% or higher by the second attempt you are not eligible to begin NUR 101 and will be recommended for dismissal from the Nursing Program. TEAS test score must be submitted prior to registration for NUR 101
- SVC believes that in order to be successful on the TEAS test applicants should have taken Biology, Chemistry, Anatomy and Physiology I & II, and College Algebra or Mathematical Applications for Health Sciences. Applicants who have not taken these courses may apply to the nursing program but may be admitted into SVC as a pre-nursing student; upon successful completion of these courses and the TEAS test, pre-nursing students may begin NUR 101 in the nursing program on a space available basis.
- For students who take Anatomy & Physiology, Microbiology, and Mathematical Applications for Health Sciences at SVC, a grade of C+ or better must be earned to progress.

- For transfer students who took an equivalent Anatomy & Physiology and/or Microbiology course(s) at a regionally accredited institution, those who earned a grade of B- or higher will be awarded transfer credit.

- Students must maintain the overall GPA and course grade requirements and must demonstrate safe and competent practice in all nursing clinical and laboratory settings while adhering to the published professional standards of conduct.
- Students may refer to the SVC Student Guide for more specific grading requirements.

Term 1 **Credit Hours**

NUR 101: Intro to Nursing Practice	7
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Total hours subtotal	7
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Term 2 **Credit Hours**

NUR 123: Family Concepts in Nursing	5
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NUR 124: Adult Child Nursing I	4
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Term 3 (Term 1 for LPNs, after completion of LPN bridge and transition courses) **Credit Hours**

NUR 230: Adult Child Nursing II	5
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NUR 231: Adult Child Nursing III	6
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Term 4 (Term 2 for LPNs) **Credit Hours**

NUR 232: Adult Child Nursing IV	6
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NUR 270: Nursing Seminar	3
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Radiography Major - Associate Degree

The mission of the Radiography Program is directly derived from the mission of St. Vincent's College (SVC). It focuses on the education of radiographers who provide diagnostic services for the sick and sick poor. It provides a sound and stable educational environment where a diverse student population has the freedom to learn and grow intellectually as well as develop competencies in clinical skills. Faculty members are qualified and caring teachers and radiography educators who are dedicated to excellence in radiography education, healthcare, life-long learning and the mission of the College. The Program in Radiography establishes a technical educational foundation upon which students of radiography may continue to build their professional careers.

The Associate of Science in Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The program's current length of accreditation is the maximum eight (8) years. JRCERT contact information is: 20 North Wacker Drive, Suite 2850, Chicago, IL 60606-3182, (312) 704-5300, mail@jrcert.org, www.jrcert.org.

The radiography curriculum is built upon a foundation drawn from the biological, physical, and social sciences as well as the humanities. Radiography courses include classroom, college laboratory, and clinical laboratory experiences. Graduates must successfully complete a minimum of 72 credits for the radiography major.

Progression Criteria:

- For students who take Anatomy & Physiology, Elements of Physics, and College Algebra at SHU, a grade of C+ or better must be earned to progress.
- For transfer students who took an equivalent Anatomy & Physiology and/or Elements of Physics course(s) at a regionally accredited institution, those who earned a grade of B- or higher will be awarded transfer credit.
- Students may refer to the SVC Student Guide for more specific grading requirements.

Term 1	Credit Hours
RAD 101: Radiography I	8
Term 2	Credit Hours
RAD 112: Radiography II	8
Term 3 (Summer)	Credit Hours
RAD 200: Clinical Bridge	2
Term 4	Credit Hours
RAD 221: Radiography III	9

Term 5	Credit Hours
RAD 232: Radiography IV	9

Certificate Program - Brewing Science

The brewing science certificate program prepares students with a strong set of skills to enter or advance in the craft brewing industry or related industries. This 22 credit, 11 month program is hybrid online and on-site. Topics include recipe design, beer styles, tasting, brewery operations, brewing law, brewery management, professional equipment, quality control/assurance, among others. Students intern at one of our partner breweries. Instructors are leading professionals in craft brewing.

Certificate Program - Computed Tomography

Program of Study

The Computed Tomography (CT) certificate will prepare students to operate CT scanners to produce reconstructed 3-D images of anatomy of interest. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates to possess the knowledge, skill, and affect to meet the demands of an entry-level position in computed tomography.

Coursework includes anatomy and physiology, radiation protection, pathology, protocols, and patient care. The contrast media that will be taught is specific to computed tomography. Theory and clinical experiences will prepare -certificate completers for the ARRT® Computed Tomography certification and registration post-primary examination and for employment as an entry level CT technologist.

Admission Requirements

- Online Application
- Appropriate certification in radiologic discipline and/or unencumbered licensure as a radiographer
- Official High School Transcript or GED
- Official College Transcript (if applicable)

Certificate Program - Diagnostic Medical Sonography

Program of Study

Diagnostic Medical Sonography utilizes ultrasound technology to create images of the body's internal structures. The Diagnostic Medical Sonography certificate program gives you a foundation in ultrasound technology and trains you in the methods and techniques of scanning needed as a professional sonographer. This course contains online theory and clinical experiences at our affiliated clinical education settings.

Coursework includes anatomy and physiology, common pathology, ultrasound equipment, and scanning procedures. Competencies are reinforced during clinical hours at local medical facilities. Theory and clinical experiences will prepare graduates for the ARDMS® Sonography Principles & Instrumentation examination and corresponding specialty credential examinations in Abdomen (AB), Breast (B), Obstetrics & Gynecology (OB/GYN), and Vascular Technology (VT) as long as the applicant meets any specific specialty credential examination requirements.

Admission Requirements

- Online Application
- Appropriate certification in radiologic discipline and/or unencumbered licensure as a radiographer
- Official college transcript (if applicable)
- Copy of CPR Certification

Certificate Program - Magnetic Resonance Imaging

Program of Study

The Magnetic Resonance (MR) certificate will prepare students to operate MR equipment to produce reconstructed 3-D images of anatomy of interest. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates to possess the knowledge, skills, and affect to meet the demands of an entry-level position in magnetic resonance.

Coursework includes anatomy and physiology, MR safety guidelines, common pathology, protocols, and patient care. Contrast media will be taught that is specific to MR. Theory and clinical experiences will prepare certificate completers for the ARRT® Magnetic Resonance certification and registration post-primary examination and for employment as an entry level MR technologist.

Admission Requirements

- Online Application
- Appropriate certification in radiologic discipline and/or unencumbered licensure as a radiographer
- Official High School Transcript or GED
- Official college transcript (if applicable)

Certificate Program - Mammography

Program of Study

The Mammography course will prepare students to operate digital mammography units to produce images of patients' breast tissue. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates to possess the knowledge, skill, and affect to meet the demands of an entry-level position as a mammographer.

Coursework includes anatomy and physiology, MQSA guidelines, radiation protection, common pathology, protocols, and patient care. Theory and clinical experiences will prepare certificate completers for the ARRT® Magnetic Resonance certification and registration post-primary examination and for employment as an entry level mammographer.

Admission Requirements

- Online Application
- Appropriate certification in radiologic discipline and/or unencumbered licensure as a radiographer
- Official High School Transcript or GED
- Official college transcript (if applicable)

Non-Credit Certificate Program - Central Sterile Processing Technician

ABOUT THE PROGRAM

The Central Sterile Processing Technician Certificate Program prepares you to become a skilled, effective healthcare central sterile processing technician. The program provides you with sound technical skills and applications you will need to interact effectively in the workplace.

PROGRAM OF STUDY

This 60-hour program prepares you for a career in sterile processing and distribution. Course preparation includes Human Anatomy and Physiology, Microbiology and Infection Control, Decontamination, Sterilization, Surgical Instrumentation Processing and Distribution. In addition, clinical applications are provided to enhance your skills. As a graduate of the program, you will be eligible for national certification as a Central Sterile Processing Technician.

ADMISSION REQUIREMENTS

- Online Application
- Official high school or GED transcript
- Official college transcript (if applicable)

Non-Credit Certificate Program - Certified Nurse Aide

About the Program

If you are interested in working with healthcare professionals and contributing to the team in the care of patients, the Certified Nurse Aide Certificate Program can provide you with the knowledge and qualifications you need. According to recent studies, the need for Certified Nurse Aide within the healthcare field continues to rise!

The CNA program will train you in procedures and protocols in caring for patients. You will be CPR certified and the CNA certificate classes will prepare you for the state licensure exam which measures your nursing skills, knowledge and judgment.

Program of Study

The 8 week certificate program prepares you to function as an assistant within the healthcare team, utilizing multiple skills. The program includes a class to become CPR certified. As a graduate of the program, you will also be eligible for state certification as a Nurse Aide.

Admission Requirements

- Online Application
- Official High School or GED Transcript
- Official College Transcripts (if applicable)

Non-Credit Certificate Program - Patient Care Technician

Program of Study

Patient Care Technicians are allied healthcare workers who, upon completion of this certificate program (total of 384 hours of theory and clinical), are CPR certified, technically competent in basic phlebotomy, electrocardiogram, data entry skills and are eligible for state certification as a nurse aide. These skills enable the Patient Care Technician to work with a variety of patients in physicians' offices, clinics, extended care facilities, surgical centers, hospitals, and community agencies.

- Acute Care – 38 hours of theory and 96 hours of clinical
- Phlebotomy – 8 hours of theory and 48 hours of clinical
- Electrocardiogram (EKG) – 4 hours of theory and 48 hours of clinical
- CPR Certification and Data Processing

Admission Requirements

- Online Application
- Official High School Transcript or GED
- Official College Transcripts (if applicable)
- Copy of Certified Nurse Aide certification

Admission Requirements

Admission Requirements

Courses

AB - Arabic

AB 101/102 - Beginning Arabic I and II (3 CR each)

Intended to give students a foundation in standard Arabic. Students learn to produce Arabic sounds and write its letters. They are taught basic vocabulary, common phrases, and greetings to communicate in various settings. The Arabic world and its differing cultures and dialects are examined.

AC - Accounting

AC 221 - Financial Accounting & Reporting (3)

Emphasis on the information that the language of business provides for decision-makers. This is accomplished by using a transactions-analysis approach. Individual and team-based problems and cases are used to stress accounting fundamentals as well as the global and ethical issues of accounting decisions.

A prerequisite to AC 314 and AC 397

AC 222 - Managerial Accounting & Control (3)

Covers the role of managerial accounting in corporate management. Emphasis is on the introduction of product and service costing, profit planning, cost analysis, and the cost allocation process. Current financial accounting and control matters are reviewed and evaluated. Individual and team-based problems and cases are used to explore global ethical issues.

A prerequisite to AC 313

AC 313 - Cost Management (3)

Explores critical issues facing accounting and financial managers in the current business environment. Topics include introduction to state-of-the-art managerial accounting practices, in-depth understanding of cost management, product and service costing methods, performance evaluation, and managerial compensation systems. Global and ethical issues are examined. Written assignments, case studies, and team discussions compose much of classroom interaction.

Prerequisite: AC 222 Managerial Accounting & Control.

AC 314 - Advanced Management Accounting (3)

Introduces modern theory of management accounting and control and strategic cost management. Financial and managerial control issues faced by multinational corporations are examined. Topics include cost analysis, activity-based accounting and management, strategic cost control, agency theory, decentralization issues, and incentive and compensation systems. Case studies and development. Team discussions and empirical study compose much of classroom interaction.

Prerequisite: AC 221 Financial Accounting & Reporting.

AC 331 - Intermediate Accounting I (3)

Further discusses accounting concepts, principles and practices, placing more emphasis on the theoretical aspects involved. While intended for the Accounting major, this is also a most useful course for other majors in the College of Business.

A prerequisite to AC 332

Prerequisite: AC 221 Financial Accounting & Reporting.

AC 332 - Intermediate Accounting II (3)

Covers specialized topics in accounting including but not limited to pension accounting, debt and equity financing issues, stockholders' equity, earnings per share, international accounting, and in-depth analysis of the statement of cash flows. Emphasis is on the most recent pronouncements of the FASB and the IASB.

A prerequisite to AC 401, AC 421, and AC 431

Prerequisite: AC 331 Intermediate Accounting I.

AC 397 - Volunteer Income Tax Assistance (VITA) Program (3)

The VITA program provides low- to moderate-income taxpayers assistance in the preparation of their tax returns. Students receive Internal Revenue Service (IRS) training to help prepare basic tax returns in the local community. Once training is completed, students must pass the IRS's written examination to become VITA certified and complete the required staffing hours during tax filing season. Emphasis is on the application of current tax law, communication skills, and community service.

Prerequisite: AC 221 Financial Accounting & Reporting.

AC 401 - Advanced Accounting I (3)

Advanced Accounting covers financial accounting and reporting topics such as investments, business combinations, consolidated financial statements, foreign currency transactions, translation of foreign currency financial statements, and partnerships. The topics are analyzed from the perspective of ongoing developments in the business environment, domestic and international standard setting, and associated ethical implications.

Prerequisite: AC 332 Intermediate Accounting II.

AC 421 - Auditing I (3)

Studies audit practices used by independent public accountants in examining accounting records and statements. Emphasis is on "generally accepted auditing standards" of evaluation of internal control as well as ethical issues.

Prerequisite: AC 332 Intermediate Accounting II.

AC 431 - Federal Taxes I (3)

Introduces individual income taxation. Topics include formulation of tax statutes, research methodology, tax planning, analysis of taxable income, and ethical considerations.

Prerequisite: AC 332 Intermediate Accounting II.

AC 490 - Accounting Internship (3-9)

Students are directly involved in various dimensions of accounting. Emphasis is on the practical application of accounting principles and skills to a specific industry or organization. An on-site accounting professional supervises students.

Prerequisite: Permission of the department chairperson.

AC 499 - Independent Study (1-3)

Students work on a special topic under the direction of an instructor. Permission of the instructor and department chairperson is granted to qualified accounting majors on the basis of a written proposal from the student.

AC/FN 441 - Financial Analysis (3)

Develops students' ability to analyze financial statements to determine both asset value and earning capacity of the public corporation's securities. Requires an understanding of the positive and negative effects of operating and financial leverage, as well as ratio analysis as it concerns the capitalization, stock, and bond markets. Proof of students' ability lies in the preparation of an analysis of annual report of a major publicly held corporation.

Prerequisite: FN 215 Financial Management.

AN - Anthropology

AN 103 - Archeology (3)

Focuses on how archeology as a scientific discipline attempts to understand the development of the cultural adaptations of human groups throughout prehistory and history and how archeology interprets the past. Topics include how archeological sites are formed, dating techniques, and the analysis of plant, animal, and human artifacts and remains. With a hands-on approach, students are presented case scenarios relating to archeological digs to better understand the thinking process involved in reconstructing the past.

AN 110 - Human Cultural Diversity (3)

The aim of this course is for students to develop an anthropological imagination and understand its relevance for living in the contemporary world. An anthropological imagination involves cultivating an interest in and an understanding of the unity, diversity, and development of human biology, society, and culture. As an introduction to the study of human cultural diversity, this course emphasizes the concept of culture, human sociocultural variation, and patterns of sociocultural change in contemporary human societies.

A prerequisite to AN 250; SO 372 and SO 382

AN 201 - World Cultures (3)

Examines a cross section of societies, including hunter-gatherer, horticultural, peasant, pastoral, and industrial. Themes of cultural diversity, cultural contact, and understanding "the other."

AN 204 - Introduction to Irish Archaeology (3)

A comprehensive overview of Irish archaeology from the first settlers to modern times. Special attention will be focused on the sites and cultural history of the Dingle Peninsula.

AN 205 - North American Indians (3)

Covers the cultural development and diversity of aboriginal North America, the impact of European contact on Native American societies, and contemporary issues among North American Indians.

AN 210 - Culture, Health, and Wellness (3)

This course explores the topics of health, wellness, sickness and disease from an anthropological and cross-cultural perspective. In this course students will develop an understanding of the role of culture in the conceptualization of health and wellness and the pattern and treatment of sickness and disease. The course will also explore the role of socio-economic factors impacting on health and wellness and the patterns of treatment of sickness and disease. Finally, the course will develop a comparative, cross-cultural perspective of health, wellness, sickness and disease.

AN 220 - Ethnography of Ireland (3)

This course examines the patterns economic, social, political, and cultural change in modern Ireland through the lens of selected ethnographic studies of Irish communities. In addition, this course will examine the changing theoretical interests and research methodologies of anthropologists working in Ireland. This work will be supplemented with a selection of ethnographic films focusing on Irish communities and contemporary patterns of sociocultural change in Ireland.

AN 230 - Community, Culture & Folklore (3)

This course explores the interrelationship of folklore, social life and cultural identity in the West of Ireland and examines the role of folklore in individual and community well-being.

AN 235 - Humans in the Ice Age (3)

This course provides an overview as to the various human adaptations and cultural expressions occurring globally during the last Ice Age.

Distribution: Anthropology. Offered: Fall Semester All Years.

AN 250 - Doing Ethnography: Qualitative Research in the Social Sciences (3)

The aim of this course is for students to develop an understanding of and an ability to use ethnography as a method of social science research. Combining theoretical and applied readings and practical assignments, the focus is on participant observation and interviewing, writing field notes, and the transformation of field data into ethnographic documents. In addition, students develop an understanding of the epistemological, political, and ethical issues surrounding ethnographic research.

Prerequisite: AN 110 Human Cultural Diversity or SO 110 Sociological Imagination.

AN 280 - Native American Literature (3)

Native American literature is explored in order to develop an understanding of the history, society, and culture of Native Americans and an appreciation of their literary contributions.

AN 299 - Special Topics in Anthropology (3)

Designates new or occasional courses (i.e., one capitalizing on a timely topic).

Prerequisite: Established by the department as appropriate for the specific course.

AR - Art & Design

AR 101 - Art in the Western World (3)

Explores ideas and arts of cultures that initiate and develop into the Western tradition. Includes an analysis of the basic characteristics of the art and architecture of these eras in the context of general cultural trends.

AR 104 - American Art: Colonial to Modern (3)

Covers the ideas and ideals in American art in reference to the European mainstream. Emphasis is on styles and forms of the American environment and experience that constitute the characteristic tradition in painting, sculpture, and architecture.

AR 110 - Design: Visual Organization (3)

Investigates the compositional elements of art structure. Principles and elements of two-dimensional design line, shape, value, texture, and space are examined, with emphasis on the visual communication of ideas.

A prerequisite to AR 211 and AR 223

AR 111 - Design: Color (3)

Design principles are explored through the investigation of color interaction and color theory. Emphasis is on pigment mixing and the control of intervals of value, chroma, and intensity.

A prerequisite to AR 232

AR 113 - Digital Production Basics (3)

Digital Production Basics is designed to offer skill development and specialized knowledge in digital media software. Photoshop for digital imaging; Illustrator, a vector-based software to create digital graphics; and InDesign, professional page-layout software for print and digital publishing. This course is designed to start out with the very basics and conclude with a working knowledge in vector, pixel, and layout software for digital publishing.

AR 114 - Digital Design Basics (3)

An introduction and exploration of primary graphic design programs concentrating on Adobe Photoshop and Adobe Illustrator. Basic design concepts are explored in assignments, ensuring a basic understanding of the technological tools of design.

A prerequisite to AR 211

AR 120 - Drawing I (3)

Explores fundamental problems of composition and perception as related to drawing. Experimentation is with varied media directed toward both the descriptive and expressive visual conceptualization of ideas.

A prerequisite to AR 220, AR 223, and AR 232

AR 142 - Methods & Materials for the Classroom (3)

An introduction to incorporating non-traditional media into the traditional practice of drawing and painting through varied methods and materials of contemporary art practice. Experimentation and the combining of more than one medium will be encouraged with hands-on assignments

AR 201 - Studies in Modern Art (3)

An analysis of the works and questions raised by the arts of the nineteenth and twentieth centuries. Examines the roles of modern artists as they reflect and project or comment on life in the twentieth century.

A prerequisite to AR 206

AR 204 - Renaissance Art (3)

A critical discussion of the historical, conceptual, and formal changes in the visual arts within the 15th and 16th centuries. Includes an analysis of the influence of Italian and northern European painting on European cultures.

AR 205 - European Art: 17th-19th Century (3)

Discussion of the major developments in painting, sculpture, and architecture during the seventeenth and eighteenth centuries as modified by the historical situations and humanistic values in specific countries.

AR 206 - Contemporary Art (3)

Examines art currently in galleries and museums. Surveys the development of new approaches to form and analyzes the formal idea as related to execution and content.

Prerequisite: AR 201 Studies in Modern Art.

AR 208 - Introduction to Eastern Art (3)

Explores issues such as continuity and dichotomy of subject and style and other significant issues of Eastern art. Eastern attitudes are compared and contrasted with the art and ideas of parallel Western periods.

AR 211 - Graphic Design I (3)

An introduction to classical and modern typefaces, the mechanics of type composition, and the fundamentals of layout. Consideration is given to the selection of typefaces that enhance thought and idea.

A prerequisite to AR 270

Prerequisite: AR 110 Design: Visual Organization and AR 114 Digital Design Basics.

AR 220 - Drawing II: Life (3)

Development of the student's ability to conceive the figure as form and volume with stress on gesture, proportion, and anatomy. Emphasis is on a refinement of techniques for individual expression and self-awareness.

A prerequisite to AR 221, AR 250, and AR 262

Prerequisite: AR 120 Drawing I.

AR 221 - Drawing III (3)

An intensive investigation of media and form as related to the figure. Problems progress from structural ideas to more sophisticated exploitation of subject matter and finally to individual interpretations.

A prerequisite to AR 320

Prerequisite: AR 220 Drawing II: Life.

AR 223 - Three-Dimensional Drawing (3)

Deals with the rendering of three-dimensional space and forms. Visual processes relating to depth of field, objects in deep space, volume modeling, and conceptualizing are explored.

Prerequisite: AR 110 Design: Visual Organization and AR 120 Drawing I.

AR 225 - Design for the Web (3)

Development of skills for creating websites and interactive presentations. Emphasis on the effective organization and visual presentation of information through the use of Adobe Creative Cloud 2014.

AR 229 - Introduction to Painting (3)

An introduction to painting methods and media. Guided experimentation in oil or acrylic with emphasis on content, color interaction, and properties of the media.

A prerequisite to AR 230

AR 230 - Painting II (3)

Development of painting techniques with emphasis on pictorial organization and color sensitivity. Focus on the development of creativity and individuality.

A prerequisite to AR 231

Prerequisite: AR 229 Introduction to Painting.

AR 231 - Painting III (3)

Development of individual expression through exploration of independent compositional ideas and technical means related to content. Critiques and evaluations are constant.

A prerequisite to AR 330

Prerequisite: AR 230 Painting II.

AR 232 - Introduction to Watercolor (3)

An introduction to varied techniques of watercolor application. Assignments are based on direct studies of nature, still life, and conceptual thinking.

Prerequisite: AR 111 Design: Color and AR 120 Drawing I.

AR 250 - Introduction to Illustration (3)

Introduction of fundamental techniques used in professional illustration. Secondary emphasis on business aspects of commercial art. Assignments range from portraiture to sequential art storyboards.

Prerequisite: AR 220 Drawing II: Life.

AR 251 - Digital Illustration (3)

Introductory digital illustration course combining traditional and hands-on computer skills in Adobe Illustrator and Photoshop to create professional digital imagery and vector based graphics.

Prerequisite: AR 114 Digital Design Basics and AR 250 Introduction to Illustration.

AR 252 - Digital Illustration II (3)

Advanced digital illustration. Assignments based on jobs typical of those given in the professional arena such as advertising, publishing, and editorial illustration. Advanced level of Software skill achieved.

AR 260 - Illustration II (3)

Emphasis is on the technical study of colored pencils and watercolor. As the semester progresses, greater emphasis is placed on content and imaginative solutions. Focus is on the information gathering inherent in illustrative problem-solving.

A prerequisite to AR 261 and AR 363

Prerequisite: AR 250 Introduction to Illustration.

AR 261 - Illustration III (3)

Continued emphasis on traditional illustrative techniques used in conjunction with the digital application of Adobe Photoshop. Students are encouraged to create works of substance and complexity in regard to composition and thematic content.

A prerequisite to AR 264 and AR 360

Prerequisite: AR 260 Illustration II.

AR 262 - Head Painting & Drawing (3)

Covers structural painting and drawing of the head and its character. Emphasis on historical and traditional methods of representation using various media and techniques.

Prerequisite: AR 220 Drawing II: Life.

AR 264 - Advertising Illustration (3)

Deals with imparting visual impact and excitement for the selling of products and services. Developing illustrations for advertising with consideration of reproduction requirements. Problems deal with line, black-and-white, limited, and full- color advertising. All media.

Prerequisite: AR 261 Illustration III.

AR 270 - Graphic Design II (3)

Includes development of ideas as related to print media, publication design, and corporate identity systems. Emphasis on the ability to create effective problem-solving concepts.

A prerequisite to AR 271 and AR 272

Prerequisite: AR 211 Graphic Design I.

AR 271 - Graphic Design III (3)

Focuses on solving specific design problems by establishing ideas from rough layout to tight comps and coordinating the elements to create effective visual statements in a variety of areas.

A prerequisite to AR 370

Prerequisite: AR 270 Graphic Design II.

AR 272 - Advertising Design (3)

Explores aspects of print and rich media advertising, including its creation and presentation. Stresses concepts as related to advertising promotion.

Prerequisite: AR 270 Graphic Design II.

AR 273 - Advertising Design II (3)

Advertising Design II explores advanced levels of advertising in print, digital media, out-of-home, and guerrilla, including their creation and presentation. The course stresses development of integrated tactics that relate to specific marketing challenges.

Prerequisite: AR 370 Graphic Design IV.

AR 276 - Interactive 2D Animation (3)

Development of skills for creating two-dimensional animation, interactive presentations, and websites. Emphasis on the effective organization and visual presentation of information through Adobe Flash and other software.

AR 280 - Interactive Motion Graphics (3)

Provides a comprehensive, project-based introduction to industry-standard motion graphics and compositing applications to produce motion graphics and visual effects for film, video, multimedia, and web.

AR 299 - Special Topics in Art (3)

New or occasional courses that may become part of the department's permanent offerings. Courses capitalize on timely topics, an instructor's particular interest, or alternatives to existing courses.

Prerequisite: Established by department.

AR 320 - Drawing IV (3)

Focuses on advanced problems of perception, structure, anatomy, and concepts in drawing the human figure. Emphasis on independent development of the expressive use of various drawing media.

Prerequisite: AR 221 Drawing III.

AR 330 - Painting IV (3)

Studio emphasis on development and clarification of personal and imaginative statements. Initiative and discipline toward the production of a sustained body of consistent work is expected.

Prerequisite: AR 231 Painting III.

AR 360 - Illustration IV (3)

Focus is on editorial- and thematic-based subject matter utilizing illustrative tools and techniques introduced in previous illustration classes including traditional and digital applications. Emphasis is on the continued development and preparation of idea sketches in relation to problem-solving of illustrative art.

A prerequisite to AR 392

Prerequisite: AR 261 Illustration III.

AR 363 - Editorial Illustration (3)

A study of illustration with short story and editorial views. Preparation of idea sketches in relation to the text, page layout, and finished illustrations.

Prerequisite: AR 260 Illustration II.

AR 370 - Graphic Design IV (3)

An in-depth investigation of realistic promotional programs ranging from concept to finished visual. Emphasis on individual creative solutions relative to product and idea, budget, and client.

Prerequisite: AR 271 Graphic Design III.

AR 390 - Graphic Design Portfolio (3)

Senior capstone course focused on developing a professional portfolio, résumé, and promotional materials, culminating in a public presentation to area design, advertising, marketing, and recruitment professionals. Guidance from faculty and visiting professionals.

Prerequisite: All required art courses in major emphasis.

AR 391 - Senior Project (3)

Encompasses problem-solving and techniques indicative of the ability to work as a mature and independent artist. Includes preparation and presentation of work.

Prerequisite: All required art courses in major emphasis.

AR 392 - Illustration Portfolio (3)

The continued development and final construction of a professional presentation portfolio, résumé, and promotional materials. Additional focus on business-related information such as taxes, expenses, and contracts.

Prerequisite: AR 360 Illustration IV and all required art courses in major emphasis.

AR 396 - Internship (3)

Based on availability, qualified students are placed in positions with leading design, advertising, and marketing firms. By permission of department chair.

AT - Athletic Training

AT 221 - Athletic Training Clinical Practicum III (2)

The nature of the didactic portion of this course is problem based. Specific content includes case-based scenarios focusing on upper extremity orthopedic assessment and treatment, taping and bracing, and biomechanical assessment. Students also obtain clinical athletic training experience under the supervision and guidance of an approved preceptor. Students will gain a minimum of 168 clinical hours.

A prerequisite to AT 222, AT 242/242L, and AT 275

Prerequisite: AT 130 Athletic Training Clinical Practicum II, AT 240/AT 240L Orthopedic Evaluation II with Lab, CPR/AED for the Healthcare Provider (or equivalent). Corequisite: AT 241/241L Therapeutic Modalities with Lab.

AT 222 - Athletic Training Clinical Practicum IV (2)

This class provides classroom and clinical athletic training experience under the supervision and guidance of an approved preceptor. Specific content includes case-based scenarios focusing on spine and head evaluation, assessment, and treatment. Students will have the opportunity to listen to experts in the fields of spine, orthopedics, emergency management, and concussion. In addition, neurological assessment, postural assessment, and advanced emergency procedures for the spine are examined. Students will explore outcome measures to guide clinical decision-making based on principles of evidence-based practice, research skills, and scientific writing. Students will gain a minimum of 168 hours of clinical experience.

A prerequisite to AT 310/310L and AT 322

Prerequisite: AT 221 Athletic Training Clinical Practicum III, AT 241/ 241L Therapeutic Modalities with Lab, CPR/AED for the Healthcare Provider

(or equivalent), and Supplemental Oxygen Certification. Corequisite: AT 242/AT 242L Therapeutic Rehabilitation with Lab.

AT 241/241L - Therapeutic Modalities (3 credits) with Lab (1 credit) (4)

Utilizing the injury-response cycle as a foundation for clinical decision-making and a problem-solving approach to treatment planning, this course prepares students to investigate and analyze indications, contraindications, and setup procedures for therapeutic agents, including pharmacological influences that aid the healing of injury, reduction of pain, and assistance in the rehabilitation process among the active population.

A prerequisite to AT 222, AT 242/242L, and AT 275

Prerequisite: AT 130 Athletic Training Clinical Practicum II, AT 240/240L Orthopedic Evaluation II with Lab, and PY 104/104 L Elements of Physics. Corequisite: AT 221 Athletic Training Clinical Practicum III.

AT 242/242L - Therapeutic Rehabilitation (3 credits) with Lab (1 credit) (4)

This course will explore foundational theories and techniques of various therapeutic approaches to rehabilitation through discussion, laboratory exercise, and traditional lecture. Common surgical techniques and their implications on the rehabilitation process will also be examined. Students will have an opportunity to enhance their literature search and writing skills through the composition of a literature search paper that focuses on a select injury topic.

A prerequisite to AT 310/310L, AT 322, and AT 324/324L

Prerequisite: AT 221 Athletic Training Clinical Practicum III, AT 241/241L Therapeutic Modalities with Lab, and EX 260 Kinesiology with Lab. Corequisite: AT 222 Athletic Training Clinical Practicum IV.

AT 246 - Capstone Proposal (1)

This class provides an online learning environment with instruction in scientific writing and the development of a literature review. Students will also gain an understanding of the process of the Internal Review Board/Human Subjects Review Committee. Students will explore outcome measures to guide clinical decision-making based on principles of evidence-based practice and research skills. Students will start preparing for the senior capstone research project, which will be focused on the development of a case study, original research project, or meta-analysis.

Prerequisite: AT 251 Research Methods & Statistics in Athletic Training. Corequisite: AT 222 Athletic Training Clinical Practicum IV.

AT 255 - Nutritional Considerations for the Athletic Trainer (3)

This course provides an examination of the six classes of nutrients with primary emphasis on issues related to sports nutrition. Hydration, the use of sports beverages, and dietary supplementation for ergogenic benefit will receive substantial attention.

Prerequisite: BI 207/BI 209 Human Anatomy & Physiology II with Lab.

AT 275 - Organization & Administration in Athletic Training (3)

This course presents an overview of administrative concepts and organization of athletic training. Students gain knowledge in basic management theory and are able to apply skills learned in class through problem-based cases. Students develop budgets, learn key components in creating an athletic training room, focus on real world ethical and legal dilemmas, learn the key concepts to insurance and reimbursement, and visit various settings in athletic training unfamiliar to them. Students will have the opportunity to speak with various athletic trainers in different settings, understand the importance of continuing education, and complete a strength assessment highlighting their professional strengths and attributes. Students will gain knowledge of how to appropriately interview, write résumés and cover letters, and appropriately navigate and network within the field of athletic training.

Prerequisite: AT 221 Athletic Training Clinical Practicum III and AT 241/241L Therapeutic Modalities with Lab.

AT 310/310L - Aspects of Clinical Medicine with Discussion (3 credits) with Lab (1 credit) (4)

This course introduces athletic training students to the etiology of normal and abnormal responses to injuries/illnesses and diseases and presents an opportunity for students to acquire the necessary evaluation skills needed to provide immediate treatment or referral. Discussions center on general medicine topics: etiology pathology clinical evaluation medical management and prognosis of common types of musculoskeletal reproductive cardiovascular visceral and neurological injury and disease. Students will also participate in a general medicine clinical rotation. This course also utilizes allied health practitioners to deliver specific course content pertinent to their professional field.

A prerequisite to AT 323

Prerequisite: AT 222 Athletic Training Clinical Practicum IV, AT 242/242L Therapeutic Rehabilitation with Lab, EX 253 Pathophysiology & Pharmacology, CPR/AED for the Healthcare Provider (or equivalent), and Supplemental Oxygen Certification. Corequisite: AT 322 Athletic Training Clinical Practicum V and CPR/AED for the Healthcare Provider, and Supplemental Oxygen Certifications.

AT 322 - Athletic Training Clinical Practicum V (3)

The nature of the didactic portion of this course is problem based. Specific content includes case-based scenarios focusing on advanced orthopedic assessment and treatment, nutrition, organization and administration, and professional development. The capstone project will continue culminating in presentation. Students also obtain clinical athletic training experience under the supervision and guidance of an approved preceptor. Students will gain a minimum of 238 clinical hours for the semester.

A prerequisite to AT 323

Prerequisite: AT 222 Athletic Training Clinical Practicum IV, AT 242/242L Therapeutic Rehabilitation with Lab, CPR/AED for the Healthcare Provider (or equivalent), and Supplemental Oxygen Certification. Corequisite: AT 310/AT 310L Aspects of Clinical Medicine with Lab.

AT 323 - Athletic Training Clinical Practicum VI (3)

The nature of the didactic portion of this course is problem based. Specific content includes case-based scenarios focusing on general medicine, psychosocial issues, professional development, nutrition, and strength and conditioning. Students also obtain clinical athletic training

experience under the supervision and guidance of an approved preceptor. Students will gain a minimum of 238 clinical hours for the semester.

Prerequisite: AT 310/AT 310L Aspects of Clinical Medicine with Lab, AT 322 Athletic Training Clinical Practicum V, AT 324/324L Strength & Conditioning for Rehabilitation Professionals with Lab, CPR/AED for the Healthcare Provider (or equivalent), and Supplemental Oxygen Certification.

AT 324/324L - Strength & Conditioning for Rehabilitation Professionals (3 credits) with Lab (1 credit) (4)

This course prepares the Athletic Training student to apply a scientific basis and functional approach to the development of strength and conditioning programs for patients and clients. Students have opportunity to enhance their research and writing skills through a research assignment.

A prerequisite to AT 323

Prerequisite: AT 242/242L Therapeutic Rehabilitation with Lab and EX 250 Exercise Physiology with Lab.

BI - Biology

BI 101 - The Nature of Life (3)

This course examines science as a process to understand basic biological concepts of cells, genetics, evolution, and ecology. Students will examine current biological research and how that impacts their lives and the future of humankind. Three hours of lecture per week. Non-science majors.

A prerequisite to SW 267

BI 103 - The Human Body (3)

Focuses on human physiology and the role humans play in the health and maintenance of their bodies. Topics include human organization, processing and transporting, integration and coordination, and reproduction. Three hours of lecture per week. Non-science majors.

A prerequisite to SW 267

BI 104 - Introduction to Coastal Ecology (3)

This course investigates the interrelationship between coastal environments and the organisms living in these environments. It also looks at related societal implications. Non-science majors.

BI 107 - Heredity & Society (3)

BI 107 is a genetics course examining the evidence for proposing the existence of genes, the molecular nature of genes, and the ethical implications of recent advances in genetic research. Three hours of lecture per week. Non-science majors.

BI 109 - Biology for Elementary Teachers with Lab (3)

This course covers the fundamental concepts of biology at all levels from cells to organisms to ecosystems as outlined in the Next Generation Science Standards for K-4. The course will illustrate these principles through lecture and laboratory utilizing current pedagogy including hands-on, inquiry-oriented practices. 100 minutes of lecture and 2.5 hours of lab per week.

BI 110 - Zoological Conservation & Behavior (3)

This course introduces students to the study of animal behavior in zoos. Students will gain general skills to explore field methods for behavioral observation and data collection in a captive setting. In addition, students consider how they might use captive behavioral data to help conserve threatened and endangered animal species. Students will have the unusual opportunity to conduct field studies at LEO Zoological Conservation Center in Greenwich. Non-science majors.

BI 111 - Concepts in Biology I: Molecules to Cells (3)

BI 111 is the first foundational course in biology and provides an introduction to the molecular concepts that form the basis of cellular life. Concepts in Biology I covers the basic principles of evolution, biochemistry, cell structure and function, signal transduction, cell division, transmission genetics, the central dogma of molecular biology, and control of gene expression. Two 50-minute lectures and one 75-minute discussion/week.

A prerequisite to BI 112, BI 201, BI 202, BI 205, BI 206, BI 212, and BI 230; PS 335, PS 350, PS 351, PS 352, and PS 353

Corequisite: BI 113 Concepts in Biology I Laboratory.

BI 112 - Concepts in Biology II: Cells to Organisms (3)

BI 112 is the second foundational course in biology. The course focuses on the cellular and organismal levels in the hierarchy of biological organization. Concepts in Biology II covers adaptations of plant and animal life in an evolutionary context and includes discussion of development, body and tissue organization, homeostasis, energy yielding metabolism, nutrition, digestion, circulation, nutrient transport, and gas exchange. Two 50-minute lectures and one 75 minute discussion/week.

A prerequisite to BI 201, BI 202, BI 210, BI 212, BI 230, BI 245, BI 255, BI 274, BI 276, BI 278, BI 305, and BI 345

Prerequisite: BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab. Corequisite: BI 114 Concepts in Biology II Laboratory.

BI 113 - Concepts in Biology I Laboratory (1)

The laboratory associated with Concepts in Biology I focuses on multiweek exercises that reinforce critical concepts on the molecular and cellular levels of biological organization. The laboratory incorporates student-designed experiments, extensive journal-format scientific writing, and emphasizes science as a process. One 3-hour laboratory/week.

Corequisite: BI 111 Concepts in Biology I: Molecules to Cells.

BI 114 - Concepts in Biology II Laboratory (1)

The laboratory associated with Concepts in Biology II focuses on introduction of techniques for observing organismal physiology and behavior that reinforce critical concepts on the cellular and organismal levels of biological organization. The laboratory incorporates an open-ended multiweek student-designed experiment, extensive journal-format scientific writing, and emphasizes science as a process. One 3-hour laboratory/week.

Corequisite: BI 112 Concepts in Biology II: Cells to Organisms.

BI 126 - Nursing Anatomy & Physiology I (3)

Lecture on the investigation of cell structure and function, tissues, skeletal, muscular, and nervous systems. Three hours of lecture and one hour of discussion. Nursing students only.

Corequisite: BI 127 Nursing Anatomy & Physiology I Laboratory.

BI 127 - Nursing Anatomy & Physiology I Laboratory (1)

Laboratory involves investigation of cell structure and function, tissues, skeletal, muscular, and nervous systems. Three hours of laboratory.

Corequisite: BI 126 Nursing Anatomy & Physiology I.

BI 128 - Nursing Anatomy & Physiology II (3)

Lecture involves the investigation of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of lecture and one hour of discussion. Nursing students only.

Prerequisite: BI 126/BI 127 Nursing Anatomy & Physiology I with Lab; Corequisite: BI 129 Nursing Anatomy & Physiology II Laboratory.

BI 129 - Nursing Anatomy & Physiology II Laboratory (1)

Laboratory involves the investigation of the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of laboratory.

Corequisite: BI 128 Nursing Anatomy & Physiology II.

BI 150 - Biology of Poisons (3)

This course presents the principles of toxicology within a human context, discusses how toxicology affects everyday life, and investigates the broader issues for public health and disease prevention. Non-science majors.

BI 152 - Environment & Sustainability (3)

Students will learn about environmental science, exploring how human activity changes our natural environment. The importance of clean air, land, and water will also be discussed. Non-science majors.

BI 155 - Biology & Humanistic Inquiry (3)

Topics in Biology and Humanistic inquiry will explore how nature and culture are interconnected. This course will cover a variety of instructor selected thematic content centered on topics chosen to increase student awareness of how advances in biology have shaped human societies and culture.

BI 156 - Biology & Global Awareness (3)

Topics in Biology and Social and Global Awareness will cover a variety of instructor selected thematic content centered on topics chosen to increase enrolled students awareness of social and global issues.

BI 157 - Biology & Scientific Literacy (3)

Topics in Biology and Scientific inquiry will cover a variety of instructor selected thematic content centered on topics chosen to increase the ability of students to assess the quality of scientific information, to pose and evaluate arguments based on evidence, and to apply the principles of scientific inquiry to make and communicate reasoned and ethical judgments about the role of science and in individuals' lives, communities, and the world.

BI 161 - Introduction to Microbiology (3)

A course focused on the study of microorganisms with emphasis on morphology, cultivation, genetics of bacteria, viruses and fungi, and infectious diseases caused by these microbes. Three hours of lecture per week. Nursing students only.

Corequisite: BI 162 Introduction to Microbiology Laboratory.

BI 162 - Introduction to Microbiology Laboratory (1)

Laboratory work stresses aseptic technique and the microscopic, nutritional, and biochemical characteristics of bacteria. One three-hour laboratory period per week.

Corequisite: BI 161 Introduction to Microbiology.

BI 170 - Plants of Connecticut (3)

BI 170 is a laboratory and field-oriented course emphasizing identification of local plant life, plant structure and functions, life histories, and ecological relationships. Non-science majors.

BI 171 - Connecticut Wildlife (3)

BI 171 is a laboratory and field-oriented core course emphasizing wildlife and habitat diversity in the American Northeast, especially Connecticut. The central theme is adaptation. Topics include predation, migration, reproduction, and species identification. Five hours per week. Non-science majors.

BI 172 - Winter Wildlife (3)

BI 172 is a laboratory and field-oriented core course emphasizing winter adaptations of wildlife in the American Northeast, especially Connecticut. Topics include migration, species identification, tracking, and feeding ecology. Five hours per week. Non-science majors.

BI 174 - Introduction to Coastal Management (3)

BI 174 is a lecture and field-oriented course that introduces students to the biological, chemical, and physical theory that aids in the understanding and management of coastal ecosystems. Non-science majors.

BI 176 - Introduction to Oceanography (3)

BI 176 is a lecture and field-oriented course that introduces students to the principles of oceanography emphasizing the chemical and physical processes that affect coastal oceans. Non-science majors.

BI 190 - Seminar in the Health Professions (1)

Seminar will meet weekly for discussions and other activities associated with planning for a future in the relevant health professions. Discussion topics include advice on course selections, timing of registration for courses in relation to exams such as the MCAT/DAT/GRE, balance between pre-health studies and other academic and extracurricular goals, etc. Also included will be forums with invited speakers such as alumni, admission directors, and extracurricular program coordinators. Freshman and sophomore pre-health profession students only. Pass/fail only.

Prerequisite: Minimum GPA of 2.5.

BI 191 - Advanced Seminar on Health Professions (1)

Seminar will meet weekly for discussions and other activities associated with planning for and applying to schools in the relevant health professions. Discussion topics include advice on selecting schools for applications, application preparation, writing personal statements, advice on preparation for professional exams such as the MCAT/DAT/GRE, etc. Also included will be forums with invited speakers such as alumni, admission directors, and extracurricular program coordinators. Junior and senior pre-health profession students only. Pass/fail only.

Prerequisite: Minimum GPA of 3.0 or permission of instructor.

BI 201 - Genetics & Evolution (3)

Genetics and Evolution is a sophomore level course in the core biology curriculum required for all majors administered through the Department of Biology. The focus of this course is on how the mechanisms of genetics and the forces that drive biological evolution allow us to understand how genotype and phenotype variation distinguishes individuals, populations and species from one another. Topics examined will include: gene and genome structure, gene expression, mutation, transmission genetics, population genetics and phylogenetics. Special emphasis is placed on critical thinking, problem-solving interpretation of experimental evidence and understanding science as a process.

A prerequisite to BI 210, BI 212, BI 306, BI 311, BI 312, BI 320, BI 325, BI 335, BI 340, BI 355, and BI 398

Prerequisite: C or better in BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab and BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab; Pre- or Corequisite: BI 203 Genetics & Evolution: Organisms to Populations Laboratory and MA 131 Statistics for Decision-Making or MA 132 Biostatistics or MA 133 Business Statistics.

BI 202 - Ecology & Evolution (3)

Ecology & Evolution is a sophomore level course in the core biology curriculum required for all majors administered through the Department of Biology. Students will discover the unity and interdependence of the living and non-living components of the environment while exploring the limitless diversity of life on earth through the lens of ecological theory.

Topics include population dynamics, species interactions, abundance and diversity, nutrient cycling, succession, and stability.

A prerequisite to BI 240, BI 260, BI 265, and BI 398

Prerequisite: C or better in BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab and BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab; MA 131 Statistics for Decision-Making or MA 132 Biostatistics or MA 133 Business Statistics; Corequisite: BI 204 Ecology: Populations to Ecosystems Laboratory.

BI 203 - Genetics & Evolution Laboratory (1)

Genetics & Evolution Laboratory is the mandatory corequisite for BI 201. The interactive laboratory course will concentrate on multi-week exercises that reinforce essential course concepts. Student-designed experiments, the process of science, and oral and written scientific communication are focal points of the course design.

Corequisite: BI 201 Genetics & Evolution: Organisms to Populations.

BI 204 - Ecology & Evolution Laboratory (1)

Ecology & Evolution Laboratory is the mandatory corequisite for BI 202. The interactive laboratory course will concentrate on multi-week exercises that reinforce essential course concepts. Student-designed experiments, the process of science, and oral and written scientific communication are focal points of the course design.

Corequisite: BI 202 Ecology: Populations to Ecosystems.

BI 205 - Essentials of Neuroscience (3)

This course is an introduction to neuroscience, a discipline in which the biological and psychological sciences are integrated. This broad overview addresses topics ranging from the cellular physiology of neurons to issues of human language, cognition, and mental illness.

A prerequisite to BI 305

Prerequisite: BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab and PS 110 Introduction to Psychology.

BI 206 - Human Anatomy & Physiology I (3)

Lecture on the investigation of the tissues, skeletal, muscular, and nervous systems. This section is for students interested in athletic training, exercise science, physical therapy, occupational therapy, or physician assistant programs. This course does not count as a Biology elective in the major or minor. Three hours of lecture per week.

A prerequisite to BI 207

Prerequisite: BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab; Corequisite: BI 208 Human Anatomy & Physiology I Laboratory.

BI 207 - Human Anatomy & Physiology II (3)

Lecture involves the investigation of endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. This section is for students interested in athletic training, exercise science, physical therapy, occupational therapy, human movement, or physician assistant programs. This course can count as a Biology elective in the major or minor. Three hours of lecture per week.

Prerequisite: BI 206/BI 208 Human Anatomy & Physiology I with Lab; Corequisite: BI 209 Human Anatomy & Physiology II Laboratory.

BI 208 - Human Anatomy & Physiology I Laboratory (1)

Laboratory involves investigation of the tissues, skeletal, muscular, and nervous systems. Three hours of laboratory.

Corequisite: BI 206 Human Anatomy & Physiology I.

BI 209 - Human Anatomy & Physiology II Laboratory (1)

Laboratory involves the investigation of endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Three hours of laboratory.

Corequisite: BI 207 Human Anatomy & Physiology II.

BI 210/211 - Plant Biology (3 cr) with Lab (1 cr) (4)

Three diverse topics in plant biology are introduced: plant evolution and diversity, plant ecology, and the linked topics of ethnobotany and economic botany. Laboratory work concentrates on field methodology, plant identification, and digital data collection. Three hours of lecture and three hours of laboratory per week.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab.

BI 230 - Microbiology (4)

Microbial diversity and the evolution, physiology, genetics, and ecology of microbes are addressed. Specific topics include epidemiology and infectious disease and the use of microorganisms in industry and research. Laboratory work focuses on modern molecular methods of experimental microbiology and bacterial identification, including a semester-long research project. Three hours of lecture and three hours of laboratory per week.

Prerequisite: BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab, BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab, and CH 151/CH 153 General Chemistry I with Lab.

BI 240/241 - Invertebrate Biology (3 cr) with Lab (1 cr) (4)

BI 240 examines the evolution and ecology of invertebrates including phylogenetic relationships, life history, physiology, and morphological adaptations. Laboratory component includes dissections and field trips to Long Island Sound. Three hours of lecture and three hours of laboratory per week.

Prerequisite: C or better in BI 202/BI 204 Ecology: Populations to Ecosystems with Lab.

BI 245/246 - Vertebrate Biology (3 cr) with Lab (1 cr) (4)

BI 245 examines the evolution and ecology of the vertebrates including taxonomy and life history as well as the anatomy and physiology of extant and extinct vertebrates. Three hours of lecture and three hours of laboratory per week.

Prerequisite: C or better in BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab.

BI 247 - Bimini Cetacean Ecology (3.00 Credit(s))

This course is a hands-on learning course examining the behavioral and social ecology of wild dolphins, ecotourism and human impacts on the marine environment.

Distribution: Biology. Offered: Obsolete - Summer Semester Contact Department.

BI 255 - Animal Behavior (4)

An introduction to how animals of all different types use behaviors as strategies for interacting with the environment. Behaviors studied include communication, habitat selection, migration, mate choice, breeding, and parental care. Development and physiological control of behaviors are also examined. Three hours of lecture and one laboratory/field session per week.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and MA 131 Statistics for Decision-Making.

BI 258 - Experiences in Coastal Ecology (3.00 Credit(s))

Ireland is an island with a proud tradition of maritime explorers and innovators that stretches back to St. Brendan the Navigator. This course will explore the importance of the seas surrounding Ireland with respect to history, biodiversity, sustainability, and innovation. The abiotic and biotic processes that influence aquatic communities including coastal streams, rocky intertidal zones, sandy beaches, marshes, harbors, and the open ocean will be examined through field experiences.

Distribution: Biology. Offered: Late Spring Semester All Years.

BI 260 - Marine Biology (4)

BI 260 examines the structure and function of marine habitats at the organismal, population, community, and ecosystem levels. Laboratory includes investigation of different types of estuarine and coastal habitats and design of basic and applied marine ecological investigations. Three hours of lecture and one laboratory session per week.

Prerequisite: C or better in BI 202/BI 204 Ecology: Populations to Ecosystems with Lab; MA 131 Statistics for Decision-Making.

BI 265 - Conservation Biology (4)

The focus of this course is on the science of conservation biology in the context of environmental policy, socioeconomic demands, and environmental ethics.

Prerequisite: BI 202/BI 204 Ecology: Populations to Ecosystems with Lab.

BI 274 - Coastal Management (3)

BI 274 is a lecture and field-oriented course that applies biological, chemical, and physical theory to the understanding and management of coastal ecosystems. The course utilizes empirical data collection with state-of-the-art research instrumentation to understand geospatial relationships between various processes.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 276 - Oceanography (3)

BI 276 is a lecture and field-oriented course that studies in depth the principles of oceanography, emphasizing the chemical and physical processes that affect coastal oceans.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 278 - Coastal Ecology (3)

BI 278 is a lecture and field-oriented course that explores the importance of coastal ecology with respect to history, biodiversity, sustainability, and innovation. Topics focus on the abiotic and biotic processes that influence aquatic communities including coastal streams, rocky intertidal zones, sandy beaches, marshes, harbors, and the open ocean.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab.

BI 299 - Special Topics in Biology (3-4)

Special Topics are new or occasional courses that may or may not become part of the department's permanent offerings. Prerequisites are established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and prerequisites.

BI 303 - GIS For Environmental Science (4.00 Credit(s))

This course focuses on the GIS principles, methods, and techniques that are particularly relevant to and useful for problem solving in environmental analysis and management. Specifically this course has four major components: an overview of selected GIS principles including data models, scale and spatial sampling, and spatial autocorrelation; a review of the major techniques or issues for environmental data acquisition and integration; an introduction to environmental analysis and modeling techniques; and a discussion of several applied areas of environmental modeling techniques as related to coastal ecology, hydrology, natural hazards, natural resources management, and environmental planning.

Distribution: Biology. Prerequisite: Take MA-140.

BI 305 - Behavioral Neurobiology (3)

This course explores the neural basis of behaviors that animals perform in natural settings. The mechanisms studied underlie specialized behaviors such as the detection of prey, attraction of mates, orientation, and other adaptive behaviors. The animal model systems described demonstrate how neural substrates of behavior can be highly specialized to solve problems encountered in an animal's particular environmental niche. These model systems also provide insights into the organization of similar sensory and motor systems in humans. Three hours of lecture.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and BI 205 Essentials of Neuroscience or permission of instructor.

BI 306 - Pharmacology (3)

BI 306 is an introduction to principles of pharmacology and therapeutic uses of drugs with an emphasis on the cellular and molecular foundations of pharmacology. Topics include mechanisms of drug action, dose-response relations, pharmacokinetics, pharmacodynamics, drug-delivery systems, toxicity of pharmacological agents, drug interaction, and substance abuse.

Prerequisite: C or better in BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab; CH 152/CH 154 General Chemistry II with Lab.

BI 311/313 - Cell Biology (3 cr) with Lab (1 cr) (4)

Covers advanced topics in eukaryotic cell biology with emphasis on cell identity, protein transport, and cellular physiology. Laboratory work includes cell culture, immuno-cytochemistry, and other biological analyses. Three hours lecture and three hours of lab per week.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 312/314 - Systems Physiology (3 cr) with Lab (1 cr) (4)

BI 312 focuses on investigation of the physiology of vertebrate systems. Topics include cardiovascular, respiratory, neural, muscular, digestive, endocrine, reproductive, and excretory physiology. Laboratory instruction includes practical investigation and research projects into the physiology of vertebrates.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 315 - Developmental Biology (4.00 Credit(s))

Lecture examines cellular and molecular aspects of animal development from gametogenesis to morphogenesis and pattern formation. Laboratory work includes investigations on fertilization, cellular differentiation, regeneration, and the development of vertebrate organ systems. Three hours of lecture and three hours of laboratory per week.

Distribution: Biology. Prerequisite: Take BI-201 and BI-203 and CH152 and CH-154.

BI 320 - Applied Molecular Genetics (4)

BI 320 focuses on the many real-world applications of molecular genetic technology. Topics explored in a combined lecture/lab include PCR and cloning, molecular analysis of population structure, personal genomics, forensic DNA analysis, and synthetic biology.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 325 - Immunology (3)

BI 325 examines the mammalian immune response including characteristics of antigens, antibodies, and antigen-antibody interactions. Three hours of lecture per week.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab.

BI 335 - Topics in Genetics (3)

This seminar course will both expand and deepen students' knowledge of genetics while exploring a selection of hot topics including but not limited to gene therapy, complex genetic disorders, synthetic genomes, genome wide association studies, metabolomics, pharmacogenomics, epigenetics, conservation genetics, and controversial ethics topics such as gene doping, mitochondrial replacement, genetic privacy, etc. The course emphasizes student facilitation of weekly discussion based on the primary literature, case studies, analytical review papers, and guest lectures when relevant.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab.

BI 340 - Cancer Biology (3)

BI 340 is an introduction to the biology of cancer through a format consisting of lectures, student-led discussions, problem-based learning, and case studies. Concepts to be covered in this course include tumorigenesis, carcinogenesis, types of cancer, cell cycle regulation and apoptosis, growth factors and cell signaling, oncogenes, tumor suppressors, genomic, chromosomal and cell morphology changes in cancer, and the role of the immune system in cancer. Students also will have the opportunity to explore the ethics and human face of cancer throughout the course.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 345 - Neurobiology (4)

Covers cell biology of neurons, electrical and biochemical signaling, motor control, sensation and perception, learning and memory, and brain anatomy. Laboratory instruction includes practical investigations and survey research projects into the above topics and related illnesses.

Prerequisite: BI 112/BI 114 Concepts in Biology II: Cells to Organisms with Lab and CH 152/CH 154 General Chemistry II with Lab.

BI 355 - Molecular Biology (4)

Provides foundations of molecular biology and recombinant DNA technology, analysis of relevant primary journal articles, hands-on training in recombinant DNA techniques, and exposure to the use of computers in DNA sequence analysis and scientific communication.

Prerequisite: C or better in BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab; CH 152/CH 154 General Chemistry II with Lab.

BI 360 - Internship (3-6)

Internships in Biology focus on gaining applied experience through study of a biological topic or an interdisciplinary project that provides majors with an opportunity to gain real-world experience not specifically available in Sacred Heart University's Biology curriculum. Students complete an internship portfolio under the direction of an appropriate professional in consultation with a biology faculty advisor.

BI 378 - Restoration Ecology

Restoration ecology is the practice of renewing and restoring degraded, damaged, or destroyed ecosystems and habitats in the environment using ecological principles. This course will be an overview of this field of ecology with special emphasis on case studies.

Prerequisite: Students must have completed BI 202/204 with a C or better. Corequisite: This course must be taken concurrently with BI 379.

BI 379 - Restoration Ecology Lab

Restoration ecology is the practice of renewing and restoring degraded, damaged, or destroyed ecosystems and habitats in the environment using ecological principles. This course is the laboratory portion of BI378 and must be taken concurrently.

Prerequisite: Students must have completed BI 202/204 with a C or better. Corequisite: This course must be taken concurrently with BI378.

BI 390 - Supervised Research (3)

Individual research projects in the basic areas of Biology under the supervision of faculty.

Prerequisite: A minimum GPA of 3.0 and permission of supervising faculty member.

BI 398 - Senior Seminar Preparation (1)

This course is designed for students to begin working on their Senior Thesis.

Prerequisite: BI 201/BI 203 Genetics & Evolution: Organisms to Populations with Lab and BI 202/BI 204 Ecology: Populations to Ecosystems with Lab.

BI 399 - Senior Seminar (2)

Senior Seminar is the capstone course for the Biology major. The course focuses on review of current research and literature on specialized fields of current interest in biological science. An independent project resulting in a research paper on a current question of scientific, public policy, or ethical focus and a final oral presentation on a selected topic is required.

Prerequisite: Senior standing and permission of advisor.

BU - Management

BU 121 - Introduction to Business (3)

Students in this course will learn the foundations of entrepreneurship and business management. Students will identify business opportunities and work in teams to plan to create a product or service. Business plans, marketing, and financing the business will be covered. Business-focused oral and written communication skills are analyzed and practiced. The final deliverable will be a business pitch to a panel of investors.

BU220 - Excel for Business

This one credit course provides students with the basic Excel knowledge required in most internship or full-time positions in business and prepares students to sit for the Microsoft Excel 77-727 Exam. Key topics

include creating and managing worksheets, formulas and functions, data analysis, pivot tables, charts and tables. Business analysis using Excel is integrated throughout.

Prerequisite: Introduction to Business.

BU 230 - Summer Institute for Global Business Management

DR Kwamie Dunbar

The four week summer SIGBM program provides a practical framework for understanding the key dimensions critical to effective global business management while emphasizing the most pressing current challenges faced by global business leaders. Rising undergraduate juniors/seniors and recent graduates of undergraduate programs are encouraged to enroll. SIGBM participants will gain a fundamental grounding in global business management and will enhance skills essential for success after college. The program includes:

- Business and Financial Analysis
- Strategic planning
- Global financial markets
- Leadership
- Working Effectively in Teams
- Critical Thinking and Decision Making
- Communicating effectively in a business environment

The program integrates current management theory with practical application and includes numerous corporate visits, cultural excursions and discussions with business leaders and faculty. The classroom experience will center on case studies in an active learning environment facilitated by business leaders and faculty with strong credentials in academic research and real world experience in consulting, financial markets, banking and global business management.

The program includes firm visits to case firms to provide context as participants undertake a competitive analysis of a firm that includes assessment of the firm's corporate vision, strategy, business model, leadership development practices and corporate culture. Students who succeed in this program will qualify for a GMAT/GRE waiver if admitted to Sacred Heart University's MBA program in Fairfield, Connecticut, or Luxembourg; or the MS in Finance and Investment Management in Fairfield, Connecticut.

Offered: Summer.

BU 296 - Career Development & Readiness

This is a comprehensive seminar-style course which incorporates elements of professional and leadership development, and life skills that are needed to foster optimal professional and personal growth. The course helps WCOB students organize their academic and internship experiences as well as their trajectory into their careers through self-

assessments, presentations by guest speakers, lectures and workshops. The course also introduces students to the fundamentals of planning and organizing their job search strategies. Emphasis is placed on identification of individual goals, assessment of skillsets, exploration of career options, analysis of the job market, and effective use of employment search tools (resumes, cover letters, interviewing skills, networking and management of career pathways).

- \$name

392 BU-392 - Problem Based Learning Lab (3)

Offered: As Needed Contact Department

BU392 - Problem-Based Learning (PBL) Lab is an experiential learning program designed to expose students to real-world business problems requiring real-time applied solutions. Projects range from consulting, marketing, analysis, research, pricing, economic impact studies, branding and product development. The program is designed to mutually benefit our students and the local business community, by providing high-quality business solutions to some of today's complex business problems.

Consulting assignments will include a top-down and/or bottom-up review of the business /organization and the industry in which it operates. Depending on client need, students may perform an evaluation of the business strategy as well as its strengths, weaknesses, opportunities and threats. They may evaluate marketing strategies and create a marketing plan for the business. Thus, the WCOB PBL consulting assignments vary according to the need of the client and the size of the team.

PBL goals;

-
- Contribute to student education in business, analytics and strategic management.
-
- Create strong interactions between Sacred Heart University and the greater Fairfield County business and financial communities.
-
- Contribute to economic development of the region by launching new businesses and providing business solutions to existing business problems.
-
- Facilitate students development of advanced skills in critical thinking, analysis, research, problem-solving, project management and writing;
-
- Allow students to explore a field in which they may be interested in pursuing a career.

This course will:

-

Connect students to industry professionals and expand their professional network

-
- Give students exposure to the types of work and expectations held by professionals
-
- Provide students with real experience and examples to discuss in interviews
-
- Be one more building block toward the student's career goals
-
- Allow faculty and corporate partners to see the student's skills and abilities
-
- Teach integration of key analytical frameworks

BU 396 - Career Development and Readiness

Dr Kwamie Dunbar

This is a comprehensive seminar-style course which incorporates elements of professional and leadership development, and life skills that are needed to foster optimal professional and personal growth. The course helps WCOB students organize their academic and internship experiences as well as their trajectory into their careers through self-assessments, presentations by guest speakers, lectures and workshops. The course also introduces students to the fundamentals of planning and organizing their job search strategies. Emphasis is placed on identification of individual goals, assessment of skillsets, exploration of career options, analysis of the job market, and effective use of employment search tools (resumes, cover letters, interviewing skills, networking and management of career pathways).

Offered: Spring/Fall/Summer.

BUAN - Business Analytics

BUAN 201 - Introduction to Business Analytics (3)

This course covers the fundamental skills for business analytics: compiling summary statistics, data visualization, descriptive data mining and statistical methods such as hypothesis testing and linear regression. Students gain experience with widely used software tools and learn to report analysis in a presentable format. Topics covered will be useful for further analytical studies in financial analytics, econometrics, marketing analytics, HR analytics, health care analytics and supply chain analytics.

Prerequisite: MA 131 Statistics for Decision-Making; MA 133 Business Statistics; MA 331 Probability & Statistics I.

BUAN 301 - Introduction to Python for Data Analytics (3)

This course is a primer on Python programming language for students with little or no prior programming knowledge. In this course, students will start from the fundamentals of Python programming, including developing environment, language syntax, variable types, data structures, functions and control flow. Along the way, students will work with dedicated libraries for data science, such as Pandas, NumPy, SciPy, Matplotlib, that allow students to develop analytics on data to solve challenging business problems. This course places emphasis on hands-on learning experiences that allow students to experiment with trial and error, and learn from their mistakes.

BUAN 302 - Introduction to Database Management (3)

This is an introductory course on Database concepts and Structured Query Language (SQL) with a focus on business applications. This course provides a step-by-step overview and instructions on a variety of topics, including database and database management system (DBMS), data types, table structure and relationships, field definitions and naming conventions, data access queries using SQL, data definition language (DDL) and data manipulation language (DML) commands; table creation using SQL statements, database security and evolution of data models. No prior database or programming experience is required.

BUAN 402 - Practical Python with Applications in Finance (3)

Python is a very powerful programming language that is widely used in the financial industry. This course will equip students with the programming knowledge and skills in Python to solve practical problems in quantitative finance. Specifically, students will learn how to conduct time-series and cross-sectional analyses with real-world financial data, apply and implement financial models in Python, formulate and code up simple algorithmic trading strategies, and eventually evaluate that strategy's performance and test its robustness. This course includes multiple hands-on coding exercises and projects with a focus on financial applications. Some familiarity with basic statistical and programming (in any language) concepts is necessary.

Prerequisite: BUAN301: Introduction to Python for Data Analytics.

CAS-Arts-Sciences

CAS 103 - Practical Liberal Education (3.00 Credit(s))

This course is designed to be a dynamic introduction to a practical liberal education within the College of Arts and Sciences. This course will challenge students to work in interdisciplinary teams to develop a project proposal that reflects the values of the CAS mission with its emphasis on civic and social responsibility, global engagement, and the common good.

Distribution: College of Arts & Sciences.

CH - Chemistry

CH 101 - Physical Science (2)

This course introduces the culture, language, values, methods, and outcomes of chemistry and physics. Important concepts are presented on a framework of contemporary issues and technology such as the

energy, consumer products, medicinal drugs, nutrition, and biotechnology and will address the ethical and moral issues associated with these. The structure of the course is inquiry based and utilizes cooperative learning as well as integrating pedagogical content knowledge and math with chemistry content.

CH 102 - Physical Science Lab (1)

This course provides hands-on, inquiry-based experiments to supplement the lecture section of the physical world.

CH 105 - Chemistry Imagined (3)

Chemistry, a grail of science and art, encompasses various branches of past and present human creativity. This course explores the expression of beauty and future endeavors and imagination.

CH 117 - General Organic & Biochemistry: An Overview (3)

Designated for Nursing students, this course previews the principles of general chemistry, followed by a survey of organic chemistry. An overview of biochemistry and biomolecules and a study of metabolism and its regulation are presented. Two 75-minute class periods per week.

Prerequisite: High school or precollege chemistry.

CH 119 - General Organic & Biochemistry Lab (1)

Designated for Nursing students, this course consists of eleven to twelve lab periods. Three to four dry labs are embedded within the course as a guided inquiry-based approach to the curriculum and computer problem-solving and molecular modeling using HyperChem. Experiments as well as dry labs are related to the subject matter covered in CH 117. One three-hour lab period per week.

Corequisite: CH 117 General Organic & Biochemistry: An Overview.

CH 120 - Drugs & Their Implications to Society (3)

Different classes of drugs, both legitimate and illicit, and their metabolism in the human body are studied. Basic organic chemistry is introduced. Designed for non-science majors.

CH 130 - The Chemistry of Nutrition (3)

Designed for non-science majors, this course explores the fundamentals of nutrition, elaborating on the essential chemistry needed for a basic understanding of the subject matter. The course examines how carbohydrates, lipids, proteins, minerals, vitamins, and antioxidants are chemically related to nutrition. The course focuses also on nutrition throughout the various life stages and how this relates to one's environment.

CH 140 - Chemistry, Society, & the Environment (3)

Explores the workings of chemistry as an experimental science in the context of the need for science literacy and how it can affect the everyday world and the environment. Two 75-minute lectures per week.

CH 151 - General Chemistry I (3)

Explores modern theories of atomic and molecular structure, chemical bonding and periodic relations, chemical reactions and stoichiometry,

states of matter, and solutions. Three 50-minute lectures and one 50-minute discussion per week.

A prerequisite to BI 230 and CH 152

Prerequisite: High-school chemistry.

CH 152 - General Chemistry II (3)

Explores chemical thermodynamics; chemical kinetics; chemical, ionic, and acid-base equilibria; electrochemistry; chemistry of the representative elements and transition elements; and nuclear reactions. Three 50-minute lectures and one 50-minute discussion per week.

A prerequisite to BI 274, BI 276, BI 306, BI 311, BI 312, BI 320, BI 340, BI 345, and BI 355; CH 221 and CH 331

Prerequisite: D or better in CH 151 General Chemistry I.

CH 153 - General Chemistry Laboratory I (1)

Illustrates basic concepts presented in CH 151. Experiments include qualitative analysis of cations and anions, chromatography, synthesis, and FT-IR. One three-hour laboratory per week.

Corequisite: CH 151 General Chemistry I.

CH 154 - General Chemistry Laboratory II (1)

Illustrates basic concepts presented in CH 152. Experiments include quantitative analysis, equilibria, thermochemistry, spectrophotometry, and GC-MS. One three-hour laboratory per week.

A prerequisite to CH 254 and CH 331

Prerequisite: CH 153 General Chemistry Laboratory I; Corequisite: CH 152 General Chemistry II.

CH 221 - Organic Chemistry I (3)

Covers hydrocarbons; stereochemistry; arenes; alkyl halides; nucleophilic substitution and elimination reactions; and IR, NMR, MS, and UV spectroscopy in relation to structure determination. Two 75-minute lectures and one 50-minute discussion per week.

A prerequisite to CH 222 and CH 252

Prerequisite: CH 152 General Chemistry II.

CH 222 - Organic Chemistry II (3)

Covers aromaticity; electrophilic and nucleophilic aromatic substitution reactions; ethers, epoxides, carboxylic acids, and their functional derivatives; aldehydes; ketones; amines; phenols; carbanion reactions; and alpha-beta unsaturated compounds. Emphasizes organic reaction mechanisms organic synthesis and structure determination. Two 75-minute lectures and one 50-minute discussion per week.

A prerequisite to CH 341 and CH 361

Prerequisite: CH 221 Organic Chemistry I.

CH 223 - Organic Chemistry Laboratory I (1)

Covers basic techniques in organic chemistry: extraction, distillation, recrystallization; thin layer chromatography; gas chromatography; and IR spectroscopy. Emphasizes techniques in organic synthesis. One three-hour laboratory per week.

Corequisite: CH 221 Organic Chemistry I.

CH 224 - Organic Chemistry Laboratory II (1)

Covers simple and multistep organic syntheses using a wide variety of organic reagents and some important functional group analyses. Employs spectroscopy and GC-MS for structure determination. One three-hour laboratory per week.

Prerequisite: CH 223 Organic Chemistry Laboratory I. Corequisite: CH 222 Organic Chemistry II.

CH 251 - Inorganic Chemistry (3)

Basic knowledge of modern inorganic chemistry. Atomic and molecular structure and trends in the periodic table. Acid-base, oxidation-reduction, and chemistry of main groups and transition elements. Photoelectron and vibrational spectroscopy.

Prerequisite: CH 152 General Chemistry II.

CH 252 - Analytical Chemistry (3)

Explores data analysis and classical methods of quantitative analysis. Focuses on the basics of analytical chemistry and the development and application of equilibrium models to all branches of classical analysis. Two 75-minute lectures per week.

A prerequisite to CH 351

Prerequisite: CH 221 Organic Chemistry I.

CH 253 - Inorganic Chemistry Laboratory (1)

A series of experiments as well as unified projects involving synthesis and analysis of a complex or a pair of isomers. Emphasis will be on common analytical and instrumental techniques in the characterization of inorganic compounds.

Prerequisite: CH 154 General Chemistry II Lab.

CH 254 - Analytical Chemistry Laboratory (2)

Provides laboratory experience in volumetric, gravimetric, and instrumental methods. Experiments correlate with lecture material in CH 252 to help students understand the chemistry involved and develop proper analytical procedures and techniques. One six-hour laboratory per week.

Prerequisite: CH 154 General Chemistry Laboratory II; Corequisite: CH 252 Analytical Chemistry.

CH 331 - Physical Chemistry I (3)

Explores thermodynamics, statistical thermodynamics, kinetic theory of gases, changes of state, solutions, and kinetics. Two 75-minute lectures per week.

A prerequisite to CH 332, CH 351, and CH 355

Prerequisite: CH 152 General Chemistry II, CH 154 General Chemistry Laboratory II, MA 151 Calculus I, and PY 152 Principles of Physics II.

CH 332 - Physical Chemistry II (3)

Explores advanced kinetics and quantum mechanics. Two 75-minute lectures per week.

Prerequisite: CH 331 Physical Chemistry I; Co- or MA 253 Calculus III or permission of instructor.

CH 333 - Physical Chemistry Laboratory I (1)

Explores various techniques used to apply the fundamental concepts of physical chemistry to real chemical systems. One three-hour laboratory per week.

A prerequisite to CH 334

Corequisite: CH 331 Physical Chemistry I.

CH 334 - Physical Chemistry Laboratory II (1)

Explores more advanced techniques of physical chemistry and applies theoretical concepts learned in CH 332 to real chemical systems. One three-hour laboratory per week.

Prerequisite: CH 333 Physical Chemistry Laboratory I; Corequisite: CH 332 Physical Chemistry II.

CH 341 - Biochemistry I (3)

Covers chemical and physiological properties of carbohydrates, lipids, amino acids, proteins, enzymes, and nucleic acids. Explores metabolic pathways and enzymology. Two 75-minute lectures per week.

A prerequisite to CH 342

Prerequisite: CH 222 Organic Chemistry II.

CH 342 - Biochemistry II (3)

Continues the study of metabolic pathways. Two 75-minute lectures per week.

Prerequisite: CH 341 Biochemistry I.

CH 343 - Biochemistry Laboratory I (1)

Investigates chemical and physical properties of biologically important compounds using chromatography, electrophoresis, enzyme assays, and various techniques for isolation and identification of biochemicals and enzymes. One three-hour laboratory per week.

Corequisite: CH 341 Biochemistry I.

CH 344 - Biochemistry Laboratory II (1)

Examines isolation and purification of lipids, proteins, enzymes, and nucleic acids from biological materials employing electrophoresis, chromatography, spectrophotometry, and fluorometry. One three-hour laboratory per week.

Corequisite: CH 342 Biochemistry II.

CH 345 - Bioinformatics (3)

This hands-on course provides an introduction to the theory and application of bioinformatics algorithms to solve biological research problems.

CH 347 - Computational Chemistry & Molecular Modeling (3)

This an advanced course in computational chemistry and molecular modeling. the course will cover classical theory and its application to molecular modeling and simulation.

CH 351 - Instrumental Analysis (3)

Explores theory and practice of instrumental methods of analysis, spectrophotometric, and electroanalytical and chromatographic methods of separation and quantification. Two 75-minute lectures per week.

Prerequisite: CH 252 Analytical Chemistry and CH 331 Physical Chemistry I or permission of instructor.

CH 353 - Instrumental Analysis Laboratory (1)

Provides hands-on experience with modern analytical instrumentation, including UV/visible infrared, atomic absorption spectrophotometry, potentiometric and ion selective electrode methods, electrodeposition, gas chromatography, and mass spectrometry. One three-hour laboratory per week.

Corequisite: CH 351 Instrumental Analysis.

CH 355 - Advanced Inorganic Chemistry (4)

Explores physical and chemical properties of the elements and their compounds, periodic relations, theories of atomic and molecular structures, and molecular symmetry with emphasis on coordination chemistry. Two 100-minute lectures per week.

Prerequisite: CH 331 Physical Chemistry I.

CH 356 - Chemical Application of Group Theory (3)

Presents basic principles of group theoretical methods. Topics include molecular symmetry, normal coordinate analysis, molecular bonding and energy levels, and theoretical basis for selection rules.

Prerequisite: CH 331 Physical Chemistry or equivalent.

CH 361 - Environmental Chemistry (3)

Explores chemical aspects of the human environment and sources, reactions, transport, effects and fates of chemical species in water, soil and living environments, and effects of technology thereon. Two 75-minute lectures per week.

A prerequisite to CH 365

Prerequisite: CH 222 Organic Chemistry II.

CH 365 - Environmental Sampling & Analysis (3)

Laboratory and fieldwork including sampling of surface and groundwater using EPA-approved methods for analyzing water, wastewater, soil, and sediments. Also covers QA/QC plans and statistics in chemical analysis and sampling protocols. One 100-minute lecture and one three-hour laboratory per week.

Prerequisite: CH 361 Environmental Chemistry.

CH 390 - Internship (3)

CH 393 - Undergraduate Project (3)

A special project may be carried out under the advisement of a Chemistry faculty member.

Prerequisite: Permission of project advisor.

CH 395 - Undergraduate Research (3)

Research may be carried out under supervision of a Chemistry faculty member.

Prerequisite: Permission of research advisor.

CH 399 - Special Topics in Chemistry (3-6)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Consult the current course schedule for available topics.

CIT - Catholic Studies

CIT 201/202 - The Human Journey Seminars: Great Books in the Catholic Intellectual Tradition (3 CR each)

These two seminars are Sacred Heart University's academic signature common core. They are a direct reflection of the University's Mission. These seminars provide students with an understanding of the roots and development of the Catholic Intellectual Tradition as an interdisciplinary, ongoing 2,000 year conversation between the great writers, thinkers, and artists of the Tradition and the cultures in which they lived, asking fundamental questions about God, humanity, nature, and society. Using seminar pedagogy, these seminars ask students to join in this conversation and relate the texts and ideas of the seminars to students own lives and to the world in which they live.

Prerequisite: For CIT 201: Take FYS 125 First Year Seminar or FYWS 125 First Year Writing Seminar; For CIT 202: Take CIT 201.

CIT 203 - Springsteen, Scorsese & SHU (3)

This course is an interdisciplinary look at how Catholic thought and imagination have intersected with culture from the 1960's to the present time. We will look at texts, films, and art.

CIT 204 - Sinners, Saints & Sacraments (3)

This interdisciplinary course explores the Catholic imagination, particularly its depictions of sin and grace in Catholic literature and the arts.

Prerequisite: Take CIT 201.

CIT 205 - Taking the Journey: Camino de Santiago (3)

This course explores the experience of pilgrimage. Students learn in the classroom then spend ten days in Spain walking the Camino de Santiago.

Prerequisite: Take CIT 201.

CIT 206 - Big Questions in Popular TV & Film (3)

In this course we will examine how life's BIG Questions emerge in different popular films and television.

CIT 207 - Catholic Social Justice (3)

This course examines Catholic Social Justice in the contemporary world.

CIT 208 - GOD on Broadway (3)

This course examines how religious, ethical, and cross-cultural themes emerge in plays and musicals.

CIT 209 - Catholicism, Feminism & Liberation (3)

This course examines how Catholics wrestle with the issues of gender and sexuality as they engage with feminist, LGBTQ, and pro-life-pro-choice movements.

CJ - Criminal Justice

CJ 101 - Introduction to Criminal Justice (3)

Provides an overview of the criminal justice system and its processes.

CJ 205 - Criminal Law (3)

This course covers selected topics in substantive criminal law and include the core elements of many crimes. The principles underlying the definition of crime such as the requirements of actus reus, mens rea and the concurrence of both are examined at length. Principles of justification and excuse are examined in detail.

CJ 206 - Crime & Criminal Behavior (3)

This course uses an interdisciplinary perspective to examine the causes, measurement, patterns, and the effects of socioeconomic status on crime and criminal behavior.

CJ 209 - The American Legal System (3)

Covers the basic structure and principles of the American legal system. The differences between federal and state courts, the civil and criminal judicial processes, the juvenile court process, and an understanding of the constitutional rights applicable to these areas.

CJ 213 - Probation & Parole (3)

Teaches the application of probation, pardon, and parole methods for both juveniles and adults. Analyzes the most effective methods and techniques as they apply to these services.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 216 - Juvenile Justice System (3)

Includes an in-depth examination of the juvenile justice system, its history, and its practices. The course also examines the nature and causes of juvenile delinquency, sociological factors that influence such behavior, typologies of juvenile offenders, and current trends in the control of such behavior.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 220 - Introduction to Corrections & Correctional Law (3)

A general overview of the corrections system including the historical development of control of human behavior in society. Analysis of the major issues confronting corrections.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 222 - Race, Ethnicity, & Crime (3)

The broad purpose of the course is to help students build the analytical and critical skills necessary to gain better insight and understanding of race and ethnicity in relation to crime and the justice system.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 223 - Interviewing & Counseling (3)

Practice-oriented course designed to provide the basic techniques of counseling and interviewing.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 224 - Women & the Criminal Justice System (3)

Explores the changing roles of women in the criminal justice system. The course focuses on women offenders, women victims, and women criminal justice professionals.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 225 - Domestic & Sexual Violence (3)

An examination of domestic and sexual violence including offender accountability, victim advocacy, and the CJ response.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 229 - Restorative Justice (3)

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 230 - Introduction to Law Enforcement (3)

A study of investigative techniques, sources of information, and an analysis of the relationships of investigative units with other law enforcement units and agencies.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 231 - Criminal Investigation (3)

An examination of the investigative techniques used by law enforcement agencies to control and detect crimes.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 232 - Police-Community Relations (3)

Examines various human relations issues that affect policing and police management. Also explores programs established by the police in community relations and community involvement in police policies.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 235 - Law of Evidence (3)

An explanation and analysis of the rules of evidence. Examines court decisions concerning the rights of citizens and the rules for giving testimony and the protecting and safeguarding of evidence.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 239 - Police Administration & Supervision (3)

Examines management principles as they apply to police organizations. This course includes discussion on the organization and management of police personnel at all levels of operation, leadership styles, policy formation, and the internal control of the organization.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 240 - Introduction to Security (3)

Discusses the historical, theoretical, and legal bases of security, including the purpose of security in modern society, ethics and security, standards, and goals for the security industry.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 242 - White-Collar Crime (3)

Examines the parameters and magnitude of white-collar crime and the literature that has been proffered as explanation for it.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 245 - Criminology in Film (3)

This course will examine criminological theory within the content of film and popular culture.

CJ 246 - Organized Crime (3)

Explores how organized crime is structured and how it can be controlled. The impact of organized crime on major crimes is also assessed.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 248 - Introduction to Fraud Investigation (3)

Examines the legal elements of fraud and fraud investigation. This course also explores the methods of preventing, detecting, and deterring fraud in organizations as well as preserving the chain of custody for the court and compiling evidence for court proceedings.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 250 - Crisis Intervention for Public Safety Personnel (3)

Examines the concepts and techniques used by criminal justice practitioners in handling crisis situations. Deals with limited, on-site crisis intervention provided by those first to respond.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 251 - Criminal Courts & Discretion (3)

Examines the criminal courts as the fulcrum of the criminal justice system. Emphasis on the actual mechanics of the system and the decision-making of its functionaries.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 252 - Comparative Criminal Justice Systems (3)

Examines how culture, history, and economics influence legal systems and the treatment of offenders in various countries.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 253 - Criminal Justice Ethics (3)

Examines the fundamentals of ethical theory, controversies, and rules of moral judgment as they relate to criminal justice practitioners.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 256 - Criminalistics (3)

An introduction to forensic science, this course examines the application of forensic science to criminal investigations as well as the techniques of the crime lab through actual and case histories.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 257 - Serial Killers & Profilers (3)

An introductory study of the topic of serial killers and criminal profiling. Analyzes both the individual and collective sociological, psychological, and emotional aspects of serial killers in an effort to determine why they kill.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 270 - Issues & Problems in Criminal Justice (3)

Description and analysis of crucial issues and problems relating to selected structure and processes in the criminal justice system.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 299 - Special Topics in Criminal Justice (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Consult the current course schedule for available topics and prerequisites.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 304 - Catholic Intellectual Tradition & the Criminal Justice System (3)

Exploration of the Catholic Intellectual Tradition. Catholic social teaching and the intersection of contemporary issues and policies of the criminal justice system are examined.

Prerequisite: CJ 101 Introduction to Criminal Justice, CJ 120 Crime & Criminal Behavior, and CJ 201 Criminal Law.

CJ 306 - Victimology (3)

This course examines the victim through history. Course explores the victim movement and the nature and extent of criminal victimization and its effect on American society.

CJ 312 - Mental Health & the Criminal Justice System (3)

Introduction and exploration of the criminal justice system as it deals with an increasing number of clients with mental health issues.

CJ 318 - Policing in a Democratic Society (3)

Through scientific research and theory, students will better understand public policy and the practices that define the effective police organization.

CJ 320 - Correctional Administration & Management (3)

This course will provide a thorough understanding of the correctional organization and the correctional administrative process including the supervision and management of a correctional institution. Topics include the evolution of correctional management, the organizational structure of correctional facilities, the fiscal environment and legal issues for both the staff and the incarcerated. Theories of justice and political influences in corrections will also be examined in this course.

CJ 381 - Research Methods in Criminal Justice (3)

Examines the methods of research and the types of data used to develop an understanding of criminal behavior and to create and change policy in the criminal justice system.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CJ 390 - Internship (1-6)

Supervised placement in a criminal justice agency.

Prerequisite: Permission of department chair.

CJ 391 - Senior Seminar (3)

Description and analysis of crucial issues and problems relating to selected structure and processes in the criminal justice system.

Prerequisite: CJ 101 Introduction to Criminal Justice.

CM - Communication and Media Arts

CM 101 - Introduction to Media Culture (3)

Introduction to media technology, examining the impact of radio, television, newspapers, still photography, film, and the computer on the human condition. Trains the student to be a perceptive consumer of contemporary mass media by exploring how each medium codifies reality. Readings, screenings, and written assignments required.

A prerequisite to CM 201, CM 211, CM 221/CM 321, CM 223/CM 323, CM 224, CM 225, CM 226/CM 326, CM 227, CM 228, CM 253, CM 254, CM 272/CM 372, CM 273, CM 274, CM 277, CM 301, and CM 321

CM 102 - Introduction to Media Production (3)

Introduction to a wide ranging study of multimedia production. Students will learn audio and video production techniques and create media for online distribution.

A prerequisite to CM 272/CM 372

CM 121 - History of Film I (3)

Introduction to the historical development of filmmaking from 1895 to 1945, highlighting the evolution of the film as a means of expression. Films from the past are shown at each class meeting followed by a discussion of several aspects of the film.

CM 122 - History of Film II (3)

This course covers the history of motion pictures from 1945 to 1975, including extensive screening of classic films. Readings, screenings, and written assignments required. May be taken out of sequence.

CM 123 - History of Film III (3)

This course covers the history of motion pictures from 1975 to the present, including extensive screening of classic and contemporary films. Readings, screenings, and written assignments required. May be taken out of sequence.

CM 124 - History of Broadcasting (3)

Explores the history of radio and television broadcasting, including financing of research, technological developments, regulation, structure of genres, the social context and values of programs, legal and political

implications of national and international broadcasting, and the effect on cultural identity and national sovereignty.

CM 125 - History of Journalism (3)

Investigates the social history of American journalism from the penny press to the World Wide Web, including technological developments in news gathering and delivery, regulation and consolidation of the press, social and political implications of coverage, effects of changes in literacy and society, comparisons with other models, and trends toward globalization.

CM 126 - History of Advertising & Public Relations (3)

Provides a critical overview of the history, purpose, and various methods related to advertising and public relations. Students analyze the semantic and syntactic properties of ads and public relations campaigns from the consumer point of view with special emphasis on how they communicate persuasively. Readings, screenings, and written assignments required.

CM 128 - History of Sports Media (3)

This course explores the history of sports media including its relation to the history of sports in general, technological developments, its connections to civil rights history, legal and political implications of national and international sports broadcasting, the relationship between sports media and gender issues, and the effect on cultural identity and national politics.

Prerequisite: CM 101 Introduction of Media Culture.

CM 130 - Media & Cultural Literacy (3.00 Credit(s))

Through guided reflection on our own media and cultural environments and exploration of the media and culture of another country, students will gain a foundation for intercultural competence.

Distribution: Communication.

CM 135 - Irish Cinema (3.00 Credit(s))

Students will explore both cinema created in Ireland and representations of Ireland and the Irish in American film.

Distribution: Communication.

CM 171 - Broadcast News Production I (3)

Prerequisite: CM 101 Introduction to Media Culture.

CM 201 - Art of the Moving Image (3)

A study of the language of moving pictures. Unlike the linear sequence of speech and the written word, moving pictures create a simultaneity of sensory perception. Through an intensive study of experimental and feature films, this course explores the nature of the moving images and how they are organized to create a whole.

Prerequisite: CM 101 Introduction to Media Culture.

CM 211 - News Writing & Reporting I (3)

An introduction to basic news writing and journalistic reporting principles. Concepts of journalism provide a format for an analysis of the news media and the responsibilities of a journalist in today's society. Workshop sessions utilize the concepts in practical work.

A prerequisite to CM 311

Prerequisite: CM 101 Introduction to Media Culture.

CM 212 - Media Literacy (3)

This course expands on CM 101 with extensive examination of theories of media effects on behavior, values, and social/ political structures, with an emphasis on contemporary media and the consequences of the shift to an online digital environment.

Prerequisite: CM 101 Introduction to Media Culture.

CM 215 - Technical Communications I (3)

Introduces the most important elements of communications in the professional world of technology and newer media. Students study common types of reports and learn fundamental techniques for preparing reports, final copy, and webpage content.

CM 221 - Digital Film & Video Production I (3)

An introduction to the basic techniques of cinematic composition and editing. Presents the basic administrative and aesthetic aspects of filmmaking.

Prerequisite: CM 101 Introduction to Media Culture.

CM 222/322 - Television Studio Production I and II (3 CR each)

An introduction to multi-camera studio production.

CM 223 - Digital Photography I (3)

First semester is an introduction to the fundamentals of digital photography. Topics include camera care and handling; visual literacy; composition; and the nature of light, color, portraiture, and experimental photography. Second semester is built around advanced techniques in digital production. Critical discussions on the photography of major artists supplement the practical work. A digital camera with manual operative is required. Students are responsible for processing costs.

Prerequisite: CM 101 Introduction to Media Culture.

CM 224 - Democratic Technologies (3)

Focuses on the creative use of technologies available to the American consumer. Instruction in alternative audio and visual production encourages students to express themselves and distribute media content using available consumer and public access technologies. Laptop computers are required to digitize audio and visual projects and for Internet research.

Prerequisite: CM 101 Introduction to Media Culture.

CM 225 - Multimedia Field Production (3)

An opportunity for outstanding Media Studies majors to assist in the planning and production of media projects contracted by Sacred Heart University or by outside agencies. Offered only when appropriate projects are available. Consult the current course schedule for available topics.

Prerequisite: CM 101 Introduction to Media Culture and CM 102 Introduction to Media Production.

CM 226 - Magazine Production I (3)

Overview of the entire process of magazine publication. Topics include history, theory and status of contemporary publication, concept research and development of new magazines, writing and editing of articles, desktop publishing layout and design, marketing and advertising campaigns, and new technologies and the future. Students conceive and produce individual magazines.

A prerequisite to CM 326

Prerequisite: CM 101 Introduction to Media Culture.

CM 227 - Advertising & PR Writing (3)

Students experiment with form and style in order to produce a variety of advertising and public relations writing for diverse audiences that utilize different media platforms.

Prerequisite: CM 101 Introduction to Media Culture.

CM 228 - Radio Production: Journalism/Podcasting (3)

An introduction to basic radio production. Students prepare for the FCC third-class license, learn the audio control board, and develop concepts of radio broadcasting. Because WSHU is integrated into the courses as a laboratory and program outlet, students are required to function as staff members.

Prerequisite: CM 101 Introduction to Media Culture.

CM 229 - Photojournalism (3)

Students develop skills and insights necessary to document strong visual images and use those images to create a photo essay. Course encompasses preparation, research, taking photographs and editing, as well as examining the changing digital world, magazine work and publishing, and the business of photography.

CM 230 - Digital Publications (3)

As media scholars and professionals it is important to understand the theoretical and practical processes of technology in our field. This course is designed to explore the fundamentals of graphic design for media publications. In the first portion of the class students will explore the foundations of visual culture and literacy as well as the key elements of the design process for public relations and advertising. In the second portion of the class, students will be introduced to the techniques of creating a variety of visual materials using Adobe InDesign software. Although students will spend time using the InDesign software, the primary emphasis is on design for public relations and advertising. Throughout the entire semester students will be expected to create their own original project portfolio pieces. Thus this class is a combination of lecture and lab.

CM 231 - Introduction to International Field Production (3)

This introductory class will examine the relationship between filmmaker and location. By working with narrative and non-narrative film styles, students will gain exposure and understanding to producing creative content in a foreign country. Using the student's emotional experience and study abroad locales, students will create creative pieces that will serve the artistic vision, their fundamental understanding of film production and the logistical elements of field production.

Distribution: Communication.

CM 235 - Acting for the Camera (3)

CM 241 - Comics & Animation (3)

A fast-paced survey of the history and theory behind comics, comic books, and animation. Creative projects teach the methods of creating sequential art and animation from paper to CGI.

CM 251 - Studies in Self-Help Books (3)

In this course, students will analyze a self-help book of their choice through journal writing exercises outlined in their chosen text. Drawing on research in the field, students will evaluate the effectiveness of their chosen text.

CM 252 - Sport, Communication & Culture (3)

Sporting culture impacts the American public through economic and ideological institutions that structure our perceptions of the world. In contemporary society, sport is both big business and personal recreation, and yet despite its influence on American culture, sport remains a relatively unexplored segment of popular culture. In this class we will pay particular attention to the images and narratives of sporting media that construct representations of class, masculinity, gender, and nation in and around everyday mass-mediated athletic activities. Sport, Culture, & the Media is an examination of sports and media in our everyday lives.

CM 253 - Digital Culture (3)

Considers digital and technologically mediated environments as "mass media" in the tradition of film radio or television. Using a variety of approaches including historical sociological economic technological cultural and aesthetic the course looks at questions such as how does the Internet codify reality? How are communities both created and thwarted? What are the characteristics of the global media culture? Readings screenings and written assignments required.

Prerequisite: CM 101 Introduction to Media Culture.

CM 254 - Media & Democracy (3)

Examines the relationships between the mass media (film, television, newspapers, and the Internet), the public, and politics. Historical case studies analyze from ethical, economic, social, historical, aesthetic, and technological perspectives how the media provide (or do not provide) a place through which people express their views as citizens in a democracy. Current media examples are also investigated. Readings, screenings, and written assignments required.

Prerequisite: CM 101 Introduction to Media Culture.

CM 255 - History of Documentary Still Photography (3)

The history of documentary still photography from its beginning in the 1840s through the present is studied. Focus is on analyzing the photographs, as well as the social and historical contexts in which they were made, to come to some conclusions about the nature of documentary photography. Students with photographic experience and equipment may, with the permission of the instructor, choose to do a documentary photography project instead of a final paper.

CM 256 - Magazines & Body Image (3)

This class will explore body image representations portrayed in popular American magazines from a media literacy perspective. Drawing on research about media influence and instructional capabilities from such researchers as Schramm, Bandura, Comstock, and Liebert.

CM 257 - Women & Advertising (3)

Exploration and in-depth analysis of women's images portrayed in American advertising from a media literacy perspective, using research about the influence of advertising on women's roles and attitudes.

CM 258 - Social Media Strategy (3)

Social media has altered how we communicate with each other. This course is comprised of four modules that will allow students to have an overall understanding of social media in our everyday lives. In the first module, students will explore how social media has impacted culture as a whole, while in the second module, students will interrogate the role of social media in the construction of personal and professional identity. In the third module, students will analyze corporate and non-profit uses of social media tools and tactics, and in the fourth and final module, students will execute their own social media campaign in order to demonstrate their knowledge of the course concepts. Throughout the course students will be asked to consider the ethical dilemmas put forth by social media technologies and the people that use them.

Prerequisite: CM 101 Introduction to Media Culture.

CM 271 - TV News Production I (3)

Students develop, plan, write, edit, and produce news story projects on a regular basis and contribute to the creation of The Pulse, a news magazine show, broadcast over television and the Internet at Sacred Heart.

CM 272/372 - Sports Broadcasting I and II (3 CR each)

Focuses on the fundamentals needed to implement a program in sports information, publicity, and promotions. Preparing of news releases; writing local and hometown features; publishing programs and brochures; compiling statistical breakdowns; dealing with the local, regional, and national press; and promoting specific events, teams, and individuals are included.

Prerequisite: C or better in ENG 110 Academic Writing; CM 101 Introduction to Media Culture and CM 102 Introduction to Media Production.

CM 273 - Television & New Media Journalism (3)

A production course designed to introduce students to the techniques of electronic journalism. Students also learn to analyze and constructively criticize the process and product.

Prerequisite: CM 101 Introduction to Media Culture.

CM 274 - Contemporary Sports Broadcasting (3)

Provides students with foundational skills in sports journalism for live broadcasts and recorded programs and segments. Students learn multiple roles both in front of and behind the screen. Classroom activities include applied learning methods that require students to actively acquire the real-time skills necessary to work in a sports media setting and to pursue a career in multimedia sports journalism. Students develop and apply written, oral, and problem-solving skills to create, host, and produce original sports programming.

Prerequisite: CM 101 Introduction to Media Culture.

CM 275 - DVD Authoring (3)

An introduction to DVD multimedia production techniques. Focus is on mastering the technical elements of advanced digital video editing and DVD authoring technology and developing a familiarity with the grammar of multimedia more generally. Students develop and produce a variety of projects culminating in their own DVD portfolio.

Prerequisite: Any other CM production course or permission of instructor.

CM 276 - Digital Editing (3)

Designed to provide training with tools necessary for editing digital audio and video. Course examines the construction of stories and messages in the digital media that surrounds us. Students will become more effective creators and consumers of media culture.

CM 277 - Screenwriting (3)

An introduction to writing for fiction and nonfiction film and television. Topics include basic dramatic theory, narrative structure, characterization, dialogue, adaptation, and the unique demands of the audio/visual media, as well as pragmatic matters of format and the marketplace.

Prerequisite: ENG 110 Academic Writing and CM 101 Introduction to Media Culture.

CM 278 - Broadcast News Reporting (3)

Designed for advanced students already familiar with the tools of the digital journalist, students will create and produce a professional-level documentary video about a community outreach program making a difference in other people's lives.

Prerequisite: CM 101 Introduction to Media Culture.

CM 280 - Immersive Media Production (3)

Prerequisite: CM 101 Introduction to Media Culture.

CM 299 - Special Topics in Communication & Media Studies (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on timely topics, a faculty member's particular interest, an experimental alternative to existing courses, etc. Course title is shown on the student's transcript. Consult the current course schedule for available topics and required prerequisites.

CM 300 - Special Topics in Multimedia Production (3)

New or occasional courses in advanced video production such as approaches to editing, audio recording techniques, digital storytelling, or computer-aided design. Course title is shown on the student's transcript. Consult the current course schedule for available topics and required prerequisites.

CM 301 - Advanced Seminar in Communication (3)

An interdisciplinary study of contemporary theories of mass communications. Presents an overview of the impact of mass communication by considering them as codes, symbolic systems, and manipulative powers on both the conscious and subconscious levels. Reading, writing, discussion, and research are required.

Prerequisite: CM 101 Introduction to Media Culture and senior standing.

CM 311 - News Writing & Reporting II (3)

This advanced workshop simulates a newspaper magazine publishing atmosphere. Students are assigned roles as writers or editors for individual sections to create a student news magazine as part of the newspaper staff.

Prerequisite: CM 211 News Writing & Reporting I.

CM 312 - Freelance Writing (3)

Prerequisite: CM 211 News Writing & Reporting I.

CM 321 - Advanced Topics in Film & TV Production (3)

Advanced course in single-camera video production. Each student directs an original fiction or nonfiction work and provides technical support on classmates' projects.

Prerequisite: CM 101 Introduction to Media Culture.

CM 325 - Visual FX & Motion Graphics (3)

Students will learn cutting-edge techniques in graphic programs and develop and complete several creative projects guided by an instructor who is an industry professional.

Prerequisite: CM 101 Introduction to Media Culture.

CM 326 - Magazine Production II (3)

Overview of the entire process of magazine publication. Topics include history, theory, and status of contemporary publication; concept research and development of new magazines; writing and editing of articles; desktop publishing layout and design; marketing and advertising campaigns; and new technologies and the future.

Prerequisite: CM 226 Magazine Production I.

CM 331 - Topics in Journalism Production (3)

Advanced topics in journalism production.

Prerequisite: CM 101 Introduction to Media Culture.

CM 351 - Women in Film & Television (3)

Films are cultural artifacts. Each film contains within itself a complex social system reflecting the attitudes, values, and morals of the society that produced it. This course uncovers the values that encode the function of women on screen including the images they project, roles they assume, values they encode, and relationships they establish with men, children, and each other. Readings, screenings, and written assignments required.

Prerequisite: CM 101 Introduction to Media Culture.

CM 352 - Documentary Film/Television (3)

Examines major epistemological, aesthetic, and political concerns of documentary film and video. This course introduces students to a variety of documentary principles, methods, and styles in order to explore a series of theoretical issues that are important to documentary production, representation, and reception. Readings, screenings, and written assignments required.

Prerequisite: CM 101 Introduction to Media Culture.

CM 353 - National Cinemas (3)

Examines a particular national cinema or moment in national cinemas (e.g., New German Cinema, French New Wave, Italian Neorealism) whose contributions to the history of cinema have been significant. Attention is given to the social and cultural context, production, distribution, and reception circumstances and stylistic innovations of the different filmmaking practices. Readings, screenings, and written assignments required.

Prerequisite: CM 101 Introduction to Media Culture.

CM 354 - Film & Television Genres (3)

A study of individual television and forms. Emphasis on the historical development of the genre, themes, and stylistics of genre; meaning of programming within a cultural context; contemporary cultural significance; and contribution to the history of ideas. Readings, screenings, and written assignments are required.

CM 355 - Film & Television Directors (3)

Examines individual film directors whose contributions to the history of the cinema have been especially notable. Film and television directors are studied for their stylistic and philosophical innovations as well as for their historical place in the medium. Each semester a particular director or directors are chosen for study.

Prerequisite: CM 101 Introduction to Media Culture.

CM 356 - Advertising & PR Campaigns (3)

Students research, plan, implement, and evaluate integrated public relations and advertising campaigns. Students gain hands-on experience by working with community clients.

Prerequisite: CM 101 Introduction to Media Culture.

CM 371 - TV News Magazine II (3)

Prerequisite: C 271 TV News Magazine Production I.

CM 396 - Internship (1-6)

An opportunity for qualified upper-division Media Studies majors to gain practical experience at area media/communications companies such as radio or television stations, cable companies, newspapers, magazines, and public relations firms.

Prerequisite: Permission of instructor and department chair.

CM 397/398 - Senior Project I and II (3 CR each)

The purpose of the project is threefold: to create an opportunity for a senior Media Studies student to apply creative theory to practice; to stress the interdisciplinary aspects of media communication; and to provide the student with a portfolio" product or research project to use as a demonstration of his or her abilities."

Prerequisite: CM 101 Introduction to Media Culture and senior standing.

CM 399 - Independent Study (1-3)

Work on a special topic or production to be arranged with an instructor who will direct the work. Permission is granted to qualified Media Studies majors on the basis of a written prospectus from the department chair for Communication Studies.

Prerequisite: CM 101 Introduction to Media Culture.

CMD - Communication Disorders

CMD 200 - Introduction to Communication Disorders (3)

CMD 200 INTRO TO COMMUNICATION DISORDERS 3.0 Credit(s)

This course provides a general introduction to normal and disordered speech, language, swallowing and hearing in children and adults. This course considers normal development of communication behavior, the nature of communication disorders, and reviews the various conditions associated with communication disorders. Ethical standards for the practice of Speech-Language Pathology, contemporary professional issues, and information regarding certification, specialty recognition, licensure and professional credentials in Speech-Language Pathology will be presented. 3 credits; lecture format.

Corequisite: Take CMD-201

Offered: Fall & Spring Semesters All Years

Corequisite: CMD 201.

CMD 201 - Introduction to Communication Disorders Lab (1)**CMD 201 INTRO TO COMMUNICATION DISORDER LAB 1.0 Credit(s)**

This course is a co-requisite for CMD 200 "Introduction to Communication Disorder." The purpose of the course is to provide students with guided opportunities to observe speech, language and hearing practice. Specifically, through guided observations, students will learn how knowledge acquired in the 3-credit course can be applied to clinical practice. The CMD 200 and CMD 201 will be taken by students enrolled in the Communication Disorders major during the first year of undergraduate study.

Corequisite: Take CMD-200

Offered: Spring Semester All Years

Corequisite: CMD 201.

CMD 210 - Phonetics (3)**CMD 210 PHONETICS 3.0 Credit(s)**

Students will be introduced to the acoustic and articulatory properties of the sound systems of human languages. The International Phonetic Alphabet will be presented, and students will learn to record speech in broad phonemic transcription. Variations among regional and cultural US dialects, as well as notation and practice of narrow phonetic transcription will be introduced. The implications of cultural and linguistic differences on speech production will be discussed.

Offered: Fall & Summer Semesters All Years

CMD 215 - Leadership in Healthcare (1)**CMD 215 LEADERSHIP IN HEALTHCARE 1.0 Credit(s)**

This interdisciplinary course is an examination of contemporary leadership styles for healthcare professionals.

Prerequisite: Take CMD 200 and CMD 201

Offered: Fall & Spring Semesters All Years

Prerequisite: CMD 200, CMD 201.

CMD 300 - Anatomy & Physiology of Speech & Swallowing (3)**CMD 300 ANATOMY & PHYSIOLOGY OF SPEECH & SWALLOWING 3.0 Credit(s)**

Students will become familiar with the anatomical and physiological bases of human communication and swallowing, including the support structures of the respiratory, articulatory phonatory, and swallowing systems, and the identification and function of muscles in these systems. 3 credits; lab/lecture format.

Offered: Fall & Summer Semesters All Years

CMD 310 - Introduction to Audiology (3)**CMD 310 INTRO TO AUDIOLOGY&HEAR. SCI. 3.0 Credit(s)**

This course presents an introduction to the psychophysics of sound, and practice of audiology. It covers the anatomy, physiology and common pathologies of the auditory system, impact of hearing loss, types and characteristics of hearing loss, conventional procedures used to assess hearing, interpretation of audiological test findings, and criteria for initiating audiological referrals. Issues of ethics, professional practice, licensing, and credentials for audiology practice will be reviewed. 3 credits; lab/lecture format.

Prerequisite: Take 1 Biology course

Offered: Fall & Spring Semesters All Years

Prerequisite: Take 1 Biology Course.

CMD 315 - Hearing Science (3)**CMD 315 HEARING SCIENCE 3.0 Credit(s)**

This course will discuss the complex process of hearing from basic acoustic principles to the anatomy and physiology of the peripheral and central auditory system.

Offered: Fall Semester All Years

CMD 320 - Speech Science (3)**CMD 320 SPEECH SCIENCE 3.0 Credit(s)**

This course presents an introduction to the physics and psychology of human speech production and perception. It covers basic acoustics, the glottal sound source, resonance and acoustics of the vocal tracts, acoustic features of vowels, consonants, and suprasegmentals of speech, as well as the physics and biomechanics of phonation, articulation, and resonance and the instruments, applications, and programs used to assess speech production. Principles and models of speech perception, with special emphasis on categorical perception, will also be discussed.

Prerequisite: Take CMD-210 and CMD-300

Offered: Fall & Spring Semesters All Years

CMD 330 - Development of Language (3)**CMD 330 DEVELOPMENT OF LANGUAGE 3.0 Credit(s)**

This course will introduce students to the social, biological, perceptual, and cognitive bases of language. A range of theories of language acquisition will be presented and the impact of nature and nurture on children's development will be discussed. The typical sequence of language acquisition in the areas of phonology, semantics, syntax and pragmatics will be presented. The relations between oral language development and the acquisition of literacy will be emphasized. Dialectal variations in language development and second language learning will be highlighted. 3 credits; lecture/discussion format.

Prerequisite: Take PS-252

Offered: Fall & Spring Semesters All Years

Prerequisite: PS 252.

CMD 335 - Cultural and Structural Linguistics (3)

CMD 335 CULTURAL AND STRUCTURAL LINGUISTICS 3.0 Credit(s)

This course provides an overview of the field of Linguistics from a structural and cultural perspective. Students will examine phonology, morphology, syntax, semantics, and discourse, considering acquisition, production, and comprehension in these areas. We will also explore connections between language, culture, and identity from an Applied Linguistics perspective.

Offered: Only in the Fall

CMD 340 - Neurological Bases of Communication & Swallowing (3)

CMD 340 Neurological Bases of Communication & Swallowing 3.0 Credit(s)

This course describes the development and anatomy and physiology of the neurological system that underlies communication and swallowing and is a prerequisite for further study in medical speech, language and swallowing disorders. 3 credits; lab/lecture format.

Prerequisite: Take CMD-300

Offered: Spring & Summer Semesters All Years

Prerequisite: CMD 300.

CMD 350 - Introduction to Clinical Methods & Observation (3)

CMD 350 INTRODUCTION TO CLINICAL METHODS.& OBSERVATION 3.0 Credit(s)

This course will orient students to clinical practicum, including the scope of assessment and intervention across the life span. It will include an overview of goal writing, lesson planning, writing SOAP notes, report writing, progress monitoring, and ethical conduct. Legislative, regulatory, and reimbursement issues that affect the practice of Speech-Language Pathology in educational and medical settings will be presented. As part of this course, students will complete 25 hours of intensive observations in various educational and medical settings.

Prerequisite: Take CMD-200

Corequisite: CMD-351

Offered: Spring & Summer Semesters All Years

Prerequisite: CMD 200. Corequisite: CMD 351.

CMD 351 - Introduction to Clinical Methods & Observation Lab (1)

CMD 351 INTRODUCTION TO CLINICAL METHODS & OBSERVATION LAB 1.0 Credit(s)

This course will permit students to apply knowledge acquired in the co-requisite course, Introduction to Clinical Methods and Observations, to guided observations of clinical practice.

Corequisite: Take CMD-350

Offered: As Needed Contact Department

Prerequisite: CMD 350.

CMD 399 - CMD Comparision In US/Ireland

CMD 399 CMD COMPARISON IN US /IRELAND 3.0 Credit(s)

Students will compare and contrast the roles of Speech Language Pathologists (SLPs) and Audiologists (AuDs) in the United States and Ireland; more specifically students will differentiate between: Scope of practice, licensure, professional organizations and affiliations, healthcare systems and regulations, educational systems and regulations, Deaf culture and Sign Language, prevention, assessment and treatment protocols.

Prerequisite: Take CMD-200 CMD-201

Offered: Summer Semester All Years

Prerequisite: CMD 200, CMD 201.

CN - Chinese

CN 101/102 - Beginning Chinese I and II (3 CR each)

Intended for beginning-level students. Emphasizes the fundamentals of Chinese. Includes basic grammar, development of comprehension, and expression. Introduction to Chinese characters. Incorporates appreciation of Chinese culture.

CS - Computer Science and Information Technology

CS 100 - Introduction to Information Technology (3)

An introduction to computing and data processing for non-computer science majors. This course is half theory and half hands-on application using Microsoft Office. It includes word processing, spreadsheets, databases, presentation software, and using the Internet as a research tool effectively. This course provides the knowledge and understanding necessary to communicate effectively in the personal computing environment of business today. Non-majors only.

CS 101 - Web Design and Visual Tools for non-majors (3)

This course aids in the understanding of the design and production of websites. It presents what design elements go into webpage development. Students browse sites and identify good design elements. They construct their own webpage early on and allow it to evolve throughout the semester.

Prerequisite: CS 100 Introduction to Information Technology or Permission of Department .

CS 104 - Digital Animation and Gaming for non-majors (3)

This course is for students who want to make a game but have no coding experience. Using the Unity platform, you will learn how to design and build an engaging game experience. Working in teams, students write a game design document. They use that document as a guide as they create a video game that can be distributed over the Internet. Player testing is also a critical component of this course.

CS 106 - Introduction to Information Technology for Business Administration (3)

An introduction to computing and data processing for non-Computer Science majors. This course is half theory and half hands-on application using Microsoft Office. It includes spreadsheets, databases, and presentation software and provides the knowledge and understanding necessary to function effectively in today's personal computing environment.

CS 110 - Introduction to Computer Science (3)

An introduction to programming logic using a suitable introductory programming language. This course presents an overview of major programming concepts (selection, loops, input-output operations, procedures, and functions) and serves as an introduction to the Unix operating system and Unix-based editors. For Computer Science majors with no previous programming experience.

Prerequisite: Computer Science major or Permission of Department .

CS 111 - Introduction to Structured Programming (3)

A first course in programming using a structured programming language. Topics include iteration, selection, procedures, functions, and arrays with the use of flowcharts and modules. Presents applications in both business and scientific areas.

Prerequisite: CS 110 or Permission of Department.

CS 112 - Data Structures (3)

A continuation of CS 111 using a structured programming language to implement multidimensional arrays, stacks, queues, linked lists, and binary trees. Also introduces recursion, pointers, and classes.

Prerequisite: CS 111 Introduction to Structured Programming.

CS 113 - Discrete Structures (3)

Presents mathematical concepts for computer science including propositional logic, sets; relations and functions (including big-Oh notation); counting; countability; permutations and combinations; probability; Boolean algebras.

CS 121 - Introduction to Programming Using Python

This course introduces and illustrates the powerful features of the Python language and its available packages and technology for highly motivated students with little experience in programming. Topics include strings and console output, conditionals and control flows, functions, lists, loops, and file I/O. By the end of the course, students will be familiar with Python syntax and put into practice all the learned concepts in a final project.

CS 125 - Computer Science Exploration

This course is the second course in the sequence of exploration courses for computer science students. This course offers in-depth introduction in Computer Science.

CS 171 - Introduction to Computer Gaming (3)

An introduction to the theoretical and practical elements for creating and producing a video game. In this course the student becomes familiar with the Unity 2D platform, using the C# language. Special attention is paid to utilizing primitives for efficient prototyping, creating gameplay events, player feedback, and creating the game design document.

Prerequisite: Or Corequisite: CS 111 Introduction to Structured Programming.

CS CS 211 - Computer Networks

Students study networks and data communication concentrating on the Internet model. This is a laboratory-based course that includes projects implemented on both Unix and Windows machines. Topics such as the Internet protocol stack, hardware, routing, circuit-switching and packet-switching networks, multiplexing, error handling and Wi-Fi are among those studied. Students use packet sniffing tools to design and simulate networks.

CS 212 - Web Development in UNIX

This course aims to teach fundamentals of software development with a focus on server-side programming. Open-source, web-based development environments (particularly LAMP stack) will be introduced and utilized, with a focus on cybersecurity on a LAMP stack, with hands-on active learning assignments, as well as a research project about recent secure implementation standards in open-source development frameworks.

CS 215 - Computer Systems Organization with Assembler (3)

This course presents an overview of computer architecture and computer organization as they relate to computer science. Topics include computer components, interconnection structures, internal memory, instruction sets, number representation in computers, parallel processing, and an elementary introduction to assembly programming.

Prerequisite: CS 112 Data Structures.

CS 232 - Human-Computer Interaction (3)

Human-computer interaction (HCI) is the intersection of human actions and computer technology. Through two substantial team projects, students learn HCI principles of effective interface design. In addition to

basic computer sciences skills, students use communication theory, psychology and art principles in their design projects. Special emphasis is given to typography, pixel-based design, human interface reaction experiments, color, element grouping, and feedback theory. This is a blended course. In the online section students conduct discussions and study peer-reviewed research. The blended goal is to discover and evaluate research-based solutions to HCI problems.

CS 233 - Visual Basic (3)

Explores the use of controls and tools, forms, menus, frames, file browsers and buttons, creating windows interfaces for databases, linking to Windows and Excel, and writing and debugging Visual Basic code. Uses VB.net 2010.

Prerequisite: CS 112 Data Structures.

CS 236 - Advanced Scripting Concepts

This course illustrates the powerful features of the Python language and its available packages and technology. Topics covered include writing scripts to access parts of the computer system, writing programs that use some of the standard libraries that Python supports, understanding how Python works on the web and connecting a web application to a database. The students build multi-layered functionality including networks, data and security.

Prerequisite: CS 233 Visual Basic OR CS 272 OOP With C# and Games.

CS 241 - Advanced Programming Concepts Using "C" (3)

Covers advanced programming techniques in "C" using pointers data structures and recursion. Emphasis on algorithmic approach and use of mathematical functions.

Prerequisite: CS 112 Data Structures.

CS 261 - Web Design (3)

An introduction to web-enabling technologies, this course addresses web design with HTML code, Cascading Style Sheets and layers, Photoshop, and JavaScript. Problems and trends faced by webmasters today are also discussed.

Prerequisite: CS 111 Introduction to Structured Programming and sophomore status.

CS CS 262 - Programming Paradigms

Covers major paradigms in computing programming, including imperative, functional, logic, and object-oriented. Compares and contrasts different paradigms as appropriate and provides students an overview of different programming techniques.

CS 271 - Game Development (3)

An object-oriented approach to programming digital objects. An introduction to the theoretical and practical elements for creating and producing a video game. In this course the student becomes familiar with the Unity 3D platform using the C# language. Special attention is

paid to utilizing primitives for efficient prototyping, creating gameplay events, player feedback, and creating the game design document.

Prerequisite: CS 171 Introduction to Computer Gaming; Pre- or Corequisite: CS 112 Data Structures.

CS 272 - OOP with C# and Games (3)

An object-oriented approach to computer program design and programming using C#. Topics covered will include classes, objects, inheritance, instantiation, event listeners and handlers, polymorphism, encapsulation, functions and methods, exceptions, Microsoft Windows Forms, and basic game logic.

Prerequisite: CS 271 Game Development; Corequisite or CS 112 Data Structures.

CS 273 - 3D Object Creation (3)

Video game development involves many different team members. Two of the most essential skills are programming and 3D character development. This course addresses the latter. Using Autodesk Maya students will learn the fundamentals to develop 3D static objects and biped characters for animation. These 3D creations export to the Unity platform using the fbx format. Each student will also have the opportunity to utilize the Motion Capture Laboratory. In this lab students track human movement for modeling character animation. The eighteen-camera motion-capture system converts to code that can be exported to a development platform.

CS 299 - Special Topics I (3)

Various courses of current interest to the Computer Science major are introduced from time to time.

Prerequisite: Sophomore status.

CS 311 - Database Design (3)

Explores fundamentals of database design theory and applications. Includes data models with emphasis on the relational model.

Prerequisite: CS 112 Data Structures and CS 215 Computer Systems Organization with Assembler.

CS CS 321 - Research Methods Seminar

Students learn research methods and approaches for conducting scientific research. Students develop competencies using quantitative and qualitative methods, and focus on critical analysis of research reports, and how to write research proposals and papers.

Prerequisite: Junior Standing.

CS CS 342 - Enterprise System Management

Students explore systems and activities within an enterprise that brings together processes, people, and technology; and will configure and maintain prototype enterprise systems. This course is suitable for students who want to pursue careers as technical managers, with hands-on knowledge on implementing technology-based information systems solutions.

CS 312 - Software Engineering (3)

This course studies software as a product and a process. Students learn how to analyze requirements and design software solutions using classical and object-oriented software development methodology that draw from current life-cycle models. This is a project-based design course where teams develop software projects from requirements analysis through detailed design, testing and prototype development. Umbrella activities such as configuration management, quality assurance, documentation development, ethics and costing are covered. Automated software design tools are used and oral and written presentations required.

Prerequisite: CS 311 Database Design.

CS 313 - Discrete Systems (3)

Presents important mathematical concepts and computational models, including elements of number theory, modular arithmetic, cryptography, finite automata, regular expressions, formal grammars, Turing machines.

Prerequisite: CS 112 Data Structures, CS 113 Discrete Structures.

CS 318 - Project Course (3)

This senior project course is offered in the fall of senior year. Students work with a faculty member in the department and a mentor to define and implement either a team or individual project. Students are required to assess requirements, design and develop the software and write detailed documentation that illustrates and supports design choices. Test plans, usability testing and prototypes are also required. Students present their complete, working projects to the department faculty and public as the culmination of this project.

Prerequisite: Senior status and Permission from Department.

CS 319 - Computer Ethics (3)

This course focuses on the ethical and social and legal issues associated with computer technology and its context in society. It is a writing seminar that focuses on ethical issues such as privacy, hacking, intellectual property, accountability, identity, whistleblowing, virtual communities, social networking, codes of ethics and professional responsibility. Students use philosophers such as Aristotle, Kant and Mill, to support their positions through papers, ethical debate and dialogue. This course is a senior level capstone course. It emphasizes both oral and written communication as students discuss and examine their own ethical beliefs in relation to society and technology.

Prerequisite: Junior/senior standing or permission of instructor.

CS 320 - Research and Implementation (3)

This course is for seniors who have started their Senior Projects in CS-318. During the course, students will work with mentors to refine their research, implement their project (coding, testing, usability testing) and will present the project to the Faculty in the Spring. This is the final course taken to finish CS-318 projects.

Prerequisite: Senior status; final course taken to finish CS-318 Project Course.

CS 331 - Design of Multimedia Applications (3)

An introductory web animation course. Students will produce interactive multimedia for the web and beyond. The course will cover the interface and tools used to develop animations such as shape and motion tweening, motion guide path, masking, development of scenes, movie clips and button symbols. Students will create a variety of animated content such as animated cartoons, advertisements, games, and other interactive content to publish on platforms such as HTML5 Canvas, Flash Player & Air, WebGL, or custom platforms such as Snap SVG.

Prerequisite: CS 112 Data Structures.

CS 332 - Cloud Computing (3)

This course presents a number of cloud computing tools and technologies, including virtualization, web services, data analysis, and integration. Upon completing this course, students will have theoretical knowledge of contemporary cloud computing tools, and practical experience in administering/maintaining them. Students are expected to have administrative access to a computer, to (i) install relevant cloud-based tools, and (ii) gain practical skills.

Prerequisite: CS 112 Data Structures.

CS 333 - Theory of Computer Gaming (3)

From arcade games through today's AAA franchises this course examines the theoretical background of computer game development. By looking at both writings and actual games we address topics like fun; conflict, catch-up strategy, gameplay, emotion, surprise, endogenous value, level design, feedback, surprise, problem statements, flow, rules and randomization. Throughout the course each student works to complete a game document that leads to a game prototype. This prototype is utilized in player testing to see what happens when a game idea becomes reality to players.

Prerequisite: CS 271 Game Development.

CS 338 - Systems Analysis and Design (3)

An advanced design course that studies the application of computer solutions to business problems using object oriented analysis and design methodology and cost benefit analyses. This is a project-based course where teams assess requirements, set milestones and present object-oriented analysis and design of their solutions. Oral and written presentations are required and automated software tools are used.

Prerequisite: CS 312 Software Engineering.

CS 339 - Networking and Data Communication (3)

Students study networks and data communication concentrating on the Internet model. This is a laboratory-based course that includes projects implemented on both Unix and Windows machines. Topics such as the Internet protocol stack, hardware, routing, circuit-switching and packet-switching networks, multiplexing, error handling and wifi are among those studied. Students use packet sniffing tools to design and simulate networks

Prerequisite: CS 338 Systems Analysis and Design or CS 341 Analysis of Algorithms and senior standing.

CS 341 - Analysis of Algorithms (3)

Emphasis on theory and techniques underlying the analysis of algorithms including big/little-Oh, graphs and networks, searching, sorting, recursion, and classical algorithms.

Prerequisite: CS 112 Data Structures and Calculus .

CS 348 - Programming in Unix (3)

Discusses main issues of Unix OS programming and administration. Explores the popular Unix file system, regular expressions and their uses, filters awk, stream editor, shell programming, perl, and basics of system administration

Prerequisite: CS 341 Analysis of Algorithms.

CS 349 - Operating Systems (3)

Examines resource management (including memory allocation and management, virtual memory), process scheduling, protection, deadlocks, concurrency, file systems, I/O systems, distributed OS

Prerequisite: CS 341 Analysis of Algorithms.

CS 367 - Network Security (3)

How does network security support the business mission and how many resources are necessary to support network security? Where are network vulnerabilities? This course addresses these complex issues. Among the topics covered are: conventional encryption and message confidentiality, public key cryptography and message authentication, authentication applications, e-mail security, IP security, Web security, firewalls, security in mobile networks, and other security issues

Prerequisite: CS 339 Networking and Data Communication.

CS 368 - Cybersecurity Principles (3)

What is Cybersecurity? What is a threat and how do you protect your network against these threats in the constantly changing cyber world? This course will cover the following topics: Introduce Cyber-Security Concepts, Cyber-Security Threats, Cyber-Security Attack Types, Cyber-Security Attack History, and Approaches to securing the organization, Protections from Cyber-Security

Prerequisite: CS 367 Network Security.

CS 371 - Advanced Game Programming (3)

A game oriented programming course focusing on advanced graphics techniques using OpenGL and/or DirectX. Topics covered include: visual simulation; object realism; image processing; special effects; and simulating environments. Student will also become familiar with range of existing libraries.

Prerequisite: CS 272 OOP with C# and Games.

CS 372 - Building Computer Games (3)

Students in this course function as a game development studio. As a group we write a game design document, build a prototype, and perform user testing. After completing testing we revise our design and begin developing animations in the Motion Capture Lab. At the same time the 3D object developers create game characters. Students also have the opportunity to specialize in level design, C# programming, sound, lighting and gameplay. At the end of the semester we have a finished video game.

Prerequisite: CS 371 Advanced Game Programming.

CS 390 - System Administration or Maintenance Internship (3)

This course provides students with real world internship experience. For Information Technology Majors

Prerequisite: Junior or senior status.

CS 398 - Mobil Apps (3)

Students in this course will learn how to design and develop applications for mobile devices.

Prerequisite: Junior or senior status.

CS CS 417 - Senior Project Design

This senior project design course is offered in the fall of the senior year. Students work with senior capstone project coordinator and a faculty mentor to define an important problem in their discipline, and propose to implement a solution as a team.

CS 418 - Senior Project Implementation

This senior project implementation course is offered in the spring of the senior year. Students work with a faculty mentor to implement their project. Students are required to assess requirements, design and

develop the software and write detailed documentation that illustrates and supports design choices. Test plans, usability testing and prototypes are also required. Students present their complete, working projects to the department faculty and public as the culmination of this project.

CS CS 421 - Theory of Computation

Theory of Computation

CS CS 422 - Compiler Design

CS CS 430 - Cyber-Physical Systems

Cyber-Physical Systems

CS CS 432 - Cloud Computing Fundamentals

CS CS 461 - Software Engineering

Software Engineering

CS CS 472 - Computer Graphics

CS 481 - Introduction to Artificial Intelligence (3)

An introduction to Artificial Intelligence.

CS 482 - Applied Machine Learning (3)

CSE - Computer Science and Engineering

CSE 125 - CSE Explorations (1)

This course provides a hand-on introduction to the School of Computer Science and Engineering programs and allows students to learn about each program in more detail by completing hands-on learning exercises in a laboratory environment. This course is offered by a team of SCSE faculty and each cohort will rotate through program-specific laboratories.

Offered: Fall Semester, All Years.

CSE 300 - Stat and Prob for CS and ENGR (3)

Theories, concepts and applications of Statistics and Probability; from organizing and presenting data, sampling, testing hypotheses, confidence intervals and regression to probability theories, random variables and distributions.

Prerequisite: CS-112, MA-151. Offered: Spring Semester, All Years.

CSP - Catholic Studies

CSP 203 - Springsteen, Scorsese, and SHU (3)

What do the music of Bruce Springsteen, the films of Martin Scorsese, the 1960's antiwar movement, and high fashion have to do with Sacred Heart University's founding and mission? This course takes an interdisciplinary look at how Catholic thought and imagination have intersected with culture from the 1960's to the present time. Students engage with texts, films, and art, listen to music, as well as short excursions that show how the Catholic intellectual tradition has shaped and been shaped by the contemporary culture. Students will complete the class able to analyze texts across disciplines: discuss important issues in American society in relation to Catholic thought; and analyze tensions and consonances between the Catholic Intellectual Tradition and contemporary culture.

CSP 204 - Sinners, Saints, and Sacraments (3)

This interdisciplinary course explores the Catholic Imagination, particularly its depictions of sin and grace in Catholic literature and the Arts.

CSP 205 - Taking the Journey: The Camino (3)

This course explores the experience of pilgrimage. Students learn in classroom then spend ten days in Spain walking the Camino de Santiago.

CTL - Critical Thinking

CTL 125 - Critical Thinking (3)

Students will develop their critical thinking skills across disciplines and in different modes of discourse.

CY - Cybersecurity

CY 101 - Cybersecurity Explorations

Introduction to cybersecurity principles and concepts.

CY 125 - Cybersecurity Explorations

Introduction to cybersecurity professions, principles, concepts, tools and techniques using a variety of interdisciplinary approaches including colloquium seminars, events, and hands-on exercises.

CY 211 - Computer Networks

This course is an introduction to the standard models for layered communication in a network and key data transmission characteristics. Topics include communication architectures, OSI and TCP/IP model, signaling and modulation, circuit-switching and packet-switching networks, routing, error handling, network applications, security, and multimedia networking.

CY 212 - Web Development in UNIX

This course aims to teach fundamentals of software development with a focus on server-side programming. Open-source, web-based development environments such as LAMP stack will be introduced and utilized, with a focus on cybersecurity, with hands-on active learning

assignments, as well as a research project about recent secure implementation standards in open-source development frameworks.

CY 221 - Foundations of Cybersecurity

This course provides a holistic perspective on the structure of the cyberspace ecosystem and methods and techniques in building a functional cyberspace that is secure and resilient. Topics include cybersecurity first principles covering confidentiality, integrity, availability, risk, cybersecurity ethics, forensics, adversarial thinking, authentication and access control, systems thinking, and security management.

CY 222 - Fundamentals of Cryptography

This course offers a broad introduction to cryptography and its mathematical foundations, along with practical aspects of modern applied computer cryptography. Topics include block and stream ciphers; hash functions, data authentication, and digital signatures. Special emphasis is given to public-key cryptosystems. The course includes use of various encryption methods in different programming systems.

CY 311 - Cybersecurity: Ethics, Laws, Policies and Compliance

This course focuses on the ethical, legal, social and compliance issues associated with cybersecurity and its context in society. This course will explore areas including information privacy, accessibility, regulations and compliance requirements, and information laws required to create a safe digital environment within an organization.

CY 312 - Introduction to Cryptography

This course offers a broad introduction to cryptography and its mathematical foundations, along with practical aspects of modern applied cryptography to protect data at rest, during processing, and in transit. Topics include symmetric key encryptions, block and stream ciphers, public-key cryptosystems, hash functions, digital signatures, certificates, authentication protocols, and key management.

CY 321 - Cybersecurity Standards, Laws, and Policies

This course focuses on the legal, policy and compliance issues associated with cybersecurity and its societal impact. This course will explore areas including information privacy, accessibility, regulations and compliance requirements, and information laws required to create a safe digital environment.

CY 322 - System Security

This course will provide an introduction on how to set up a secure development environment, go over best practice models, and secure programming techniques in different frameworks, as well as common web application languages such as client-side JavaScript and SQL database programming.

CY 323 - System Security

How do you secure the critical infrastructure that supports our cybersecurity landscape? What threats and attacks do systems constantly face? This course will address these complex issues in securing the system & applications that run in today's organizations. Among the topics covered are: Secure System Hardening, Access Controls, Security

System, Management, Secure Administration, Security Monitoring, Secure Back-ups, Application Security Concepts, Other security issues.

CY 324 - Forensic Computing

This lab-based course introduces concepts, tools and techniques related to forensic investigation in the digital world. The topics include FAT and NTFS file systems, registry artifacts, hardware write blockers, data recovery, memory and network data forensics and analysis, chain of custody, and fourth amendment considerations when searching and seizing digital evidence.

CY 325 - Usable Security and Privacy

This course explores the impact of human factor in the security, privacy, and threat mitigation of different systems by covering a variety of usability and user interface problems. The course introduces basic human behavior when interacting with the security and privacy aspects of a system and provides students an experience in designing systems that result in improved security and privacy outcomes.

CY 367 - Network Security

This course introduces students to different concepts, tools, and techniques in effectively securing connections between different components, both physical and logical, of a network. By participating in a number of hands-on activities, students will learn to protect an organization's network and components, from various cybersecurity threats and manage risks to support a successful accomplishment of its mission. Topics covered include conventional encryption and message confidentiality, public key cryptography and message authentication, network-based threats, firewalling and access control, intrusion detection and prevention systems.

CY 410 - Software and System Security

This course focuses on common vulnerabilities in software and system design, implementation and usage. It lays the foundations of secure software development strategies and reverse engineering techniques to reliably preserve the security properties of real-world productions systems in the face of cyber-attacks. It also covers the security aspects of the design, procurement, testing, analysis, and maintenance of different components of these systems.

CY 413 - Internship in Cybersecurity

The course will provide students' an opportunity to obtain real-world experience by working on a project within a cybersecurity-related business organization or research lab with their on-site supervisor and co-supervised by a faculty member. A final summary report will be required from both student and supervisor.

CY 414 - Directed Research in Cybersecurity

Research under supervision of a cybersecurity faculty member on a recent technological advancement including literature search, testing, and prototyping (if applicable). A final report and presentation will be required from the student.

CY 417 - Cybersecurity Capstone Project I

In this two-sequence course, students work with a faculty advisor on a research and implementation-based capstone project in cybersecurity.

As the first part of the project, the course focuses on performing a systematic and relevant literature review to identify a research problem.

CY 418 - Cybersecurity Capstone Project II

This course is a continuation of Cybersecurity Capstone Project I, focusing on the implementation and testing of solution to the identified research problem. At the end of the project, the students submit a technical report approved by the faculty member and make a public presentation of the work.

CY 419 - Cooperative Studies in Cybersecurity

Full-time career-related work experience in cybersecurity-related business organization during one full semester. Students will work with their on-site supervisor. A final summary report will be required from both student and supervisor.

CY 420 - Vulnerability Assessment and Penetration Testing

This hands-on course builds on crosscutting concepts and fundamental topics to provide students with a deeper understanding of software, system, and network level vulnerabilities, their identification, exploitation and remediation. The course covers topics in vulnerability scanning and assessment, and penetration testing methods and frameworks. Students are expected to complete several individual and group projects, document their findings and present their results.

CY 421 - Cloud Computing: Architecture, Operations and Security

This course presents several cloud computing tools and technologies, including virtualization, web services, data analysis, and integration. It also introduces securing cloud technologies and applying best practices. Upon completing this course, students will have theoretical knowledge of contemporary cloud computing tools, and practical experience in securely configuring, administering and maintaining them.

CY 422 - Web and Application Security

This course provides a foundation in securing core technologies supporting Internet applications. It introduces mechanisms and processes for developing and administering web applications with proper protection and access controls. The course also explores securing applications on mobile platforms.

CY 423 - Wireless Network Security

This course provides students with a foundational knowledge of wireless networks and associated security issues. It covers topics including basics of wireless networking, wireless network deployment, wireless network attacks, authentication technologies in wireless network, and mechanisms for securing wireless network, through traditional learning and hands-on activities.

CY 424 - Emerging Trends in Cybersecurity

This is an open-ended course designed to focus on recent and emerging topics in cybersecurity not otherwise covered in detail in other cybersecurity related courses. The contents of this course are driven by instructors' research expertise and recent trends in cybersecurity.

CY 429 - Ethical Hacking

This course introduces students to the security threat of computer hacking and system vulnerabilities and exploits. The course will introduce techniques and hacking skills that black-hat hackers use to compromise systems. The class will teach students how to perform white-hat hacker and ethical hacking techniques to safeguard a computer network.

CY 431 - Incident Response and Risk Management

This course prepares students with the foundations of properly detecting, handling, mitigating, and responding to cybersecurity incidents. The course covers topics in threat hunting, risk analysis, incident handling procedures, intrusion forensics, timeline analysis, and forensic report writing. A basic understanding of cybersecurity principles and digital forensics is required for this course.

CY 432 - Intrusion Detection and Network Forensics

This course covers both theoretical and practical aspects of intrusion identification and network traffic investigation. It provides students with tools and techniques used in identifying different types of network attacks including but not limited to performing network traffic analysis from a forensics standpoint.

CY 435 - Digital Forensics

In this course students will learn how to understand and differentiate between file systems and operating systems; explain in detail the FAT file system; be exposed to the NTFS file system; identify Windows and registry artifacts; understand hashing and its uses in digital forensics; understand Fourth Amendment considerations when searching and seizing digital evidence, chain of custody; use hardware write blockers to perform data acquisitions using methods and tools discussed in class; perform basic data recovery; understand file signatures and its uses and be introduced to memory (RAM) forensics and analysis.

CY 441 - Cloud Computing

Architecture, Operations and Security: This course presents a number of cloud computing tools and technologies, including virtualization, web services, data analysis, and integration. It also introduces securing cloud technologies and applying best practices. Upon completing this course, students will have theoretical knowledge of contemporary cloud computing tools, and practical experience in securely configuring, administering and maintaining them.

CY 442 - Web and Application Security

This course provides a foundation in securing core technologies supporting Internet applications. It introduces mechanisms and processes for developing and administering web applications with proper protection and access controls. The course also explores securing applications on mobile platforms.

CY 455 - Malware Analysis and Reverse Engineering

This course lays the foundations of different categories of malwares such as virus, worms, Trojans, rootkits, adware, and spyware. It will also cover the foundations of reverse engineering malicious software's, learning secure software development strategies, and potential countermeasures in real-world productions systems in the face of cyber-attacks.

CY 471 - Wireless Network Security

This course provides students with a theoretical foundation of wireless networks and helps them develop technical skills in associated security issues. It covers topics including basics of wireless networking, wireless network deployment, wireless network attacks, authentication technologies in wireless network, and defense mechanisms for securing wireless network.

CY 472 - Special Topics in Cybersecurity

This is an open-ended course designed to focus on recent and emerging topics in cybersecurity (such as industrial control system security) not otherwise covered in detail in other cybersecurity related courses. The contents of this course are driven by instructors' research expertise and recent trends in cybersecurity.

CY 491 - Cybersecurity Practicum or Internship

The course provides students' an opportunity to obtain real-world experience by pursuing an internship within a cybersecurity-related business organization or research lab and working on a project co-supervised by a faculty member from the School of Computing.

CY 492 - Cybersecurity Capstone Project

The goal of this class is to apply the knowledge gathered in first three years of the program and thereby sharpen students' skills in cybersecurity by doing a capstone project.

DA - Dance

DA 100 - Introduction to Dance History (3)

A survey of the purposes, functions, and manifestations of dance forms from early civilization to the present. Relationships are examined between dance and cultural developments.

DA 101 - Ballet I (3)

A practical, beginning level ballet class designed for the student who wishes to develop the basic foundation and technique of ballet. The primary focus is to develop appropriate alignment (placement of the spine and pelvis), good movement habits, and core strength. Students will also hone their ability to retain extended and continuous movement phrases and examine aesthetic principles as technical demands increase.

DA 102 - Ballet II (3)

A practical, intermediate level ballet class designed for the student who has a working knowledge of ballet and wishes to continue to strengthen his or her technique. Emphasis is placed on increasing physical awareness, core strength, flexibility and balance as well as coordination and phrasing. A strong focus is placed on the individual artistic and physical expression of each student.

Prerequisite: DA 101 Ballet I.

DA 103 - Jazz I (3)

A practical, beginner level Jazz dance class designed for the student who wishes to develop a basic foundation of kinetic and social elements of Jazz dance technique.

DA 104 - Hip Hop (3)

This course is designed to introduce students to the basic positions, steps, terminology, fundamental skills, and cultural forces that form the foundation of hip hop dance technique.

DA 105 - Tap I (3)

This course is designed to introduce students to the basic positions, steps, terminology, fundamental skills, and cultural forces that form the foundation of tap dance technique.

DA 106 - Dance for Musical Theater I (3)

A practical open level dance class designed to familiarize the student with the styles of dance most frequently used in Musical Theatre. Students will be given an overview of the various expectations and roles that may be required in the Musical Theatre Industry.

DA 107 - Irish Step Dance (3)

This course is designed to introduce students to the basic positions, steps, terminology, fundamental skills, and cultural forces that form the foundation of Irish step dance technique.

DA 108 - Ballroom Dance (3)

This course is designed to introduce students to the basic positions, steps, terminology, and fundamental skills that form the foundation of ballroom dance.

DA 109 - Dance Movement (1)

The purpose of this course is to enable the student to gain a heightened awareness, appreciation and knowledge of dance through movement and performance. Focus is placed on the foundations of dance such as control, aesthetics, dynamic alignment, athleticism, musicality, use of space and artistic expression.

DA 201 - Intermediate Ballet I (3)

This course is designed to introduce students to the basic positions, steps, terminology, and fundamental skills that form the foundation of intermediate ballet technique.

A prerequisite to DA 202

Prerequisite: DA 102 Ballet II.

DA 202 - Intermediate Ballet II (3)

This course is designed to further develop intermediate ballet technique and introduce students to advanced steps, terminology, and skills. Students must demonstrate an understanding of intermediate concepts.

Prerequisite: DA 201 Intermediate Ballet I.

DA 203 - Jazz II (3)

A practical, intermediate- advanced level Jazz dance class designed for the student who has the basic knowledge of Jazz dance technique and wishes to strengthen his or her technique and performance quality in the Jazz dance idiom.

Prerequisite: DA 103 Jazz I.

DA 206 - Dance for Musical Theater II (3)

Study and directed practice of advanced individual and group dance in modern musicals. Students will also practice learning choreography under time constraints to better prepare them for the musical-theatre audition process.

DA 250 - Choreography I (3)

This class is designed to help students build the ability to move freely and create movement vocabulary. Students will work, not within a specific technique of dance, but use the somatic and kinesthetic principles of movement to create movement. Dynamics of movement will be explored through use of external directives. The student's mastery of creative expression with their body is the center of the work.

DA 260 - Choreography II (3)

This course is designed to further students' understanding of choreography and choreographic techniques. In addition to conceptualizing, creating, revising, and analyzing dance, students will also delve deeper into the improvisation as well as the grant-writing process.

DA 299 - Special Topics in Dance (3.00 Credit(s))

These courses capitalize on timely topics, a faculty member's particular interest, an experimental alternative to existing courses, etc. The specific special topic will show on the student's transcript.

Distribution: Theater Arts. Offered: As Needed Contact Department.

DA 300 - Dance Ensemble Production (1)

This course requires participation in a dance production in at least one genre of dance. This production is overseen by the director of the SHU Dance Ensemble. This course can be taken multiple times for credit.

DA 301 - Dance Company Production (1)

This course focuses on the development of technical proficiency and performance elements in various dance forms including but not limited to; classical ballet, modern dance, jazz dance, tap dance and contemporary dance forms. Classes and choreography will model advanced level technique within these disciplines. Audition is required for participation in this course. This course can be taken multiple times for credit.

DA 302 - Ballroom Dance Production (1)

This is an open level dance class designed to introduce students to basic skills in Foxtrot, Waltz, Tango and Latin Dances. Students enrolled in this course may be eligible to perform in several dance program productions throughout the year. This course can be taken multiple times for credit.

DA 303 - Irish Dance Production (1)

This course focuses on the development of technical proficiency and performance elements in Irish dance. Classes and choreography will

model advanced level technique within this discipline. Audition is required for participation in this class. This course can be taken multiple times for credit.

DA 304 - Hip Hop Production (1)

This is an open level course which will explore a wide array of styles that comprise and influence the ever-evolving movement of Hip Hop dance. Students will work to learn the kinetic, social and cultural elements of hip hop. This course can be taken multiple times for credit.

DA 304 A is open without pre-requisite

DA 304 B is by petition only

DA 310 - Social Issues Through Dance (3)

This course explores various current events and historical, social, and political issues as represented through dance. Through this course students will have a deeper understanding of a range of social issues as well as knowledge of how greater global awareness can be achieved through dance.

DA 396 - Dance Internship (1-6)

Dance Internship is an opportunity for qualified students in the Dance minor to gain practical experience in dance production and management.

Prerequisite: Permission of instructor and program director.

EC - Business Economics

EC 101 - Introduction to Economics (3)

Introductory course for the non-Business major. Provides a foundation in the workings of the economy. Describes and analyzes major concepts and issues of macroeconomics and microeconomics. Examines key institutions including the Federal Reserve System, corporations, and labor unions. The course is open to non-Business majors only.

EC 202 - Principles of Microeconomics (3)

This course introduces microeconomic concepts such as supply and demand analysis, theories of the firm and individual behavior, competition and monopoly, welfare analysis, and labor market. Students will also be introduced to the use of microeconomic applications to address problems such as the role of government, environmental policies, insurance markets, and income distribution.

A prerequisite to EC 203, EC 313, and EC 315

Prerequisite: MA 106 College Algebra or MA 109 Mathematics for Decision-Making or MA 110 Calculus for Decision-Making (MA 110 is encouraged for those considering graduate school).

EC 203 - Principles of Macroeconomics (3)

This course introduces macroeconomic concepts and analysis of unemployment and inflation within the context of the business cycle, the determinants of economic growth, the role of interest rates in savings and investment, the interaction of money and the banking system, and corrective monetary and fiscal policies. Students gain an international

perspective by assessing the role of international trade and exchange rates in the modern global economy.

A prerequisite to EC 301, EC 302, EC 303, EC 316, EC 321, EC 342, EC 373, and EC 399

Prerequisite: MA 106 College Algebra or MA 109 Mathematics for Decision-Making or MA 110 Calculus for Decision-Making and EC 202 Principles of Microeconomics.

EC 211 - Economics of Social Issues (3)

Applies basic economic principles to analyze social issues. Topics include prices and the allocation of resources, the role of incentives, free trade, economic growth, market failure, the distribution of wealth and income, healthcare, crime, and education.

EC 299 - Special Topics in Economics (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

EC 301 - Intermediate Macroeconomic Analysis (3)

A course in aggregate economic analysis. Examines theories of the determination of national income and employment. Policies associated with these theories are critically examined.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 302 - Global Financial Markets & Institutions (3)

This course provides a comprehensive review of the global financial markets, instruments, and institutions. It is designed to expand students' awareness and understanding of the conceptual background for financial decision-making related to corporate finance, banking, and international finance. The first part provides an introduction to financial markets, the attributes of financial assets, and the characteristics of the market participants. The second part includes chapters dedicated to various financial markets, some of which include debt, stock, foreign exchange, real estate, derivatives. Finally, the course discusses the risks faced by investors when they are participating in financial markets. In this course, we will stress practical applications and the impact of current events on financial markets.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 303 - Seminar on U.S. Economy & Monetary Policy (1)

This is a one-credit course to learn about U.S. macroeconomics aspects and monetary policy implementation by the Federal Reserve Bank. Selected students will participate in the Fed Challenge competition held in November by the Eastern Economic Association with partnership of New York Federal Reserve Bank. Students learn to work in a team environment, conduct research in macroeconomics, write short papers on economic topics, and conduct data analysis to make graphs and tables. In addition, they also learn how to make PowerPoint

presentations and give presentations in front of audience. The course is open to Business Economics and/or Finance majors only.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 304 - Money & Financial Institutions

This course overviews the global financial markets and institutions. It examines the regulatory framework and asset/liability management at commercial banks and other financial institutions. It analyzes the significance of money, credit, and interest rates as well as the impact of monetary policy on the economy. Students learn about assessment and management of various types of risks faced by global financial institutions.

EC 308 - Theories of Political Economy (3)

Examines the foundation of and challenges to market capitalism. The role of political actors, shortcomings of the market, and the trend toward globalization are emphasized. Seminal works of Adam Smith, Karl Marx, and other economic theorists are explored.

EC 313 - Managerial Economics (3)

Analyzes the structure of industry, business firms, and the application of analytical tools of economics to decision-making. Topics include the determination of relevant costs for decisions within the business firm, pricing and capital budgeting problems, risk and uncertainty, and cases involving actual managerial situations that require the use of economic analysis.

Prerequisite: EC 202 Principles of Microeconomics or MA 133 Business Statistics.

EC 315 - Game Theory (3)

Game theory is the study of strategic situations – those where the best course of action depends on actions of other economic agents. Several perfect applications of game theory naturally occur in the business world where almost every decision is strategic, i.e., made keeping in mind the actions of competitors. Thus, to be successful in understanding and crafting complex and important business decisions, one must understand how to “play the game”. This course will introduce students to the science of strategic interactions as they occur in the business world. Students will learn the basics of game theory, as well as its the applications to real world business situations such as auctions, pricing under imperfect competition, first mover advantage, bargaining and negotiations, signaling and screening, incentive pay, etc. The class will alternate between developing the tools of game theory one week, and analyzing interesting applications of that theory next week using online games and case study analysis.

Prerequisite: EC 202 Principles of Microeconomics.

EC 316 - International Economics (3)

This course examines basic theories of international trade, modern trade policies, and international finance. It overviews the changing global business patterns, with a special focus on new economic and regulatory policy challenges in the aftermath of the first global recession of the 21st century. Students who master the course material will gain knowledge and skills for succeeding both in the public sector institutions and in international business organizations.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 320 - Health Economics (3)

This course introduces the application of economic theory to the production of health and healthcare services. Students will investigate the demand for medical care and the roles of moral hazard and adverse selection in the health insurance market. They will analyze the differences in pricing and utilization across healthcare systems (HMO, PPO, POS), markets for physicians, hospital and pharmaceutical services, as well as the role of the government in the regulation and administration of healthcare. Students will also learn the decision-making tools used in the economic evaluation of healthcare interventions.

Prerequisite: MA 131 Statistics for Decision-Making or MA 133 Business Statistics or higher or EX320.

EC 321 - Labor Economics (3)

Applies the fundamentals of microeconomic and macroeconomic analysis to important decisions that people make in labor markets. Topics include the understanding of the wage and employment determination in the labor market, the wage differential, investing in human capital (i.e., education and training), labor mobility (including immigration), discrimination, unions, and unemployment. The course will cover both theoretical and empirical aspects of these issues.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 342 - European Economic Development (3)

This course provides students with a comprehensive examination of the European economic development and integration process. Historical, political, legal, and institutional aspects of the economic development and integration are analyzed. In addition, the course material overviews the main macroeconomic and regulatory policies of the European Union.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 373 - Public Finance (3)

Examines the role of the public sector in the economy. Provides an understanding of the reasons for government intervention in the economy, the extent of that intervention, and the response of private agents to the government's actions. Analyzes both the taxation and the expenditure sides of the government budget. Discusses the impact of taxes on income distribution and explores the expenditure programs, their nature, importance, purposes, and economic effects.

Prerequisite: EC 203 Principles of Macroeconomics.

EC 396 - Current Issues in Economics (3)

Examines major contemporary economic issues. Demonstrates how economists deal with the difficult problems of the day. Open to both prospective majors and non-majors.

Prerequisite: EC 203.

FN/EC 390 - Internship (3-9)

Students are directly involved in various practical applications of economics and finance knowledge to a specific industry or organization. The emphasis is on acquiring hands-on skills. An on-site professional supervises students.

Prerequisite: Instructor permission.

EC 404 - Machine Learning in Economics

This course provides an overview of different concepts, techniques, and algorithms in machine learning and their applications in economics.

EC 481 - Econometrics for Business

The course focuses on the application and interpretation of econometric techniques with real-world applications in economics, finance and business. The course will cover less theoretical aspects of the econometric tools while emphasize the use of a suitable computer software to gain knowledge and experience in business and economic research. The class is divided in four parts: Statistical Estimation and Inference, Ordinary Least Squares (OLS), Panel and times series data models, and Limited Dependent Variables.

EC 491 - Quantitative Methods in Economics & Finance (3)

Aimed at developing advanced quantitative skills needed for modern economic and financial analyses. The course covers the fundamental of regression analysis as well as regression with panel data and binary dependent variable. Time-series multivariate regression is also examined including cointegration tests, ARMA procedures, and causality tests. Computer applications of econometric programs are required.

A prerequisite to EC 492

Prerequisite: MA 131 or MA133 or MA331.

EC 492 - Economic & Financial Forecasting (3)

Survey and applications of core time-series techniques of economic and financial analysis. Incorporates standard and advanced models of trend, seasonality, and cycles as well as recursive techniques, volatility measures, simulation methods, and stochastic trends. Extensive use of the EViews software program for both modeling and forecasting purposes.

Prerequisite: EC 491 Quantitative Methods in Economics.

ED - Education

ED 100 - Teaching & Learning for Aspiring Educators (3.00 Credit(s))

Are you interested in becoming a teacher? Do you believe in the promise of opportunity for all children? Aspiring educators, and those interested in working with elementary and middle school-aged children, will gain practical experience working with children, under the guidance of master teachers and the support of graduate students in Sacred Heart University's Farrington College of Education (FCE).

Distribution: Teacher Education.

ED 150 - Introduction to Teaching Secondary Education (3.00 Credit(s))

This course will provide content areas such as math, science, history, English and world languages an opportunity to explore the profession of education and teaching. Students will reflect upon their own educational experiences as a way to articulate their beliefs and values about teaching, learning, and schooling. Topics covered will include the historical, cultural, and philosophical foundations of the American public education system and how the public purposes of education intersect with democracy. Students will also examine current and historical roles, expectations, stereotypes, and characteristics that define teaching as a profession. Current articles, guest speakers, films and events will be central to the course. The course will also provide a clinical experience with secondary students.

Distribution: Teacher Education.

ED 300 - Educational Psychology (3.00 Credit(s))

Considers the application of psychological principles to educational theory and practice. Candidates explore the many ways of thinking about knowledge, teaching, and learning. Major theories of learning and development are introduced and consistent themes and concepts identified. There is a 15-hour service-learning requirement in a PK-12 educational setting.

Distribution: Teacher Education.

ED 301 - Introduction to Exceptionalities (3.00 Credit(s))

Focuses on identification of students with exceptional needs as well as methods of meeting their educational needs in regular and special classroom settings. Exceptionalities studied include all areas identified by national and state mandates. There is a 5-hour service-learning requirement in a PK-12 educational setting.

Distribution: Teacher Education.

ED 302 - Education in the U.S. (3.00 Credit(s))

Discusses current issues in American education, explores their historical and philosophical roots, and critically examines possibilities for the future of education. There is a three-hour service-learning requirement in a PK-12 educational setting.

Distribution: Teacher Education.

ED 304 - Multicultural Education (3.00 Credit(s))

Fosters understanding of diversity. Candidates attain problem-solving and listening skills necessary for attitudinal changes for an appreciation of diversity. Group process activities are presented to help candidates understand biases and stereotypical assumptions and how these affect decisions in the classroom. Portions of this course are experiential. There is a 15-hour field experience requirement in which candidates interact with persons of different cultural, linguistic, religious, socioeconomic, and ethnic backgrounds.

Distribution: Teacher Education.

ED 341 - Irish Education Comparative Perspectives (3.00 Credit(s))

Based in the Gaeltacht region of West Kerry, the course compares the education system in Ireland with that of the United States. Topics addressed include curriculum and instruction, funding and governance,

teacher preparation, multiculturalism, language policy, and contemporary school reform. Student will be introduced to the students and teachers of Dingle, Ireland and experience the Irish education system up close and personal. Students will observe classrooms in action, learn from Irish teachers and administrators, and meet teacher candidates and their professors. Open to all students in FCE teacher preparation programs, the course counts in lieu of ED 302 Education in the United States or ED 304 Multicultural Education or it serves as an MAT elective.

Distribution: Teacher Education.

ED 343 - Introduction to Language & Literacy (3.00 Credit(s))

This course will examine language development and its relationship to the development of reading and writing strategies, skills, and dispositions for students. This course will introduce students to a sociocultural perspective of language acquisition and development, and the ways in which oral language ability supports learning. The influence of culture on language and literacy development will be examined.

Distribution: Teacher Education.

ED 401 - Educational Technology (3.00 Credit(s))

Familiarizes participants with methods for integrating technology to support teaching and learning in the 1-12 curriculum. A variety of software programs will be used that are applicable to a variety of learners as well as to enhance professional productivity. Participants will acquire basic strategies for evaluating and incorporating technology resources into the curriculum and legal, ethical and safety issues regarding technology use will be analyzed. A PC with Microsoft Office and Internet access is required. A three-hour field experience in a diverse 1-12 educational setting is required.

Distribution: Teacher Education.

ED 402 - Societal Issues in Adolescence (3.00 Credit(s))

Focuses on the current school and community responses to problems such as substance abuse, AIDS, gender issues, etc. Through classroom presentations, speakers, and audiovisual materials, students gain practical insight and understanding of contemporary issues in adolescent life.

Distribution: Teacher Education.

ED 403 - Children's Literature (3.00 Credit(s))

Examines a variety of genres of children's literature to cultivate student interest in books and to develop methods for incorporating literature into classroom experiences. Criteria for selecting children's books are included. Multicultural literature and the dramatic arts are emphasized.

Distribution: Teacher Education.

ED 404 - Classroom Management: Elementary (3.00 Credit(s))

Explores teaching strategies for managing the elementary classroom and for meeting the relevant standards found in Connecticut's Common Core of Teaching. Candidates learn practical approaches for the establishment of procedures and routines that promote a safe, orderly, and inviting place in which to teach and learn. The course initially focuses on creating

a positive learning environment where negative, distracting behaviors are less likely to occur. Candidates gain the insight, knowledge, and skills that enable them to cope with classroom disruptions and incorporate a variety of techniques that are appropriate for the elementary level. Candidates explore methods and systems of management that will allow them to move beyond traditional rewards, punishments, bribes, and threats. Includes a five-hour service-learning experience in an elementary setting.

Distribution: Teacher Education.

ED 405 - Classroom Management: Secondary (3.00 Credit(s))

Explores teaching strategies for managing the secondary classroom and for meeting the relevant standards found in Connecticut's Common Core of Teaching. Candidates learn practical approaches for the establishment of procedures and routines that promote a safe, orderly, and inviting place in which to teach and learn. The course initially focuses on creating a positive learning environment where negative, distracting behaviors are less likely to occur. Candidates gain the insight, knowledge, and skills that enable them to cope with classroom disruptions and incorporate a variety of techniques that are appropriate for the secondary level. Candidates explore methods and systems of management that will allow them to move beyond traditional rewards, punishments, bribes, and threats. Includes a five-hour service-learning experience in a secondary setting.

Distribution: Teacher Education.

ED 499 - Global Engagement in EDU Internship (1.00-6.00 Credit(s))

Students will work with an advisor to develop learning goals and course assignments that connect content learning from education courses to practical experiences gained in their global education internship.

Distribution: Teacher Education. Offered: As Needed, Contact Department.

ENG - English

ENG 265 - Writing in the Health Fields (3)

This course is designed to help students better understand and accomplish writing in the Health Professions.

Prerequisite: FYS 125 First Year Seminar.

ENG 276 - Modern Irish Writing (3)

This course introduces students to the richness of Irish tradition from the Irish Revival to new Irish writing.

Prerequisite: ENG 201 Experiencing Literature.

ENG 201 - Experiencing Literature (3)

This class introduces students to literary expression across the globe. Through an analysis of prose (fiction and nonfiction), poetry, and drama, students will develop and refine their close reading skills, including understanding basic literary terminology. At the same time, the course focuses on writing and thinking critically about stories. Ultimately, this

course will offer students an opportunity to "experience" and appreciate literature of the world.

ENG 210 - Literacy Research and Writing (3)

This course introduces students to the techniques and methods of literary research.

ENG 215 - Major British Authors Pre-18th Century (3)

Selected major British authors pre-18th century will be studied e.g. Shakespeare, Spenser, Milton, Marlow, and others.

ENG 220 - Studies in British Literature to 1603 (3)

Major works of British poetry and prose, beginning with Old English and Beowulf and expanding through the literature of the Middle Ages with special emphasis on Chaucer and Elizabethan poets. Some drama, exclusive of Shakespeare, is included.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 221 - The British Tradition I (3)

This course studies British Literature from its earlier stages in Anglo-Saxon literature (pieces such as "Caedmon's Hymn" and "Beowulf") to the Middle Ages to the Elizabethan/Jacobean period to the mid- and later seventeenth century including the metaphysical poets Milton and Dryden and concludes with the literature of the eighteenth century. Sophomore level required for English majors only.

A prerequisite to ENG 222

ENG 222 - The British Tradition II (3)

From the Age of Reason to the Age of Anxiety. Course highlights romantic writers such as Wordsworth and Keats, Victorians such as Dickens and Arnold, and modernists such as Joyce and Woolf. Sophomore level, required for English majors.

A prerequisite to ENG 220, ENG 223, ENG 224, ENG 225, ENG 226, ENG 227, ENG 228, ENG 229, ENG 230, ENG 233, ENG 234, ENG 235, ENG 239, ENG 240, ENG 241, and ENG 244

Prerequisite: ENG 221 The British Tradition I.

ENG 223 - Shakespeare (3)

Explores a wide variety of plays from a literary as well as a theatrical perspective, with emphasis on Shakespeare's development as a dramatist and the relationship of his plays to their historical and cultural context.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 224 - Seventeenth-Century British Literature (3)

Examines the works of Jonson, Donne, Herbert, Marvell, some of the lesser-known metaphysical and Cavalier poets, and Milton. Prose writings of Browne, Burton, and Bunyan are also studied.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 225 - Restoration & Eighteenth-Century British Literature (3)

Dryden, Pope, Swift, and Johnson are read, as well as Restoration dramatists (Congreve, Etherege, Wycherley) and early novelists (Defoe, Richardson, Fielding).

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 226 - Romantic Period in British Literature (3)

Emphasis on the literature written during and immediately after the French Revolution and England's ensuing war with France. The relationship between the individual and political, social, and intellectual environments is studied. Blake, Wordsworth, Shelley, and Keats are read.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 227 - Victorian Period in British Literature (3)

Explores the literature of Tennyson, Browning, Arnold, Dickens, Eliot, Newman, Ruskin, Pater, Swinburne, and others. Focuses on major writers of the period (1830-1901) beginning with the poetry and concluding with studies in the Victorian novel.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 228 - Twentieth-Century British Literature (3)

Addresses modernism as it is shaped and constructed in the classic texts of Conrad, Woolf, Yeats, Joyce, Lawrence, and others.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 229 - British Literature: Special Topics (3)

Course description varies each time the course is offered.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 230 - Colonial & Federal American Literature (3)

Focuses on Colonial American writing from 1620 to 1800. Bradford, Edwards, Taylor, and Franklin are studied.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 233 - American Renaissance (3)

A study of transcendentalists: Hawthorne, Melville, Poe.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 234 - Dickinson to Eliot (3)

Reveals much about America's "Gilded Age" and American's emergence into the modern world with its writers of "the wasteland" and the "lost generation."

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 235 - Faulkner to the Present (3)

Modern American literature in content and technique reflects twentieth-century preoccupation with loss of faith, the rise of individual consciousness, and the dilemma of radical alienation in an increasingly fragmented society.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 236 - Contemporary American Fiction (3)

Deals with current American authors; course description varies each time the course is offered.

Prerequisite: ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 237 - Nature Writing (3)

This course explores the connections between our natural environment and the diverse ways we communicate our ideas, perceptions, and feelings about that environment. Writers work to discover a rhetorical stance and voice that effectively evokes the natural world in prose.

Prerequisite: Requires no prerequisites when taken by a non-English major.

ENG 238 - American Experiences (3)

A one-semester survey of the most important works of American literature. Required for English majors only.

A prerequisite to ENG 200, ENG 223, ENG 224, ENG 225, ENG 226, ENG 227, ENG 228, ENG 229, ENG 230, ENG 233, ENG 234, ENG 235, ENG 236, ENG 239, ENG 240, ENG 241, ENG 242, and ENG 244

ENG 239 - Studies in American Literature: Special Topics (3)

Course description varies each time the course is offered.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences for English majors; requires no prerequisites when taken by a non-English major.

ENG 240 - Early American Black Literature (3)

African-American literature from 1790 to 1900, including the slave narratives, the mockingbird school, and folk poetry.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 241 - Black Writers in America (3)

A consideration of Black writers from Dunbar and Chesnutt to the present. Study of Harlem Renaissance writers including Wright, Ellison, Hayden, Brooks, Tolson, Baldwin, Baraka, and the Black arts movement. Emphasis on the relation of the works to traditional images of Blacks in America and to themes found in American literature as a whole.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 242 - American Women of Color (3)

This course examines the writings of African-American women. The specific authors change each time the course is offered.

Prerequisite: ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 243 - Latin-American Literature in Translation (3)

This course explores the works of well-known writers from the Latin-American world. The specific authors vary each time the course is offered.

Prerequisite: Requires no prerequisites when taken by a non-English major.

ENG 244 - Studies in World Literature (3)

Explores works both inside and outside the Western canon.

Prerequisite: ENG 222 The British Tradition II and ENG 238 American Experiences; requires no prerequisites when taken by a non-English major.

ENG 245 - American Literature for Elementary Educators (3)

This course surveys American literature from the early national period to the present, with an emphasis on twentieth-century texts. Students will read a wide variety of texts in different genres, including the essay, the short story, poetry, and the novel. Since the majority of the students enrolled in this course plan to teach at the elementary level, the course will emphasize close reading and other skills that will help the students make complicated ideas understandable and accessible.

ENG 246 - Disability Discourse (3)

This Humanities (English) elective examines the way that American authors have represented disability, both physical and mental, and explores what these representations reveal about the world in which we live. The class will distinguish between nonfictional narratives composed by writers with disabilities and fictional texts written about characters who have been marked as different or abnormal.

ENG 247 - Darwin & Literature (3)

ENG 248 - Postapocalyptic Literature (3)

This course analyzes postapocalyptic literature, including related genres such as dystopian fiction. The course also considers the social, cultural, and literary contexts of the texts.

ENG 251 - Modern Catholic Authors (3)

Explores the works and ideas of important Catholic authors.

Prerequisite: Requires no prerequisites when taken by a non-English major.

ENG 252 - Developing a Writing Voice (3)

From the colloquial to the informal to the formal, this course examines the development of writing voice and explores the stylistic and rhetorical choices writers make to communicate meaning and knowledge.

Prerequisite: Requires no prerequisites when taken by a non-English major.

ENG 253 - Introduction to Creative Writing (3)

An introductory course and workshop in creative writing, with a focus on poetry and short stories though other forms are welcome and encouraged. It is intended for students who have not had another course in creative writing at the college level but who have an interest in imaginative writing and who may be writing on their own without formal discussion or review of their work. This course is also the prerequisite for the minor in Creative Writing.

A prerequisite to ENG 270, ENG 271, ENG 272, ENG 273, and ENG 274

ENG 254 - American Gothic (3)

This course analyzes the genre of Gothic literature written in America. The course will consider the spectrum of Gothic literature, including Southern Gothic and horror. Students will also be introduced to the literary theories that inform the study of Gothic literature, including studies of the uncanny, the female Gothic, and others.

ENG 256 - Playwriting (3)

Students learn the techniques of writing plays through reading and extensive writing assignments.

ENG 257 - Critical Writing (3)

In this research-based writing course, students focus on writing argumentative essays. They will study and practice rhetorical strategies and techniques with emphases on improving their writing and researching skills. Close attention to crafting their writing voices/styles. Course prepares students for graduate work in literature or writing; for

positions in publishing and writing; and for writing in corporations, businesses, and health professions.

ENG 260 - Literature of Illness & Healing (3)

This course takes an interdisciplinary approach to the study of the human journey through illness and healing; its primary focus is on personal stories told by patients and dedicated healers. Readings included will speak to issues of gender, race, ethnicity, religion, class, sexual orientation and how it can affect the experience of being wounded or ill. The relationship of the health care system in regards to patient, provider and institution, will be addressed.

ENG 262 - Witches in Literature (3)

This course examines depictions of witches in literature, focusing primarily on American literature. The course also considers the cultural meanings of witchcraft, paganism, and related spiritual practices and how those are reflected in the literature. Students will also analyze the cultural and political meaning of witchcraft and witch hunts.

ENG 263 - Postcolonial Women Writers

This course will focus on contemporary literature written by women from former British colonies in South Asia, Africa, and the Caribbean, examining themes related to the postcolonial experience.

ENG 269 - Studies in Criticism or Theory: Special Topics (3)

Course description changes each time course is offered.

Prerequisite: Permission of department chair for non-majors.

ENG 270 - Short Story Writing (3)

An introductory course and workshop on the history and craft of the short story. The first part of the course is comprised of reading and using interpretive techniques for close reading of both canonical and new canonical versions of the short story. In the second part of the course, students will write a short story using some of the strategies and techniques of the short stories read in the first part of the course.

A prerequisite to ENG 376

Prerequisite: ENG 253 Introduction to Creative Writing for the Creative Writing Minor.

ENG 271 - Writing Social Fiction (3)

An examination of fiction as a form of social and ideological critique and the society that provided the backdrop from which the fiction emerged. The course also examines the interconnection between embodied experience and political agency with particular emphasis on diasporic groups, working class, and women. Students will have an opportunity to create their own form of social fiction using new media technologies.

A prerequisite to ENG 376

Prerequisite: ENG 253 Introduction to Creative Writing for the Creative Writing Minor.

ENG 272 - Writing Flash Fiction (3)

A course in writing very short narratives: flash fiction, prose poetry, prose poetry, sudden fiction, micro-writing, and postcard stories. This is not traditional fiction writing or the writing of short stories. This is a literary form related to narrative poetry, fables, and writing that defines or describes "moments." It provides an additional avenue of literary experiment for students currently writing in more traditional forms. Workshop atmosphere allows peer interaction and frequent student/instructor consultation.

Prerequisite: ENG 253 Introduction to Creative Writing for the Creative Writing Minor.

ENG 273 - Poetry Writing (3)

A seminar in the writing of poetry. The course includes various readings about poetry and its writing as well as background readings of contemporary American and world poetry. Discussion of student work will be the focus of the seminar. Workshop atmosphere allows peer interaction and frequent student/instructor consultation.

A prerequisite to ENG 371

Prerequisite: ENG 253 Introduction to Creative Writing for the Creative Writing Minor.

ENG 274 - Creative Writing Pedagogy (3)

An introduction to the genealogy of the "Creative Writing Movement" from 1880 to the Second World War and the writers and theorists who shaped it. It will further examine the key themes in the institutional history of creative writing and its tenuous relationship to English studies. The course will include literary critical and philosophical readings on creative writing as a practice and theory and examine the major currents and compelling voices that shape its disciplinarity. The course is for students who may want to teach creative writing in secondary school environments students preparing for graduate school or students who want to learn more about the historical roots of the "Creative Writing Movement."

Prerequisite: ENG 253 Introduction to Creative Writing for the Creative Writing Minor.

ENG 278 - American Ethnic Fiction (3)

This course examines contemporary fiction by a variety of Ethnic American writers (Irish, Italian, Jewish, African, Native, Hispanic, Asian, Middle Eastern) to explore how these different groups have had to grapple with issues of identity and community as they have become part of American culture.

ENG 279 - Trauma in Contemporary Literature (3)

This interdisciplinary course examines the various types of psychological trauma as represented in contemporary fiction.

ENG 285 - Seminars on Single Authors (3)

Studies the works and criticism of a single author. Limited enrollment.

Prerequisite: Permission of department chair.

ENG 299 - Special Topics in Literature (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

ENG 344 - Studies in World Literature (3)

Explores works both inside and outside the Western canon.

Prerequisite: ENCC 102 or ENG 222 and ENG 232 for English majors. Also open to students in the Multidisciplinary major.

ENG 359 - Studies in Writing: Special Topics (3)

Course description varies each time the course is offered.

ENG 360 - History & Structure of the English Language (3)

A survey of the major changes in structure, vocabulary, and uses of the language from the earliest times to the present. Explores important aspects of modern linguistic scholarship. Required for secondary education. Usually offered as an independent study for students needing the course as a Connecticut state teaching requirement; see the English Department chair.

ENG 361 - Literary Theory (3)

An overview of the history and major concepts of critical theory from Nietzsche through Marx, Freud, Lacan, Barthes, Foucault, Kristeva, Cixous, Derrida, Gates, and others. Important schools of thought include the New Criticism, semiotics, phenomenology, structuralism, neo-Marxism, deconstruction, gender studies, African-American criticism, and post-colonialism. Required for all English majors.

Prerequisite: Permission of department chair for non-majors.

ENG 362 - Rhetoric & Composition Pedagogy (3)

This course is designed for students who will be teaching writing in a secondary educational environment. The course demonstrates how research, scholarship, and theory can inform the teaching of writing.

ENG 371 - Advanced Poetry Writing I (3)

An advanced seminar and workshop in the writing of poetry. Weekly writing assignments and revisions. Discussion of student work and small group revision conferences will form the foundation of each class. Emphasis is on the continuing development of the individual poetic voice.

A prerequisite to ENG 372 and ENG 376

Prerequisite: ENG 273 Poetry Writing for the Creative Writing Minor.

ENG 372 - Advanced Poetry Writing II (3)

The continuation of EN 371 and intended principally for students enrolled in the poetry track of the Creative Writing minor. The emphasis is on revision of poems in preparation for individual publication and on the shaping of a first collection. Discussion of student work and small-

group revision conferences will form the foundation of each class. Additional emphasis on the continuing development of the individual voice and on public readings.

Prerequisite: ENG 371 Advanced Poetry Writing I for the Creative Writing Minor.

ENG 373 - Independent Study: Poetry (3)

An independent writing project, directed by the instructor and intended for advanced students in the poetry track of the Creative Writing minor who will work on a chapbook or full-length collection of poems. The course is also available to advanced students in place of EN 372.

Prerequisite: By arrangement with instructor and permission of department chair.

ENG 374 - Independent Study: Fiction (3)

An independent writing project, directed by the instructor and intended for advanced students in the fiction track of the Creative Writing minor who will work on a collection of short stories or write a draft of a full-length novel.

Prerequisite: By arrangement with instructor and permission of department chair.

ENG 376 - Advanced Short Story Writing (3)

This course is intended principally for students in the fiction writing track of the Creative Writing minor. Students in this course will develop mastery in their chosen form-short story or novel. This course enables students to work toward a book-length, publishable manuscript. Students will also learn how to write a query letter and search for markets to publish their work.

Prerequisite: ENG 270 Short Story Writing or ENG 271 Advanced Poetry Writing I for the Creative Writing Minor.

ENG 380 - Independent Study (1-3)

Work on a special topic to be arranged with an instructor who will direct this work. Permission of the department chair is granted to qualified English majors on the basis of a written prospectus.

ENG 390 - Capstone (3)

ENG 390 is the capstone for the English major.

ENGR - Engineering

ENGR 125 - Engineering Explorations (1.00 Credit)

Introduction to engineering design process including project management, team work, and organizing outreach events outside university campus. This course utilizes IDEA Lab (makerspace) tools and equipment

Distribution: Engineering. Prerequisite: CSE-125.

ENGR 200 - Computational Methods in Engr (3.00 Credits)

Introduction to computation methods in engineering using MATLAB, C, and PSpice. Drones and robotics systems will be used as the computation platform.

Distribution: Engineering. Prerequisite: CS-112. Offered: Spring Semester All Years.

ENGR 211 - Circuits and Systems with Lab (4.00 Credits)

This course will examine the fundamentals of electric circuits and network analysis, frequency response, operational amplifiers, AM radio, and filters.

Distribution: Engineering. Corequisite: MA-152. Offered: Spring Semester All Years.

ENGR 212 - Digital Design with Lab (4.00 Credits)

This course will examine the number systems; computer arithmetic; analysis and synthesis of combinational and sequential logic circuits, use of a hardware description language; organization and structure of computing systems.

Distribution: Engineering. Prerequisite: CS-113. Offered: Fall Semester All Years.

ENGR 311 - Comp Arch and Design with Lab (4.00 Credits)

Introduction to hardware design of a computer system. Topics include register transfer logic, central processing unit design, microprogramming, ALU design, pipelining, vector processing, micro coded arithmetic, algorithms, I/O organization, memory organization and multiprocessing.

Distribution: Engineering. Prerequisite: ENGR-212. Offered: Fall Semester All Years.

ENGR 313 - Signal Processing with Lab (4.00 Credits)

Introduction to signal and system classification, timed domain analysis, impulse response and stability, Fourier series discrete fast Fourier and Laplace transforms, application to linear circuits and systems, frequency response techniques, discrete-time signals and systems, and sampling.

Distribution: Engineering. Prerequisite: ENGR-211. Corequisite: MA-254. Offered: Spring Semester All Years.

ENGR 314 - Directed Research in ENGR (3.00 Credits)

Research under supervision of an engineering faculty member on a recent technological advancement including literature search, testing, and prototyping (if applicable).

Distribution: Engineering. Prerequisite: ENGR-200 ENGR-211 ENGR-212. Offered: Spring Semester All Years.

ENGR 315 - Microelectronic Circuits with Lab (4.00 Credits)

Analog and digital systems, diode models and circuits, bipolar junction transistors and MOSFETs with emphasis on amplifier integrated circuits, and operational amplifiers.

Distribution: Engineering. Prerequisite: ENGR-211. Offered: Fall Semester All Years.

ENGR 324 - Embedded Systems with Lab (4.00 Credits)

Introduction of modern real-time embedded systems development. Principles of embedded processor architecture operating systems and networking connectivity. Design and optimize in terms of low-power systems with hardware, software, sensors, actuators, controllers, security, and networking performance.

Distribution: Engineering. Prerequisite: CS-112 ENGR-313. Offered: Spring Semester All Years.

ENGR 325 - FPGA Design with Lab (4.00 Credits)

Digital system design using Field Programmable Gate Arrays (FPGAs), HDL simulations, and workbench setups. Xilinx FPGA will be used for simulations.

Distribution: Engineering. Prerequisite: ENGR-212. Offered: Fall Semester All Years.

ENGR 339 - Power Systems with Lab (4.00 Credits)

AC machines: synchronous machines; synchronous motors; induction motors, DC machines, generators, power transformers, transmission line parameters, computation of power flows, single- and three-phase power circuits.

Distribution: Engineering. Prerequisite: ENGR-200 ENGR-315. Offered: Fall Semester All Years.

ENGR 349 - Electromagnet Theory with Lab (4.00 Credits)

Electromagnetic field theory, vectors, static, quasi-static and time-harmonic fields, transmission lines, Maxwell's equations in integral and differential forms, force, energy and power, and plane waves.

Distribution: Engineering. Prerequisite: MA-254. Offered: Fall Semester All Years.

ENGR 350 - Sensors & Robotics with Lab (4.00 Credits)

Fundamentals of programmable logic controllers and microcontrollers for motor control, motion planning, forward and inverse kinematics, trajectory, vision, and data acquisition using various sensors.

Distribution: Engineering. Prerequisite: ENGR-200 ENGR-211 ENGR-212. Offered: Fall Semester All Years.

ENGR 351 - PCB Design with Lab (4.00 Credits)

PCB design process from high level design to final output and manufacture of printed circuit boards, packaging and interconnecting structures, electrical and mechanical design parameters.

Distribution: Engineering. Prerequisite: ENGR-315. Offered: Fall Semester All Years.

ENGR 353 - VLSI Design with Lab (4.00 Credits)

CMOS design and circuits, MOSFET transistor theory, VLSI chip design, circuit simulation and performance estimation, clocking, power consumption, data path subsystems, and finite state machines.

Distribution: Engineering. Prerequisite: ENGR-315. Offered: Spring Semester All Years.

ENGR 411 - Adv Image Proc with Lab (4.00 Credits)

Introduction to theories, algorithms, and practical solutions of digital image/video perception, acquisition, color representation, enhancement, filtering, multi-spectral processing, restoration, segmentation, and compression.

Distribution: Engineering. Prerequisite: ENGR-313. Offered: Spring Semester All Years.

ENGR 412 - Microelectronic Circuits with Lab (4.00 Credits)

Design and analysis of electronic circuits including current mirrors, cascode amplifiers, differential amplifiers, feedback amplifiers, amplifier frequency response, and analog filters.

Distribution: Engineering. Prerequisite: ENGR-211. Offered: Fall Semester All Years.

ENGR 413 - Internship in Engineering (3.00 Credits)

Full-time career-related work experience in industry. Students will work with their on-site supervisor. A final summary report will be required from both student and supervisor.

Distribution: Engineering. Prerequisite: ENGR-200 ENGR-211 ENGR-212. Offered: Fall, Spring, Summer Semesters All Years.

ENGR 417 - Engineering Design Project I (2.00 Credits)

Team projects oriented toward providing experience in project management, prototype design selection, and developing bill of materials towards building a prototype.

Distribution: Engineering. Prerequisite: ENGR-314 ENGR-324. Offered: Fall Semester All Years.

ENGR 418 - Engineering Design Project II (3.00 Credits)

Continuation of Senior Project I focused on implementation, dissemination, and presentation of the project design.

Distribution: Engineering. Prerequisite: ENGR-417. Offered: Spring Semester All Years.

ENGR 419 - Cooperative Studies in Engineering (6.00 Credits)

Full-time career related work experience in industry during one full semester. Students will work with their on-site employer.

Distribution: Engineering. Prerequisite: ENGR-200 ENGR-211 ENGR 212. Offered: Fall Semester All Years.

ENGR 452 - Communication Systems with Lab (4.00 Credits)

Amplitude/angle modulation, probability theory and random processes, pulse code/delta modulation, baseband digital transmission, digital band-pass transmission techniques, wireless channel modeling, cellular systems, and performance analysis.

Distribution: Engineering. Prerequisite: ENGR-349 MA-254. Offered: Spring Semester All Years.

ENGR 454 - Adv Circuit Design with Lab (4.00 Credits)

Analysis and design of analog circuits using integrated bipolar and field effect transistor technologies, DC coupling, testing, and design of computer-aided analog ICs.

Distribution: Engineering. Prerequisite: ENGR-315. Offered: Fall Semester All Years.

ES - Esports

ES 201 - Introduction to eSports Industry (3)

Introduces the foundations of eSports management. Teaches students the various functions of the eSports as a business. Discusses the contemporary issues including the rapid expansion of the sport. Provides a basic understanding the structure and governance of the eSports industry. Topics include: eSports sponsorship, athlete management, intellectual property, media rights, esports and culture, and the intersection of law and business as it relates to the management and regulation of eSports.

ES 401 - Capstone in eSports (3)

Course will synthesize and apply knowledge gained from various perspectives in business and media from prior courses. Students will complete a semester-long individual project in an area of industry interest & will work collectively to produce and promote an on-campus eSports tournament.

EX - Exercise Science

EX 100 - Introduction to Exercise Science (3)

Aspects of a healthy lifestyle including epidemiology, basic cardiovascular and musculoskeletal fitness principles, energy systems, and an introduction to exercise prescription are presented in addition to strategies to promote wellness. This course is intended for students pursuing a degree in exercise science.

A prerequisite to EX 230

EX 101 - Introduction to Personal Fitness & Conditioning (1)

This course includes baseline and subsequent individualized physical fitness assessments, exercise programming, and recreational activities at the William H. Pitt Center, Human Performance Laboratory, and within Fairfield County. Be prepared to exercise on campus and participate in optional hiking, cycling, and other recreational sports and activities in the area. All fitness levels welcome to enroll.

EX 201 - Leadership In Healthcare (1)

This interdisciplinary course is an examination of contemporary leadership styles for healthcare professionals.

Prerequisite: Take EX-100 or HS-200

Offered: Fall & Spring Semesters All Years

Prerequisite: EX 100 or HS 200.

EX 230 - Research & Evaluation for Health Professionals (3)

An introduction to quantitative and qualitative research methods relevant to exercise science. Topics will include the conducting of literature searches, scientific writing style, proper citation, study design, levels of measurement, parametric and non-parametric biostatistics, qualitative data analysis, and ethical considerations in exercise science research.

A prerequisite to EX 240, EX 250, EX 253, EX 255, EX 260, EX 270, and EX 290

Prerequisite: EX 100 Introduction to Exercise Science.

EX 240 - Concepts in Sports Medicine with Lab (4)

This course will provide an introduction to sports medicine concepts as they relate to the exercise science professional. Course content will include emergency action planning and the physiological response to injury as well as the healing process. This course also explores basic functional anatomy along with common injuries and their mechanism and the role of the exercise science professional in the recognition and management of these injuries.

Prerequisite: BI 207/BI 209 Human Anatomy & Physiology II with Lab and EX 230 Research & Evaluation for Health Professionals (pre- or corequisite).

EX 250 - Exercise Physiology with Lab (4)

Presents a workable knowledge of the body's response to physical activity. Exercise metabolism, cardiopulmonary function, adaptations to training, and environmental factors are addressed as well as exercise training guidelines. Assessment, clinical skills, aerobic testing, strength and power testing, and flexibility testing are among lab activities.

A prerequisite to AT 324/AT 324L; EX 320, EX 358, EX 362, EX 363, EX 365, and EX 366

Prerequisite: BI 207/BI 209 Human Anatomy & Physiology II with Lab and EX 230 Research & Evaluation for Health Professionals (pre- or corequisite).

EX 253 - Pathophysiology & Pharmacology (3)

A systematic study of the disease process and disorders commonly seen in an exercise setting. Emphasis is on the effect of disease symptoms, management, and pharmacological agents on physical activity.

A prerequisite to AT 310/AT 310L

Prerequisite: BI 207/BI 209 Human Anatomy & Physiology II with Lab and EX 230 Research & Evaluation for Health Professionals (pre- or corequisite).

EX 255 - Nutritional Aspects of Human Health & Performance (3)

Provides an examination of the six classes of nutrients with strong emphasis on chronic disease prevention and improving athletic performance. Issues concerning dietary supplements, functional foods, and the ethics of food choices are also explored.

EX 260 - Kinesiology with Lab (4)

Investigates basic mechanical and kinesiological principles and their functions, interrelationships, and involvement with the mechanics of human motion.

A prerequisite to AT 242/AT 242L; EX 358, EX 361, and EX 363

Prerequisite: BI 206/BI 208 Human Anatomy & Physiology I with Lab, EX 230 Research & Evaluation for Health Professionals (pre- or corequisite), and PY 100 Elements of Physics.

EX 270 - Neural Control of Human Movement (3)

This course reviews the neural structure and function of human movement. Anatomical, developmental, and physiological foundations are covered during the first part of the course. Progressive concepts and theories of neuroplasticity, motor control, motor learning, and motor skills are presented as they relate to daily activities and sport. The course completes with an introduction to pathological movement conditions and therapeutic strategy.

Prerequisite: BI 206/BI 208 Human Anatomy & Physiology I with Lab and EX 230 Research & Evaluation for Health Professionals (pre- or corequisite).

EX 280 - Coaching Methods (3)

This course investigates effective coaching methods from a physiologic, psychological, and administrative framework. Students will be guided through an analysis of contemporary research and critical evaluation of current practices resulting in the development of an applied personal coaching methodology. In the process this course addresses the promotion of interpersonal skills and the understanding of individual differences as they relate to effective sport coaching practice. *Prerequisite: Take EX-100*
Offered: Spring Semester All Years

Prerequisite: EX 100 Introduction to Exercise Science.

EX 290 - Behavioral Aspects of Exercise (3)

This course will examine psychosocial and behavioral factors that influence physical activity, exercise, and rehabilitation, as well as individual, interpersonal, community, environmental, and policy approaches to promoting physical activity. Additional topics include mental health effects of exercise and sport psychology.

Prerequisite: EX 230 Research & Evaluation for Health Professionals (pre- or corequisite).

EX 299 - Special Topics in Exercise Science (1-3)

In-depth exploration of a specific applied exercise science topic. Course can be repeated if topic varies.

Prerequisite: Instructor approval.

EX 210 - Leadership in Healthcare (1.0)

This interdisciplinary course is an examination of contemporary leadership styles for healthcare professionals.

Prerequisite: EX 100 Introduction to Exercise Science.

EX 320 - Pediatric Exercise Science (3)

This course will provide an introduction to the field of pediatric exercise science. Topic areas will include growth and development in children and adolescents, puberty and endocrine influences on pediatric exercise responses, physical activity on the growing child, resistance training and muscular strength in youth, exercise training for aerobic endurance in children, and patterns of motor development. This course includes a service learning component in addition to a weekly seminar.

Prerequisite: EX 250 Exercise Physiology with Lab.

EX 358 - Exercise & Aging (3)

Examines changes and their effects on performance occurring in the anatomical and physiological systems as adults mature and explores the theory and practice of selecting age-appropriate fitness-promoting activities and function-enhancing activities. This course includes a service learning component including two weekly lecture sessions.

Prerequisite: EX 250 Exercise Physiology with Lab.

EX 361 - Functional Gait Analysis (3)

This course is designed to provide a comprehensive investigation of normal and pathological human locomotion patterns from a biomechanical perspective. Upon completion of this course the student will be proficient in (1) practical gait analysis techniques, (2) analysis of gait patterns, (3) etiology of pathological gait, and (4) the efficacy of certain surgical, orthopedic, or footwear treatments.

Prerequisite: EX 260 Kinesiology with Lab.

EX 362 - Exercise Testing & Prescription with Lab (4)

Reviews the scientific basis and practical concerns related to the assessment of health-related physical fitness and the development of safe, effective, and comprehensive physical-fitness programs. Emphasis is on both proper exercise technique/instruction and the creation of programs utilizing physiological and biomechanical principles and numerous modalities. This course addresses content within the American College of Sports Medicine (ACSM) Certified Exercise Physiologists (CEP) certification examination.

Prerequisite: EX 250 Exercise Physiology with Lab.

EX 363 - Developing Strength & Conditioning Programs with Lab (4)

Reviews the scientific basis and practical concerns related to the development of safe, effective strength and conditioning programs. Emphasis is on both proper exercise technique/instruction and the creation of programs utilizing numerous systems and modalities. This course also addresses content within the National Strength and Conditioning Association (NSCA) Certified Strength and Conditioning Specialist (CSCS) certification examination.

Prerequisite: EX 260 Kinesiology with Lab.

EX 365 - Clinical Exercise Science (3)

Explores diagnostic testing, exercise prescription, and lifestyle modification in health and chronic disease rehabilitation. Primary and secondary prevention and treatment of heart, lung, immune, and metabolic diseases are also addressed.

Prerequisite: EX 250 Exercise Physiology with Lab.

EX 366 - Clinical Rotation (3)

Off-campus clinical rotation surveys the scope of practice that characterizes exercise science. Specifically students visit cardiopulmonary rehabilitation centers, corporate fitness centers, strength and conditioning facilities, and health and wellness programs for special populations including children and geriatric patient/clients.

Prerequisite: EX 250 Exercise Physiology with Lab, CPR/AED for the Healthcare Provider (or equivalent), and proof of up-to-date vaccinations (PPD, measles, mumps, rubella, varicella, Hep B).

EX 367 - Internships in Exercise Science (3)

Internships in Exercise Science provide the student with a hands-on learning experience in either a clinical exercise science or performance-related setting. Internships are available to students in the last two semesters of their undergraduate study and students are required to work 15-20 hours/week under the guidance of an exercise professional.

Prerequisite: EX 260 Kinesiology with Lab; EX 250 Exercise Physiology with Lab.

EX 390 - Planning & Evaluation for Physical Activity & Nutrition Programs (3)

Skills and competencies required for promoting active living and healthy eating in communities will be examined. Specifically, students will examine health promotion program planning, program evaluation, cultural competency, health advocacy, and health communication. Successful active living and healthy eating programs will be drawn upon as examples.

Prerequisite: EX 290 Behavioral Aspects of Exercise.

EX 397 - Practical Application of Exercise Science (3)

This capstone course will require students to apply contemporary research, skills, and knowledge gained in Exercise Science courses and lab to cases and contexts within the professional field of Exercise Science. The course will begin with an overview of management concepts relevant to students in fitness and clinical settings. The majority of the course will require students to work through case studies addressing general exercise prescriptions and programming, considerations of special populations, the exercise scientist's role in allied health care, health and fitness promotion, ethics, and administrative factors.

Distribution: Exercise Science. Prerequisite: Take EX-250 and EX-260. Offered: Spring Semester All Years.

EX 398 - Independent Research in Exercise Science (3)

This mentored research experience is designed to expose and prepare students to conduct independent research in an area related to Exercise Science. Specifically, students will develop a feasible research question, collect experimental data, and disseminate their findings via an oral or written medium.

FMM - Fashion Marketing and Merchandising

FMM 211 - Material Culture in History

This course will explore the cultural history of clothing, examining the way history has shaped the clothes we wear and how they are worn. Out of historical events, revolutions are born, and from revolutions the shape of clothing changes dramatically. This class will analyze the history of costume and fashion in relation to historical, social, and economic context. An emphasis is placed on clothing in relation to ritual, religion, innovation, war, subculture, and gender. The course structure fosters a multi-dimensional dynamic discussion combining lectures, image analysis, research projects, student presentations, object observation, film, and music

FMM 240 - Fashion Marketing

This course will cover the marketing of fashion apparel from the development of the product line and distribution of this line through various channels of distribution to the purchase by the targeted consumer. Advertising and promotional strategies that will educate and attract that consumer to purchase this apparel line will also be covered.

FMM 299 - Special Topics

FMM 311 - Fashion Design for Marketing Management

This course is an in-depth exploration of all aspects of the product development lifecycle, from initial concept through production. As an ongoing term project, students will practice each step of the design process, to culminate in their own unique collection. First steps include developing customer profiles, color forecasting, sourcing, and trend research. Next, market levels will be studied, and students will create a fabric story and mood board. Components of design, such as silhouette, proportion and line, will also be examined. Coursework includes figure and technical illustration workshops, as well as pattern making, draping and grading demonstrations. A creative journal/sketchbook will be maintained throughout the semester.

FMM 345 - Fashion Buying

Examines today's retail environment, a fashion buyer's function, and day-to-day business in the fashion industry. Buying for different types of stores will be explored, along with forecasting, positioning, and emerging retail formats. Market research, distribution of products, market sources, and financing will also be examined. A key component of this course is "merchandise math," or the mathematical concepts and calculations necessary for interpreting sales data and strategic planning. Basic and applicable functions of Microsoft Excel will be practiced.

FMM 350 - Fashion Brand Marketing

This course encompasses the history, development, and process of brand marketing in the fashion industry. The array of national, designer, private label, store and corporate brands, their background, and developmental

strategies will be covered. Through the understanding of brand elements, brand equity, and brand communications, the student will create a positioning brief, and launch his or her own fashion brand as a final project. In addition, this course will examine brand global expansion through such vehicles as licensing and franchising.

FMM 360 - Marketing Integration: Textile/Fashion

This course encompasses the processes involved in global supply chain management and integration from a raw material base to finished apparel. By understanding the building blocks of fiber, yarn, weaving, knitting and color penetration systems, the student will understand what is essential in making decisions concerning aesthetics, cost, care and wearability of fashion apparel. This course is essential for any student who wishes to enter and manage in the fields of apparel merchandising, marketing retailing, and design.

FMM 392 - FMM Internship

Students are directly involved in various dimensions of fashion marketing. Emphasis is on the practical application of fashion principles and skills, which are experienced through hands-on applications. On-site business professionals will supervise students.

FN - Finance

FN 215 - Financial Management (3)

Provides an overview of the principles and techniques used in financial management and an introduction to financial markets. Topics include time value of money, measures of risk, models for pricing bonds and stocks, financial analysis, capital structure, cost of capital, capital budgeting, and working capital management. Students are introduced to financial problem-solving using Microsoft Excel.

A prerequisite to AC/FN 441; FN 315, FN 318, FN 351, FN 416, FN 440, and FN 442; FN/SM 243; MGT 304 and MGT 373

Prerequisite: AC 221 Financial Accounting & Reporting.

FN FN 281 - Private Wealth Management

This course focuses on the process of personal wealth management. Topics include: establishing personal financial goals, determining risk tolerance, applying efficient frontier analysis, using portfolio concepts for asset allocation, involving risk management techniques, using Monte Carlo simulation to examine uncertainty. Students should be able to implement a plan for their financial goals, as well as plans for others, including possible future clients.

FN/SM 243 - Sport Finance (3)

Examines the application of financial methodology for sport enterprises. Emphasis is on understanding the important sources of revenue (e.g., ticket sales, sponsorships) and media as well as the principal expenses of managing a professional team (e.g., salaries). The course also provides insight to the financing of stadiums and arenas and the valuation of teams.

Prerequisite: AC 221 Financial Accounting & Reporting and FN 215 Financial Management.

FN 299 - Special Topics in Finance

Designates new or occasional course material that may or may not become part of the department's permanent offerings. This course addresses a timely topic, consistent with a faculty member's particular interest. The most recent focus of this course material is on financial risk management.

FN 304 - Money & Financial Institutions

This course overviews the global financial markets and institutions. It examines the regulatory framework and asset/liability management at commercial banks and other financial institutions. It analyzes the significance of money, credit, and interest rates as well as the impact of monetary policy on the economy. Students learn about assessment and management of various types of risks faced by global financial institutions.

FN 315 - Investments (3)

Introduces students to the various types of investment products and markets both in the United States and globally. Topics include valuation techniques and risk measurements for common stocks, mutual funds, and bonds; use of options; socially responsible investing; and expected returns for each type of investment.

Prerequisite: FN 215 Financial Management.

FN 318 - Current Problems in Finance (3)

Seminar on special current topics in finance. Open to seniors majoring in Finance and to seniors majoring in Business Economics, Business, and Accounting with permission of the Finance department.

Prerequisite: FN 215 Financial Management or departmental permission.

FN 320 - Personal Finance (3)

Examines the financial planning, management, and investment needs of individuals and households as they pursue their financial goals. Topics include: personal budgeting, credit buying, banking and borrowing, home ownership, insurance, and investing. Upon successful completion of the course, students should have gained a basic understanding as to how to (1) prepare their personal financial plan or program; (2) budget and control their income and expenses; (3) economically and wisely purchase major expense items such as a house or an automobile; (4) purchase needed insurance thoughtfully and purposefully; and (5) begin a program for retirement and investments so that their personal financial objectives can be reached.

FN 342 - Student Managed Investment Fund (1.00 Credit(s))

This one credit Student Management Investment Fund course provides an opportunity for dedicated and passionate students of investment management an opportunity to earn credits while working to manage the fund. Students learn the basics of asset allocation, research and present securities for investment consideration, track investments and develop recommendations for increasing, reducing or closing positions. Use of SP Capital IQ for industry research and financial analysis and Bloomberg data are required to successfully complete the course.

Distribution: Finance. Offered: Fall & Spring Semesters All Years.

FN 351 - Corporate Finance

Emphasizes corporate financial management. Covers financial analysis, working capital management, cost of capital, capital budgeting, valuation, and capital structure. Includes extensive use of financial models.

Prerequisite: FN 215 Financial Management.

FN 360 - Compliance & Risk Management

Students develop an understanding of the five key operational risk issues in financial markets, in addition students will gain an understanding of the often competing and overlapping regulatory oversight function of the operational risk

FN 395 - Fixed Income Securities (3)

This course provides an understanding of the nature of the fixed income securities and financial instruments including discount bonds, coupon bonds, forwards and. The course will focus on yield curve construction, duration and convexity and formal term structure models. In addition, the course will cover options and derivatives such as options of fixed-income securities and interest rate, interest rate swaps including caps, and floors. The goal of the course is to learn how investors measure and manage risk on a disaggregated and aggregated basis. The course will cover interest rate risk, and other risks in fixed income securities such as credit risk, illiquidity risk, and the risks resulting from securitization.

Prerequisite: FN 215 Financial Management.

AC/FN 441 - Financial Analysis (3)

Develops students' ability to analyze financial statements to determine both asset value and earning capacity of the public corporation's securities. Requires an understanding of the positive and negative effects of operating and financial leverage, as well as ratio analysis as it concerns the capitalization, stock, and bond markets. Proof of students' ability lies in the preparation of an analysis of annual report of a major publicly held corporation.

Prerequisite: FN 215 Financial Management.

FN 402 - Practical Python with Applications in Finance

Python is a very powerful programming language that is widely used in the financial industry. This course will equip students with the programming knowledge and skills in Python to solve practical problems in quantitative finance. Specifically, students will learn how to conduct time-series and cross-sectional analyses with real-world financial data, apply and implement financial models in Python, formulate and code up simple algorithmic trading strategies, and eventually evaluate that strategy's performance and test its robustness. This course includes multiple hands-on coding exercises and projects with a focus on financial applications. Some familiarity with basic statistical and programming (in any language) concepts is necessary.

FN 414 - Alternative Investments

This course examines key themes and issues related to investing in alternative assets. The course will focus on the investment process and benefits of exploring the world of alternative investments such as investments on hedge funds, private equity, venture capital funds, real

estate, and commodities, either directly or through funds of funds. The course will combine theory with practical exercises, allowing students to get a “hands-on” experience. Students will learn about the return-risk characteristics of alternative investments, what attributes to their appeal, and how to construct a portfolio combining alternative investments with conventional asset classes.

FN 415 - Portfolio Management

This course is designed to provide a sound foundation for the theory and practice of modern portfolio management. Topics include portfolio analysis, capital asset pricing theory, performance measurement, efficient market hypothesis, standard mean-variance theory, and dynamic asset allocation. The goal of this course is to acquaint students with the perspectives and techniques used to solve practical asset allocation problems of institutional investors such as pension funds, mutual funds, hedge funds, and sovereign wealth funds.

FN 416 - International Financial Management (3)

Explores the principles of financial management from an international perspective. The course provides a broad introduction to the operations of international financial markets and instruments. Students develop an understanding of the workings of international financial markets, the risks of doing business in the international arena, and management of exchange risk exposure. Among the topics covered are foreign exchange markets, foreign exchange risk, management of exchange risk exposure, impact of different exchange rates, taxation systems and inflation rates on financial decisions, project evaluation, and interaction among various national financial markets.

Prerequisite: FN 215 Financial Management and FN 315 Investments or FN 351 Corporate Finance.

FN 440 - Financial Modeling (3)

Students develop financial modeling skills with Microsoft Excel. Students will learn to apply the concepts they have learned in the introductory courses into a spreadsheet model framework. The topics include valuation of cash flows, equity and fixed income securities, retirement planning, graphing in Excel, project cash flows calculation, capital budgeting and NPV analysis, sensitivity analysis, financial ratio analysis, Monte Carlo simulations, cost of equity and beta estimation, and portfolio optimization. The course is application oriented and will be helpful for a variety of jobs in corporate finance and banking.

Prerequisite: FN 215 Financial Management and FN 315 Investments or FN 351 Corporate Finance.

FN 441 - Alternative Investments

This course examines key themes and issues related to investing in alternative assets. The course will focus on the investment process and benefits of exploring the world of alternative investments such as investments on hedge funds, private equity, venture capital funds, real estate, and commodities, either directly or through funds of funds. The course will combine theory with practical exercises, allowing students to get a “hands-on” experience. Students will learn about the return-risk characteristics of alternative investments, what attributes to their appeal, and how to construct a portfolio combining alternative investments with conventional asset classes.

FN 442 - Derivatives & Risk Management (3)

Designed to help undergraduate students understand the basic derivative markets such as forward, futures, options, and swap markets. Key concepts needed to price these basic claims, such as the law of one price, the cash and carry arbitrage, and the put call parity, are introduced and explained. Explores the pricing of these claims, as well as arbitrage and hedging in these markets.

Prerequisite: FN 215 Financial Management.

FN 450 - Investment Management Capstone (3)

This course is required for students selected in the Finance department's Investment Management program. The course parallels the curriculum found in the Chartered Financial Analysts (CFA) Level I examination. Topics include ethics and professional standards, economics, financial statement analysis, equity and fixed income analysis, quantitative techniques, derivatives, and portfolio management. Completion of the course assists the students in preparing for the CFA Level I examination.

Prerequisite: FN 315 Investments and instructor permission.

FR - French

FR 101/102 - Beginning French I and II (3 CR each)

Intended for beginning-level students. Emphasis on building communicative competence and oral proficiency. All four skill areas covered including reading, writing, listening, and speaking. An appreciation of French and Francophone cultures integral to course. Multimedia tools (videos and Internet sources) enhance course.

FR 102 a prerequisite to FR 151

FR 107/108 - Beginning French Language & Culture in France I and II (3-4 CR each)

Beginning level language courses taken in France. Students placed according to their level. Focus on oral and written expressions. Study of French culture integral to course.

FR 151/152 - Intermediate French I and II (3 CR each)

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of grammar. Readings, vocabulary building, composition, listening comprehension, and conversation. French and Francophone cultures integral to course. Multimedia tools (CDs, Internet sources) enhance course.

FR 152 a prerequisite to FR 201, FR 203, FR 204, and FR 282

Prerequisite: FR 102 Beginning French II or placement for FR 151; FR 151 Intermediate French I or placement for FR 152.

FR 157/158 - Intermediate French Language & Culture in France I and II (3-4 CR each)

Intermediate-level language courses taken in France. Students placed according to their level. Continued development of oral and written expression. Study of French culture integral to course.

FR 201/202 - Topics in French Language & Culture I and II (3 CR each)

Designed to fortify proficiency in the various skill areas (reading, writing, listening, and speaking) and cultural awareness. Prepares students for upper-division literature and culture classes. Includes complex grammar review and extensive writing in various styles and genres; cultural and literary readings; and oral expression. Audiovisual and/or technological materials incorporated into class.

FR 201/202 a prerequisite to FR 251, FR 252, FR 280, FR 281, FR 283, FR 299, FR 315, FR 316, FR 353-359, FR 363-369, FR 371, FR 372, and FR 373-379

Prerequisite: FR 152 Intermediate French II or placement for FR 201; FR 201 Topics in French Language I for or placement FR 202.

FR 203 - Advanced Conversation & Contemporary Issues (3)

Development of advanced proficiency and communicative competence through discussion of current events and contemporary issues. Varied readings (newspapers, magazines, technological sources) and activities (debates, skits).

Prerequisite: FR 152 Intermediate French II or placement.

FR 204 - Explorations in French Film (3)

Key films in French Cinema. Depending on semester, either overview of tradition or focus on particular period/movement. Cultural and historical contexts of films. Improvement in critical and linguistic skills.

Prerequisite: FR 152 Intermediate French II.

FR 251 - Early French Writers (3)

A survey of representative literary texts from the Middle Ages through the seventeenth century. Discussion of historical and cultural context. Several literary genres (novel, poetry, drama, etc.) treated. Critical techniques introduced. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 252 - French & Francophone Writers Then & Now (3)

A survey of representative literary texts from the eighteenth century to the present. Discussion of historical and cultural context. Both canonical and lesser-known works in several literary genres (novel, poetry, drama, autobiography, etc.) treated. Critical techniques introduced. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 280 - French Civilization & Culture (3)

Promotes understanding of the history and culture of the French with emphasis on arts, politics, language, thought, and lifestyle. Readings, films, the visual arts, and music are incorporated. Audiovisual and/or technological materials incorporated into class. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 281 - Francophone Civilization & Culture (3)

Content varies. Promotes understanding of Francophone peoples through their histories, cultures, politics, religious beliefs, and lifestyles. Readings, films, the visual arts, and music are incorporated. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 282 - Business French (3)

Focuses on commercial French style and cultural aspects of business life in France and the Francophone world. Emphasis on commercial vocabulary and idioms most used in business situations. Taught in French.

Prerequisite: FR 151 Intermediate French I.

FR 283 - Franco-Italian Connections (3)

Content varies. Comparative course focusing on historical and cultural connections and contrasts between France and Italy. May treat particular period (war years, contemporary times). Can include literature, film, music, and the visual arts. Taught in English with language-specific assignments for foreign language students.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 299 - Special Topics in French (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 315 - Paris (3)

Focuses on culture of Paris through art, history, literature, music, film, and popular culture. May treat particular period (Paris during the Revolution, contemporary Paris). May include issues such as Paris as cultural center, expatriates in Paris, and the future of the city. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 316 - Quebec (3)

Focuses on Quebec region in its historical and cultural contexts. Includes issues such as national identity, language, and the relationship to France. Taught in French.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 353-359 - Topics in French/Francophone Film (3-4 CR each)

Content varies. Study of particular film directors, movements (Poetic Realism, New Wave), periods, and genres.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 363-369 - Topics in French/Francophone Culture (3-4 CR each)

Content varies. Study of particular periods (French Revolution), locations, movements, and representative individuals (politicians, artists).

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 371 - Literary Travelers, Exiles, & Expatriates (3)

Treats literary representations of travel, exile, and expatriation. Emphasis on works in a variety of genres including novel, autobiography, and letters. Issues include life abroad and life in exile, bicultural and multicultural identity, displacement and subjectivity, bilingualism, and confrontations with foreign cultures. May treat specific period.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 372 - Women Writers (3)

Treats literary works by French and Francophone women in a variety of genres including novel, autobiography, drama, poetry, and letters. Discussion of feminist literary criticism and theory. May treat specific period.

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 373-379 - Topics in French/Francophone Literature (3-4 CR each)

Content varies. Study of particular authors, movements (surrealism), periods, and genres (novel, drama).

Prerequisite: FR 201/202 Topics in French Language & Culture I and II or placement.

FR 399 - Independent Study (1-3)

Work on special topic to be arranged with instructor who directs work. Permission of the department chair is granted to qualified students in French on basis of written prospectus. By special arrangement.

FYS - First Year Seminar

FYS 125 - First Year Seminar (3)

First Year Seminars are designed and taught mainly by full-time faculty on topics that are pertinent to the lives of students, the world in which they live, and the interests of faculty. The seminars are writing and oral communications intensive and introduce students to college-level research skills and principles of information literacy. First Year Seminars are capped at 18 students to ensure that instructors can devote adequate attention to the content of their courses and the development of the proficiencies and skills of each student.

FYWS 125 - First Year Writing Seminar (3)

In this course, students learn about and use the writing process to reflect on and develop their communication skills, with particular attention to

the academic and professional forms they will use in and outside of the university.

GDD - Game Design and Development

GDD 125 - GDD Explorations

This course provides a hands-on introduction to the Game Design and Development program and allows students to learn about the program in more detail by completing hands-on learning exercises in a laboratory environment. Designing the vector gaming environment; storyboarding; tween and frame-by-frame animation; using functions to control animation timelines; using random number functions to instantiate digital objects; artifact movement utilizing vector plot points.

GDD 271 - Advanced Computer Gaming

An object-oriented approach to programming digital objects using Flash and Action Script 3.0. These programming techniques will be applied to both arcade and adventure games.

GDD 272 - OOP WITH C# AND GAMES

An object-oriented approach to computer graphics using C#. Topics covered will include classes, instantiation, event listeners, polymorphism, encapsulation, event handlers, functions and methods, and basic game logic.

GDD 273 - 3D DIGITAL OBJECT CREATION

Video game development involves many different team members. Two of the most essential skills are programming and 3D animated character development. CS 273 addresses the latter. Using Autodesk Maya (or a similar platform), students will learn the fundamentals to develop working animated game characters. Each student will also have the opportunity to utilize the markerless motion capture laboratory. In this lab students track human action for modeling character movement. The eighteen-camera motion-capture system converts to Organic Motion code that can be exported to the Maya platform. From there students create their characters for use in the Unity 3D game development platform.

GDD 371 - ADVANCED GAME PROGRAMMING

A game-oriented programming course focusing on advanced graphics techniques using OpenGL and/or DirectX.

GDD 372 - BUILDING GAMES

In this class we explore how logic and creativity work together in the well-designed computer game. Topics include genres of games, character development and gameplay, new and developing gaming concepts, creation and use of gaming engines, the role of sound and music, and teaching a game to think.

GDD GDD 417 - Senior Project Design

This senior project design course is offered in the fall of the senior year. Students work with senior capstone project coordinator and a faculty mentor to define an important problem in their discipline, and propose to implement a solution as a team.

GDD 418 - SENIOR PROJECT IMPLEMENTATION

This senior project implementation course is offered in the spring of the senior year. Students work with a faculty mentor to implement their project. Students are required to assess requirements, design and develop the software and write detailed documentation that illustrates and supports design choices. Test plans, usability testing and prototypes are also required. Students present their complete, working projects to the department faculty and public as the culmination of this project.

GE - German**GE 101 - Beginning German I (3.00 Credit(s))**

The main objective of this course is level I proficiency German, largely stressing survival topics with attention also given to different aspects of cultures in German.

Distribution: Foreign Languages and Cultures.

GE 102 - Beginning German II (3.00 Credit(s))

This course is a continuation of GE 101 Beginning German I.

Distribution: Foreign Languages and Cultures. Prerequisite: Take GE-101. Offered: As Needed Contact Department.

GL - Gaelic**GL 107/108 - Beginning Irish I and II (3 CR each)**

This course sequence will introduce students to the Irish Language with an emphasis on developing speaking, listening, reading, and writing skills at a basic level. Students will gain exposure to a broad range of Irish vocabulary, grammar patterns, and major tenses. Finally, through this introduction to the Irish language students will be exposed to Irish culture and history.

GS - Global Studies**GS 101 - Introduction to Global Studies (3)**

The course is designed to introduce students to the field of global studies by promoting an understanding of the interconnectedness and interdependence of global processes. Global studies imparts an appreciation for the complexity of world societies and broadens our understanding of challenges through an interdisciplinary approach to twenty-first century problems. The course approach is interdisciplinary with special attention given to political, economic, social, historical, and cultural patterns that mark globalization processes. Specific topics to be explored are the environment, migration, human rights, peace, conflict, global trade, and economic linkages.

GS 150 - World Geography (3)

Surveys the wide spectrum of topics that compose modern physical and cultural geography. Topics include earth/sun relationships, atmosphere, landforms, hydrology, biosphere, and energy flow. Also, population,

culture, religion, politics, economics, agriculture, and industrial/urbanization. Overview concepts include mapping, regions, and environmental issues.

GS 270 - Global Health Systems (3)

This course allows students to examine social, economic, and political determinants of healthcare systems and the evolution of various systems around the world over the last few decades. Students will compare theories of health policy and priorities, models of government intervention in providing healthcare and insurance, financing, planning, education, and training.

GS 275 - Culture & Global Health (3)

This course will introduce the concept of cultural perceptions about health and disease in diverse communities worldwide, and how to develop cultural awareness and humility in healthcare contexts. We will explore how culture may impact health beliefs, health status, and access to health services. We will also consider the ideas of health and social justice and health as a human right in developing, middle income, and developed nations. Relevant sociocultural theories will also be addressed.

GS 301 - Senior Seminar (3)

Advanced study of a particular theme or topic in a seminar setting. Required capstone course for Global Studies majors.

Prerequisite: Senior standing or permission from program director.

GS 302 - Senior Thesis (3.00 Credit(s))

Distribution: Govt Pol and Global Studies. Offered: As Needed Contact Department.

HC - Haitian Creole**HC 101/102 - Beginning Haitian Creole I and II (3 CR each)**

This course sequence will introduce students to the Haitian Creole language. The overall objective is to help develop student proficiency in speaking, reading, writing, and listening skills in Haitian Creole. The courses will be thematically focused for students interested in working in development projects and in post-earthquake disaster relief. Also, it may have a service learning component. In addition to the instruction of Haitian Creole, students will become acquainted with Haitian history, culture, and society.

HI - History**HI 100 - Western Civilization I, Ancient to 1500: Citizenship, Democracy, & Culture (3)**

This course introduces the major elements of Western civilization from the ancient world to the Italian Renaissance, placing special emphasis on the Greco-Roman and Judeo-Christian traditions. Major themes include the rise of republican forms of government, the rule of law, the Western

conceptions of freedom, citizenship, democracy, human dignity, the autonomy of reason, and Greco-Roman and Judeo-Christian values.

HI 102 - Western Civilization II, Since 1500: Economies, Sciences, & Politics (3)

This course will provide students with an introduction to the historical development of Western civilization in the last 500 years. The themes and topics emphasized in the course will lead to a greater understanding of how this historical development occurred. The focus will be on the development of economics, the sciences, and social and political ideas.

HI 203 - Medicine, Disease & History (3)

This course is a survey of the history of medicine beginning with the Greeks to the 21st century with an emphasis on how disease may have influenced historical events.

HI 204 - History of Medicine in China (3)

This course will trace the origins and development of Chinese healing from antiquity until the nineteenth century, and then examine how Western medicine was introduced to China and how the subsequent clash between the two forms of medicine led to their uneasy co-existence today, both in China and in countries like the U.S.

HI 207 - History of Latin America to 1826 (3)

Examines the Spanish and Portuguese conquest and empire building, culture, and society during the colonial age and the disintegration of the empires by 1826.

Prerequisite: HI 100 or HI 102.

HI 208 - History of Latin America Since 1826 (3)

Examines the history of Latin America from the wars of independence to the twenty-first century. Topics include Latin America and the world economy, twentieth-century revolutions, the emergence of mass politics, the changing role of religion, and foreign relations.

Prerequisite: HI 100 or HI 102.

HI 209 - The U.S. & Latin America through History (3)

Traces the connections between the two regions from the colonial period to the present. Topics covered include political, economic and diplomatic relations, border conflicts, immigration, and questions of identity.

Prerequisite: HI 100 or HI 102.

HI 211 - Discovery & Conquest 1492-1598 (3)

Examines the major themes of the European expansion beginning in the early Middle Ages to the Portuguese and Spanish conquest and colonization of the Americas and Asia. Topics include European and Indian worldviews, biological and demographic consequences of contact, development of a conquest culture in the Americas, and the role of missionaries and conquistadors. Does not fulfill requirement as a Latin American elective.

Prerequisite: HI 100 or HI 102.

HI 212 - Contemporary Latin America (3)

An in-depth study of the changes in Latin America from the mid-twentieth century to the present. Examines the major issues from the Mexican Revolution of 1910 to the Cuban Revolution of 1959 as well as current problems. Topics include dependency, Marxism, Peronism, neo-liberalism, and social and political change in the region.

Prerequisite: HI 100 or HI 102.

HI 214 - French Revolution & Napoleon (3)

Traces the path of the French Revolution from its origins through each of its political phases from 1789 to 1799. It culminates with the rise of Napoleon Bonaparte, his achievements and failures, and the end of the empire in 1815.

Prerequisite: HI 100 or HI 102.

HI 216 - Princes to Peasants (3)

This course is designed to investigate the field of European Social History, which studies popular culture, daily life, and social class. The course follows the history of the individual, family, community, church and state in Europe between the late Medieval to the nineteenth century. A comparison of the variety of families and social classes must examine the issues of function, leadership, gender, marriage, sex, childhood, the body, and deviant behavior.

Prerequisite: HI 100 or HI 102.

HI 218 - Modern France (3)

Follows the political, economic, and religious developments from 1789 to the 1960s. It examines the last monarchy under Louis Philippe, the rise of democracy by 1848, numerous political factions, and World War I and II, culminating in the person of Charles de Gaulle. Attention is given to continuity and change to understand the character of France.

Prerequisite: HI 100 or HI 102.

HI 222 - United States History to 1865 (3)

Examines American development from the period of exploration to the conclusion of the Civil War. Major themes include colonial society, the Revolution, nineteenth-century expansion and economic growth, slavery, and the War for the Union.

HI 223 - United States History Since 1865 (3)

Analyzes United States development from Reconstruction to the present, examining major social, political, economic, and foreign policy developments and their impact on American life.

HI 224 - Society in Colonial America (3)

This course examines the colonial period in the history of the United States, beginning with precontact Native American and European societies and concluding with the peace with Britain that ended the Revolutionary War. Particular attention will be paid to the motivations carrying men and women to North America, the interaction between

indigenous peoples and colonists, the political and social structure of colonial communities, the development of racial slavery, and the ways in which communities reflected or rejected European society.

HI 225 - African-American History (3)

Examines the forced migration of Africans to America, the condition and nature of slavery, abolitionism, emancipation, twilight zone of freedom, growth of civil rights, and Black Power movements.

Prerequisite: HI 100 or HI 102.

HI The American Revolution - HI 226 (3)

This course examines the causes of the American Revolution in the context of economic, ideological and political change throughout the 18th century. Students consider the impact that the rebellion had on different kinds of Americans and whether the rhetoric of the Revolution fueled demands for change among these groups once the war ended. They will evaluate whether the American Revolution was a radical act in our history.

HI 227 - History of American Capitalism (3)

This course examines the history of American capitalism, with a focus on the affects and effects of capitalist growth. Topics covered include American labor, finance, and the accompanying social and political forces that helped to shape American capitalism from its inception to present.

Prerequisite: HI 100 or HI 102.

HI 230 - The Civil War (3)

Examines an epic and transformative period in U.S. history from a multidimensional perspective. The clash of arms, military and civilian leaders, lives of ordinary soldiers and civilians, politics and economies of the Union and Confederacy, and "new birth of freedom" that ended slavery are reviewed and discussed.

Prerequisite: HI 100 or HI 102.

HI 231 - The Cold War & American Society (3)

Explores the roots and development of the Cold War between the United States and U.S.S.R. (1946-91); its impact on American social, political, economic, and cultural values and practices; and some of its long-term consequences for the nation's society and place in the world.

Prerequisite: HI 100 or HI 102.

HI 232 - Reconstruction & Post-Civil War America (3)

The purpose of this course is to examine the Reconstruction era (1865-1877) in American history. This period had tremendous political and social consequences on the country. Students will read, discuss, and write about social, economic, political, and cultural aspects of the Reconstruction years with the goal of deepening your understanding of its significance in our nation's history. Our analysis will begin long before Reconstruction itself and move past it as well into the twentieth century.

Prerequisite: HI 100 or HI 102.

HI 233 - Gilded Age & Progressive Era (3)

This course will allow students to journey into the historical periods of the Gilded Age and Progressive Era in American history. In this course, students will read a broad range of historical interpretations of the significant events of these periods, as well as immerse themselves in primary sources meant to illuminate the overall study.

Prerequisite: HI 100 or HI 102.

HI 234 - Catholics in American Society (3)

This course focuses on the social and cultural history of American Catholics beginning with the earliest contact between Native Americans and European colonists to the relationship between Catholics and other religious groups, as well as within American Catholic communities up to the present day.

Prerequisite: HI 100 or HI 102.

HI 235 - Women in American Society (3)

This course examines the challenges faced by women in America from the colonial period to the present, as well as their contributions to the formation of the United States and our history. We will pay particular attention to the ways in which gender has been historically constructed in American culture.

HI 236 - History of the Arab World I: From Muhammad to the Ottoman Empire (3)

A study of the rise of Islam and the emergence of the Arabs as a world power. Discussion focuses on the achievements of Muhammad, the institution of the caliphate, Umayyad and Abbasid empires, Crusades, and decline of Arab influence in the Near East under the pressure of Turkish expansion.

Prerequisite: HI 100 or HI 102.

HI 237 - American Environmental History (3)

This course considers the way in which Americans have imagined, experienced, and debated the natural world from European colonists' ideas about hunting, fishing, and farming to the political debates about climate change in the early twenty-first century.

HI 238 - The Modern Middle East (3)

This course introduces students to some of the major political, socioeconomic, and cultural factors which led to challenges and conflicts in the Middle East during the 19th and 20th centuries. It ends with discussions on contemporary Middle Eastern affairs.

Prerequisite: HI 100 or HI 102.

HI 239 - Women in the Middle East (3)

By focusing on women's activist movements throughout history, this course examines the social changes brought about by Muslim and non-Muslim women who claimed their rights within their family and in society and politics.

Prerequisite: HI 100 or HI 102.

HI 242 - Ancient Greek History (3)

This course surveys ancient Greek history from the Late Bronze Age to the outbreak of the Peloponnesian War (1500 BC-431 BC) and the emergence of the Greek polis, the development of Athenian Democracy, the growth of Athenian Imperialism, and the rivalry between Athens.

Prerequisite: HI 100 or HI 102.

HI 243 - Golden Age of Greece (3)

This course examines the development of high culture in archaic and classical Greece; art, literature, philosophy, religion, and democracy of Athens from seventh century to death of Socrates and Solon, Aeschylus, Sophocles, Euripides, the Sophists, Thucydides, and Aristophanes. Topics include role of Pericles in Athenian democracy, imperialism, and Peloponnesian War.

Prerequisite: HI 100 or HI 102.

HI 244 - Thucydides & the Peloponnesian War (3)

This course is a seminar that examines the Peloponnesian War and the brilliant historian who reported it. The class begins with ancient Greek history and the institutions of the polis and discussion of topics connected with the Great War itself, such as Periclean strategy, the plague in Athens, civil war in Corcyra, Pylos affair, Sicilian expedition, and oligarchic revolution.

Prerequisite: HI 100 or HI 102.

HI 245 - Alexander the Great (3)

This seminar will examine Macedonian background, accession, military career, and historical significance of Philip II's son Alexander III, analysis of sources, and historiographical tradition. Students can form a personal estimate of Alexander based on their understanding of the sources.

Prerequisite: HI 100.

HI 246 - Roman History: The Republic (3)

This course surveys Roman history from the legendary founding of Rome to the death of Julius Caesar (753 BC-44 BC) and the development of republican political institutions, the nature of Roman Imperialism, Rome's encounter with Greek culture, and the fall of the Republic.

Prerequisite: HI 100 or HI 102.

HI 248 - Roman Empire & Christianity (3)

This course surveys Roman history from the death of Julius Caesar to the fall of the Roman Empire in the west (44 BC-476 AD). The class also examines the rise of Christianity and how it went from being a persecuted Jewish sect to the state religion of Rome; considers the relationship between Paganism and Christianity in late antiquity; and examines the reasons for the decline and fall of the western empire.

Prerequisite: HI 100 or HI 102.

HI 251 - Historical Coastal Communities: 1500 to Present (3)

This course studies interactions between humans and environments on land and sea in New England, Newfoundland, Ireland, Scotland, England, Norway, the Netherlands, as they fished and traded over long distances, creating vibrant cultures.

Prerequisite: HI 100 or HI 102.

HI 252 - Medieval Europe (3)

Topics include Feudalism and Christendom, Islam and the Crusades, the Carolingian Empire, and the rise of national states. Important elements include art and architecture, cosmology and alchemy, hierarchy, the rise of the early Renaissance, as well as different types of work and "callings."

Prerequisite: HI 100 or HI 102.

HI 253 - From Rembrandt to Van Gogh (3)

This course examines the history of the Low Countries through art and written texts from 1400 to 1850. It also compares and contrasts the development of Flemish and Dutch art and literature and shows how religion played an important part in the formation of early-modern Low-Countries' culture.

Prerequisite: HI 100 or HI 102.

HI 254 - The Renaissance & Reformation (3)

A study of the transition from medieval to modern society through investigation of political, social, economic, religious, and cultural factors involved in the change.

Prerequisite: HI 100 or HI 102.

HI 255 - Celtic & Irish History (3)

This course surveys Celts, from ancient continental European tribes through Medieval to modern Ireland. Focus will be on several debates on emotive events, such as Cromwell's conquest, Irish rebellions, the Famine, independence, culture, and identity. Does not fulfill requirement as a European elective.

Prerequisite: HI 100 or HI 102.

HI 256 - Thousands are Sailing: The Irish at Home & Abroad 1798-1922 (3)

This course examines the complex cultural, political, and economic relationship between the Irish in America and those at home from the Irish Rebellion of 1798 to the creation of the Irish Free State.

HI 257 - History & Memory in Modern Ireland (3)

This course examines collective memory in relation to official history and considers the place of landscape, tourism, poetry, and song as it reflects on Irish cultural identity.

HI 258 - Britain & the Empire 1714-1918 (3)

This course will examine the history of the British Empire beginning with the earliest English explorations overseas and concluding with World War I and its impact on the future of imperialism worldwide.

HI 281 - Introduction to the Civilization of East Asia (3)

An overview of the history of China and Japan from prehistoric times to the late traditional period (approximately 1800). Intended to enhance students' appreciation of the uniqueness and coherence of these two ancient civilizations.

Prerequisite: HI 100 or HI 102.

HI 283 - Late Imperial China (3)

This course examines the last two dynasties in China, the Ming and Qing. This course will focus on the intertwined evolution of economy, culture and state, and the history of attempts by the imperial center to control the borderlands and extend imperial power.

Prerequisite: HI 100 or HI 102.

HI 285 - Modern China, 1921 to Present (3)

Examines the history of twentieth-century China focusing on the rise to power of the Chinese Communist Party and its efforts to transform China into a modern nation.

Prerequisite: HI 100 or HI 102.

HI 299 - Special Topics in History (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics.

Prerequisite: HI 100 or HI 102.

HI 300 - The Vietnam War (3)

A survey of the war in Vietnam emphasizing the colonial origins of the conflict, United States and Vietnamese strategies, and the causes of the American defeat. Does not fulfill requirement as an East Asian elective.

Prerequisite: HI 100 or HI 102.

HI 301 - Historical Method & Criticism (3)

An introduction to the history of historical thinking and writing, the contemporary field of historical methods and theories, and the research tools and skills necessary for the study of history and the writing of papers and essays.

A prerequisite to HI 397

Prerequisite: HI 100 or HI 102.

HI 322 - U.S. Foreign Policy (3)

Evolution and expansion of American foreign policy from the Revolutionary period to the present. Analyzes the aims of foreign policy, influences upon it, and its impact on the nation's domestic politics.

Prerequisite: HI 100 or HI 102.

HI 328 - The Immigrant Experience (3)

A comparative historical study of American immigration focusing on motives for immigration, patterns of settlement, adjustment, and subsequent generational experience of successive immigrant groups.

HI 355 - The Jesuits & the World (3)

This course will explore how the Jesuits launched a global mission movement on the backs of the early modern European empires bringing a co-mixture of Christianity and other forms of learning to become a conduit of new European knowledge to distant places, and of knowledge from these places back to Europe.

HI 391 - History Internship (3 or 9)

Offers qualified students supervised field experience in an area allied with their own interests. Internships are arranged in advance of the semester they are to be taken.

HI 395 - Senior Seminar Preparation (3)

This course prepares students for their capstone paper in the Senior Seminar by examining the historiography of a particular topic in depth and becoming acquainted with the problems and issues.

A prerequisite to HI 396

Prerequisite: HI 301 Historical Method & Criticism.

HI 396 - Senior Seminar: Special Topics (3)

This course is for seniors who have taken HI 395 Senior Seminar Preparation and continue to give seminars on their capstone topic and complete a major paper.

Prerequisite: HI 395 Senior Seminar Preparation.

HI 397 - Senior Thesis Preparation (2-3)

This course is designed for students to begin working on their Senior Thesis projects (HI 398).

A prerequisite to HI 398

Prerequisite: HI 301 Historical Method & Criticism .

HI 398 - Senior Thesis (3)

Students are exposed to the experience of researching, writing, and defending a major historical project. Permits students to learn on a one-to-one basis with a project director, the importance of critical analysis, and writing within the discipline of history.

Prerequisite: HI 397 Senior Thesis Preparation.

HN - Honors**HN 300 - Honors Capstone (3.00 Credit(s))**

This course provides an opportunity for the third year honors student to integrate knowledge learned through the Thematic Liberal Arts (TLA) core courses in the capstone course of the honors program. Students will learn, develop and exercise integrative, cross-disciplinary thinking through weekly class discussions and the writing and presentation of a long written artifact on a cross-disciplinary topic of the student's choice.

Distribution: Honors.

HRTM - Hospitality Resort and Tourism

HRTM 201 - Introduction to the Hospitality and Tourism Industry

Introduction to Hospitality and Tourism explores the vast nature of the Tourism and Hospitality Industries. This class is focused on learning about the industry segments by exploring career paths and opportunities for employment. Guest lectures, field trips and creating a digital resume-like presentation will all be utilized to introduce the student to the industry and to the program.

HRTM 202 - Intro to Culinary Hospitality and Sanitation

Many hospitality enterprises are focused on food as a product that is offered to the public. Food brings people together, this class will focus on basic culinary skills in a commercial kitchen setting (learning to use a knife safely and the Mother sauces). We hold the safety of the public in our hands and this course will include a nationally recognized food safety credential ServSafe - food handling certificate.

HRTM 207 - Management of Human Resources

Explores the contemporary human resources function and basic processes involved in the recruitment, selection, training, development, and evaluation of an organization's human resources. Additional topics include today's emphasis on talent management as well as legal issues in HR management, labor relations, performance assessment and improvement, career paths, termination, compensation and benefit systems, and managing diversity.

LODGING OPERATIONS MANAGEMENT

The course is designed to introduce operations in full and limited-service hotels. Topics discussed in the class include an overview and current trends in the lodging industry, hotel organization, reservations, registration, guest services and communications, hotel security, front office accounting, housekeeping, night audit, planning for operations, sales techniques, and revenue and human resources management. At the end of the course students will take the Certification in Hospitality Industry Analytics (CHIA) exam in hopes of achieving their CHIA. The certification is based upon content areas including hotel industry analytical foundations, hotel math fundamentals, property level benchmarking (STAR Reports), and industry performance reports.

HRTM 301 - Lodging Operations Management

The course is designed to introduce operations in full and limited-service hotels. Topics discussed in the class include an overview and current trends in the lodging industry, hotel organization, reservations,

registration, guest services and communications, hotel security, front office accounting, housekeeping, night audit, planning for operations, sales techniques, and revenue and human resources management. At the end of the course students will take the Certification in Hospitality Industry Analytics (CHIA) exam in hopes of achieving their CHIA. The certification is based upon content areas including hotel industry analytical foundations, hotel math fundamentals, property level benchmarking (STAR Reports), and industry performance reports.

HRTM 302 - Private Club Management (3)

Private Clubs are the most personalized and service focused enterprises in an industry that is focused on service delivery. This highly specialized segment offers challenges and rewards for the right young professional. This course will explore the Private Club Industry and opportunities in depth. Types of clubs, ownership structures, departments within clubs, professional associations will all be considered. This class will include field trips and guest lectures from current industry professionals at the top of their field.

HRTM 303 - Business Analytics I (3)

This course provides an introduction to the field of business analytics, which has been defined as the extensive use of data, statistical and quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions. The development and use of data warehouses and data marts to support business analytics is discussed. The use of key performance indicators, dashboards and scorecards for performance management and opportunity assessment are addressed.

HRTM 304 - Global Tourism

Students will become immersed in principles and theories of cultural, heritage, and religious tourism, and will closely examine sustainable development. A focus will be placed on the tourist motivations and the impact(s) that visitors have upon the host community.

HRTM 305 - Tourism Marketing

Examines the components of the marketing mix specific to tourism and hospitality professions. There will be a detailed focus on how brand image impacts holiday destinations. The class will utilize a readings list, case studies, social media and site visits to explore this topic.

HRTM 306 - Sport & Recreation Tourism

Students will examine the history and operational mechanisms of the tourism industry, with specific focus on sport and recreation entities. The interplay between sport and tourism will be examined from marketing, economic, and environmental perspectives. Class topics covered include: sociocultural impacts, sports events, active sport tourism, celebrity and nostalgia tourism, and community building.

HRTM 390 - Internship - Hospitality & Tourism

Students are directly involved in various dimensions of hospitality or tourism management. Emphasis is on the practical application of hospitality and tourism principles and skills to a specific for-profit or non-profit enterprise. On-site professionals supervise students.

HRTM 391 - Internship - Hospitality & Tourism Specialization Area

Students are directly involved in a work experience that is aligned with their academic area of specialization. Emphasis is on the practical application of hospitality and tourism principles and skills to a specific for-profit or non-profit enterprise. On-site professionals supervise students.

HRTM 401 - Strategic Management in the Hospitality Industry

This course is designed to prepare students for any of several hospitality and hospitality related activities that they may encounter upon their departure from SHU. To accomplish this goal, the course combines readings, cases, lectures, discussion and a computer simulation in an integrative framework. The course is designed to provide them with a methodology for analyzing business situations and for developing strategic plans.

HRTM 402 - Revenue Management & Pricing

Revenue management has become an increasingly popular subject in many businesses, particularly in the service sector. This course will help students to learn more about formulating tactics and strategies to maximize revenues for organizations, by thoroughly examining the role of pricing in each element of the business objective, marketing objective, and source of volume, segmentation, targeting, and positioning; and shows how pricing can be used to align the elements of strategy and execution.

HRTM 410 - Bar and Beverage Management

Managing a beverage service operation is highly lucrative, but full of responsibility. This course will focus on the products that we serve: Beer, Wine, Alcohol, Coffee and Tea. This course will also explore the unique nature of managing beverage operations: laws, licenses, inventory, service and profit. This course will include a nationally recognized credential.

HRTM 411 - Resort Operations and Service Excellence

This course surveys resort operations with a focus on best practices and service excellence. Sustainability and luxury will be important topics and the class project will require research and creativity.

HRTM 412 - Social Marketing Analytics

Students are introduced to social marketing analytics (SMA) and their influential value for hospitality businesses and society. SMA covers techniques and methods for analyzing the constant flow of information over social networks (e.g. Facebook posts, twitter feeds, foursquare check-ins, Snapchat) seeking to identify, often even in real-time, patterns of information of interest to hospitality business analyst. Students will gain an in-depth understanding of the opportunities, challenges and threats arising by online social media as far as businesses and the society at large are concerned.

HRTM 413 - Analysis of Consumer Decisions

Explores the tools and techniques used by marketers to analyze customer behaviors. It examines databases, analytics, metrics, software and techniques applied by marketers to transform data into useful formats for the strategic decision-making process. Contents focus on technology tools for segmentation, target marketing and positioning, e-media selection, market share and estimation, sales forecasting and other analysis.

HS - Health Science

HS 200 - Intro to Health Care & Health Profession (3.00 Credit(s))

The foundational course will begin with an overview of our healthcare system and its comparison to other countries. Delivery systems and ethical decision-making will be examined in terms of population health, needs assessment, access, quality and cost. It will examine general healthcare terminology in relation to current systems and explore issues affecting the delivery of health care.

The roles of various members of the health care system will be examined regarding education requirements, health care settings, health promotion philosophy and scope of practice in regards to inter-professional practice. This course is also intended to strengthen and broaden students' research, writing, and oral presentation skills for upper division course work and eventual career path, including graduate study.

Distribution: Health Science and Leadership.

HS 204 - Introduction to Research in Health Science (3.00 Credit(s))

This course is designed to provide an overview of research design, methods, and ethics for undergraduate students in health science. The course develops the basic skill of critically analyzing research findings. Research methods are introduced with emphasis placed on analyzing key elements of research reports as a basis for determining the appropriateness of the research results for evidence-based practice in healthcare. Various types of research design and methods will be explored. Students will have the opportunity to design and evaluate research projects and gain a key understanding of reliability, validity and generalizability issues related to conducting research.

Distribution: Health Science and Leadership.

HS 210 - Leadership in Healthcare (1 (credit)s)

This interdisciplinary course is an examination of contemporary leadership styles for healthcare professionals.

***This course is currently offered only in the Spring Semesters**

Distribution: Health Science and Leadership.

HS 230 - Introduction to Global Health (3)

Why are some people in some countries so much healthier than others? This course will explore the factors that explain the unequal distribution of health and disease in the world. The course will begin with an introduction to the language of global health: the burden of disease, epidemiology, cost effectiveness, and health systems. It will then analyze the rationale for and modes of intervention to improve global health by exploring a num

ber of high profile topics, including the HIV/AIDS epidemic, access to pharmaceuticals, human resources for health, and maternal and child health. The course will incorporate knowledge and views from multiple academic disciplines (public health, economics, politics, management, sociology) and does not require any background knowledge.

HS 301 - Spirituality in Healthcare (3)

Explores the spiritual dimension of healthcare and the incorporation of spirituality into the caring relationship. The intersection of religion, spiritual practices, culture, diversity, life stages, and health issues is examined. Other topics include the identification of one's personal spirituality, discussion of the ethical provision of spiritual care by the healthcare professional, importance of the consideration of spiritual care needs by the healthcare team, and the difference in the roles of the healthcare professional and pastoral care professional.

Prerequisite: Sophomore standing.

HS 302 - Healthcare Administration Practice (3)

This course will examine selected administration practices to prepare students for management roles including budget and finance, supervision and management of personnel, unions, strategic planning, departmental organization, goals, and plans of operation. Individual leadership styles and other assessment tools along with case studies of common challenges in healthcare environments will be presented. Considerations of differences between for-profit and not-for-profit organizations will be discussed.

HS 303 - Health Education & Promotion of Healthy Lifestyles (3)

Health education and promotion activities are increasingly supported by evidence showing positive impacts on various health indicators. Using nationally published population health goals as a framework, this course will use frequently occurring health conditions to explore health education models and health promotion interventions. Attention will also be given to measuring health and the impact of lifestyle choices on healthcare needs and costs within the context of ethical principles.

HS 304 - Community & Public Health (3)

This course focuses on the family and community as consumers of health services. The different perspectives, sensitivities, and application of knowledge unique to families and the community are identified. Effectiveness of family-centered practice is explored in relation to the problems, priorities, attitudes, culture, and resources of the family and community.

HS 306 - Health Management Information Systems (3)

This course introduces the current status of information systems and technology in the healthcare industry. We will examine the clinical and administrative applications that are fundamental to the industry. Information systems topics such as process flow, systems analysis, database management, hardware, and software will also be discussed and examined in the context of the industry. Students will also explore emerging technologies and how they relate to the healthcare industry.

HS 307 - Alternative Healing Modalities (3)

This course examines holistic forms of healthcare that can add to the effectiveness of traditional allopathic care, including energy systems, art, imagery, meditation, and hands-on healing approaches. Integrative medicine is the term to describe the interdisciplinary approach to client care, which borrows from Eastern and Western medical traditions. Assignments will include first-hand experiences of techniques for subjective and objective assessment.

HS 309 - Professional Interactions in Healthcare Settings (3)

This course will present a model for interacting with people seeking healthcare services and healthcare personnel with consideration of roles, expectations, communication, and mutual goal setting. Commonly used assessment skills such as general interviews/talking with clients, conflict resolution, and communication skills will be included as will more advanced professional interaction skills of conflict resolution, negotiation, and mediation.

Prerequisite: Junior or senior standing.

HS 310 - Human Growth & Development Across the Lifespan (3)

This course covers the psychological, biological, cognitive, social, and emotional changes that occur throughout the human lifespan. It includes prenatal stages through death and dying. Students will be introduced to both classic and new and emerging theories of development as they gain an understanding of the dynamic interrelatedness and relationship between biology and environment in human growth and development.

HS 314 - Introduction to Epidemiology (3.00 Credit(s))

This course will introduce students to basic principles and methods used in epidemiology. the course will include basic research designs, estimating outcome measures, and establishing cause and effect and effectiveness of interventions to prevent and cure disease. Application of epidemiology methods and the importance of surveillance to the health care field will be discussed.

Distribution: Health Science and Leadership. Prerequisite: HS-200, HS-304, MA-132.

HS 315 - Behavioral and Mental Health (3.00 Credit(s))

This course provides an overview of multidimensional factors, perspectives and approaches associated with behavioral health and mental health. Classification, diagnosis, therapeutic approaches and institutional responses within the context of healthcare systems, values and ethics are discussed. Medical, legal, and social issues related to behavioral health and mental health and the treatment of people with mental health disorders are addressed.

Distribution: Health Science and Leadership.

HS 332 - Global Health Systems (3)

This course allows students to examine social, economic, and political determinants of healthcare systems and the evolution of various systems around the world over the last few decades. Students will compare theories of health policy and priorities, models of government intervention in providing healthcare and insurance, financing, planning, education, and training. Students will review the major determinants of health status, international development and social change around the world, and reflect on how it applies and is practiced in the U.S.

healthcare system and society. The roles of different types of international health organizations will be defined and examined, including financing institutions, implementing institutions, research entities, technical support entities, coordinating bodies, and private and non-governmental voluntary organizations.

HS 350 - Healthcare Policy, Politics, & Advocacy (3)

Virtually all health services and careers are influenced by healthcare policy at the local, regional, national, and even international levels. The implications of health policy principles and decisions will be explored along with the resulting impact on the financing of healthcare services. Consideration to current policy and finance priorities in healthcare will be used to structure the examination and debate along with application of ethical principles and advocacy toward influencing healthcare policy.

HS 351 - Legal & Ethical Aspects of Healthcare (3)

The planning and delivery of healthcare is strongly affected by legal issues and ethical aspects of professional roles and care delivery in various settings. Basic legal and ethical principles will be presented and applied to selected scenarios to illustrate the role that the law and ethics have on healthcare practice. The regulation of healthcare at national and state levels will also be reviewed.

A prerequisite to HS 354

HS 352 - Healthcare Leadership (3)

This survey course will review leadership theories practices commonly applied in healthcare environments. The course will emphasize leading diverse organizations, collaborating with colleagues on creating and communicating a vision for the organization, and ethical leadership. Analyzing organizational frames and leading change to adapt to emerging healthcare environments will be explored.

HS 353 - Diversity & Disparities in Healthcare (3)

The rapidly changing demographics of the country and the world call for increased attention to disparities relative to health status, including issues around diversity, socioeconomic status, geography, and access. The effects that facility utilization and uncompensated care have on access will be discussed. This course will provide a framework for exploring diversity and disparities with emphasis on culturally competent care and mediation of differences in health outcomes among diverse populations with regards to accessing quality healthcare.

HS 354 - Improving Healthcare Quality & Safety (3)

Healthcare organizations are committed to improving the quality and safety of services both to achieve their missions and to comply with various regulatory requirements. This course will review the major sources of quality and safety standards, present some of the major approaches to improving quality and safety, and discuss the role of all healthcare workers in creating a culture of safety. Leadership implications of the quality and safety of the environment, movement, and handling will be explored.

Prerequisite: HS 351 Legal & Ethical Aspects of Healthcare.

HS 355 - Health Research Capstone (3)

The Health Research Capstone course will provide an overview of health research principles and the role of research in the delivery of healthcare, showing connections to the other BSHS major core courses on leadership and management, diversity, improving quality and safety, and legal/ethical principles and issues. Specifically, the capstone process will emphasize finding the best available current research and applying evidence-based practices to selected scenarios. The capstone experience will involve selection of an approved topic from the major core courses and design of a project to enhance knowledge and skills in that area.

IL - History

IL 302 - Information Literacy for History Majors (1)

This course meets once a week for 10 weeks. Each class is one hour and fifteen minutes long. The course is designed to acquaint History students with the process of finding, retrieving organizing, analyzing, using and distributing information both in print and electronic formats for the purpose of preparing for and completing their Senior Thesis. Focus is on expanding the range of documents types and research techniques students are familiar with. The course covers law materials, archival materials, and census records, as well as advanced database and catalog searching techniques. The course seeks to ensure students are using primary as well as secondary resources to create a working bibliography in conjunction with the Senior Thesis (HI 398).

Prerequisite: HI 301 Historical Method & Criticism.

IS - Information Systems

IS 272 - Dynamics of Information Technology (3)

Presents information systems concepts from a managerial perspective to understand how information systems work and how they are used for business purposes. This course is designed to help students understand and use fundamental information systems principles so that they will efficiently and effectively function as future business employees and managers. Topics include hardware and software of computers, telecommunication and networks (including the Internet), database management, e-commerce, systems development, and systems security. A prerequisite to SM 382

IT - Italian

IT 101/102 - Beginning Italian I and II (3 CR each)

Intended for beginning-level students. Emphasis on building communicative competence and oral proficiency. All four skill areas are covered including reading, writing, listening, and speaking. An appreciation of Italian culture is integral to the course. Multimedia tools (videos and Internet sources) enhance course.

IT 102 a prerequisite to IT 151

IT 107/108 - Beginning Italian Language & Culture in Italy I and II (3-4 CR each)

Beginning-level language courses taken in Italy. Students placed according to their level. Focus on oral and written expression. Study of Italian culture integral to the course.

IT 151/152 - Intermediate Italian I and II (3 CR each)

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of grammar. Readings, vocabulary building, composition, listening comprehension, and conversation. Italian culture integral to course. Multimedia tools (videos and Internet sources) enhance course.

IT 152 a prerequisite to IT 201/202, IT 203, and IT 204

Prerequisite: IT 102 Beginning Italian II or placement for IT 151; IT 151 Intermediate Italian I or placement for IT 152.

IT 157/158 - Intermediate Italian Language & Culture in Italy I and II (3 CR each)

Intermediate-level language courses taken in Italy. Students placed according to their level. Continued development of oral and written expression. Study of Italian culture integral to the course.

IT 201/202 - Topics in Italian Language & Culture I and II (3 CR each)

Designed to fortify proficiency in the various skill areas (reading, writing, listening, and speaking) and cultural awareness. Prepares students for upper-division literature and culture classes. Includes complex grammar review and extensive writing in various styles and genres; cultural and literary readings; and oral expression. Audiovisual and/or technological materials incorporated into class.

IT 201/202 a prerequisite to IT 251, IT 252, IT 280, IT 283, IT 290, IT 299, IT 353-359, IT 363-369, IT 371, IT 372, IT 373-379, and IT 380

Prerequisite: IT 152 Intermediate Italian II or placement for IT 201; IT 201 Topics in Italian Language & Culture I or placement for IT 202.

IT 203 - Advanced Conversation & Contemporary Issues (3)

Development of advanced proficiency and communicative competence through discussion of current events and contemporary issues. Varied readings (newspapers, magazines, technological sources) and activities (debates, skits).

Prerequisite: IT 152 Intermediate Italian II or placement.

IT 204 - Explorations in Italian Film (3)

Key films in Italian cinema. Depending on semester, either overview of tradition or focus on particular period/movement. Cultural and historical contexts of films. Improvement in critical and linguistic skills.

Prerequisite: IT 152 Intermediate Italian II.

IT 251 - Early Italian Writers (3)

A survey of representative literary texts from the Middle Ages through the seventeenth century. Discussion of historical and cultural context. Several literary genres (novel, poetry, drama, etc.) treated. Critical techniques introduced. Taught in Italian.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 252 - Italian Writers Then & Now (3)

A survey of representative literary texts from the eighteenth century to the present. Discussion of historical and cultural context. Both canonical and lesser-known works in several literary genres (novel, poetry, drama, autobiography, etc.). Critical techniques introduced. Taught in Italian.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 280 - Italian Civilization & Culture (3)

Promotes understanding of the history and culture of Italians with emphasis on the arts, politics, language, thought, and lifestyle. Readings, films, the visual arts, and music are incorporated. Audiovisual and/or technological materials incorporated into class. Taught in Italian.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 283 - Franco-Italian Connections (3)

Content varies. Comparative course focusing on historical and cultural connections and contrasts between France and Italy. May treat particular period (war years, contemporary times). Can include literature, film, music, and the visual arts. Taught in English with language-specific assignments for foreign language students.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 290 - The Italian Short Story (3)

Discussion of short story tradition in Italian literature. Stories by canonical authors and writers new to literary scene. Focus on literary technique and historical and cultural context of stories.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 299 - Special Topics in Italian (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 353-359 - Special Topics in Italian Film (3-4 CR each)

Content varies. Study of particular film directors, movements (Neorealism), periods, and genres.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 363-369 - Special Topics in Italian Culture (3-4 CR each)

Content varies. Study of particular periods (Risorgimento), locations, movements (fascism), and representative individuals.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 371 - Literary Travelers, Exiles, & Expatriates (3)

Treats literary representations of travel, exile, and expatriation. Emphasis on works in a variety of genres including novel, autobiography, and letters. Issues include life abroad and life in exile, bicultural and multicultural identity, displacement and subjectivity, bilingualism, and confrontations with foreign cultures. May treat specific period.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 372 - Women Writers (3)

Treats literary works by Italian women in a variety of genres including novel, autobiography, drama, poetry, and letters. Discussion of feminist literary criticism and theory. May treat specific period.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 373-379 - Special Topics in Italian Literature (3-4 CR each)

Content varies. Study of particular authors, movements, periods, and genres (short story, drama).

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 380 - Dante & the Italian Literary Tradition (3)

An advanced literature course focusing on Dante Alighieri's *Commedia*, in particular the *Inferno*. Also treats Dante's influence on the Italian literary tradition through contemporary times.

Prerequisite: IT 201/202 Topics in Italian Language & Culture I and II or placement.

IT 399 - Independent Study (3)

Work on a special topic to be arranged with instructor who directs this work. Permission of the department chair is granted to qualified students in Italian on basis of written prospectus. By special arrangement.

ITI - Information Technology

ITI 125 - IT Explorations

This course provides a hands-on introduction to the Information Technology program and allows students to learn about the program in more detail by completing hands-on learning exercises in a laboratory environment. Several different aspects of Information Technology, such as web environments, core IT concepts, infrastructure, applications and software, security, and database tools will be covered.

ITI 212 - Web Systems Development

This is a course that equips students with hands-on skills in developing state-of-the-art web systems, that includes setting up a web server, and configuring it for optimum utilization. Server environments will be evaluated, and students will be exposed to different types of web systems, including distributed web settings.

ITI236 - ADVANCED SCRIPTING CONCEPTS

This course illustrates core features of scripting languages. Topics covered include writing scripts to access parts of computer system, standard libraries, understanding how scripting works on the web and connecting a web application to a database. The students build multi-layered functionality including networks, data and security.

ITI 261 - Professional Web Design

An introduction to web-enabling technologies, this course addresses web design with markup languages as well as graphical design elements, and client-side scripting. Problems and trends faced by webmasters today are also discussed.

ITI 342 - ENTERPRISE SYSTEM MANAGEMENT

Students explore systems and activities within an enterprise that brings together processes, people, and technology; and will configure and maintain prototype enterprise systems. This course is suitable for students who want to pursue careers as technical managers, with hands-on knowledge on implementing technology-based information systems solutions.

ITI 417 - Senior Project Design

This senior project design course is offered in the fall of the senior year. Students work with senior capstone project coordinator and a faculty mentor to define an important problem in their discipline, and propose to implement a solution as a team.

ITI 418 - SENIOR PROJECT IMPLEMENTATION

This senior project implementation course is offered in the spring of the senior year. Students work with a faculty mentor to implement their project. Students are required to assess requirements, design and develop the software and write detailed documentation that illustrates and supports design choices. Test plans, usability testing and prototypes are also required. Students present their complete, working projects to the department faculty and public as the culmination of this project.

JP - Japanese

JP 101/102 - Beginning Japanese I and II (3 CR each)

Intended for beginning-level students. An introduction to modern Japanese pronunciation, drills, grammar, and conversation practice with an introduction to the hiragana and katakana writing system. Incorporates an appreciation of Japanese culture.

JP 151/152 - Intermediate Japanese I and II (3 CR each)

Continued emphasis on communicative competence and oral proficiency. Review and intensified study of structure, reading,

vocabulary building, composition, listening comprehension and conversation. Incorporates an appreciation of Japanese culture.

Prerequisite: JP 102 Beginning Japanese II or placement for JP 151; JP 151 Intermediate Japanese 1 or placement for JP 152.

LT - Latin

LT 101/102 - Beginning Latin I and II (3 CR each)

Intended for beginning-level students. Emphasizes fundamentals of Latin. Includes basic grammar, development of comprehension, and expression. Short readings and cultural background incorporated into sequence.

MA - Mathematics

MA 101 - Mathematics for the Liberal Arts (3)

Intended for the liberal arts major, the goal of this course is to give students an understanding of the wide variety of ideas in contemporary mathematics. Topics may include set theory, finite mathematical systems, number theory, symbolic logic, graph theory, voting theory, and the art of problem-solving.

Prerequisite: Placement by Mathematics Department.

MA 105 - Mathematical Applications for Health Sciences (3)

Designed exclusively for Nursing students. Topics include college-level algebra, graphing, basic trigonometric functions, and appropriate applications for the health sciences. It is a problem-solving approach to mathematics.

Prerequisite: Placement by Mathematics Department.

MA 106 - College Algebra (3)

This one-semester course is designed to improve algebraic skills. Topics include functions, equations, and inequalities in one variable; linear, quadratic, polynomial, and rational functions; exponential and logarithmic functions; systems of linear equations in two variables. Algebraic techniques and applications are stressed.

A prerequisite to MA 140

Prerequisite: Placement by Mathematics Department.

MA 107 - Numbers & Operations for Elementary Teachers (4)

This course is designed specifically for perspective elementary teachers, to provide a conceptual understanding of the number and operations content to be taught in the elementary mathematics classroom. Topics include problem solving, the base ten number system, fractions, operations, ratio and proportions, and number theory.

Prerequisite: Placement by Department.

MA 108 - Geometry for Elementary Teachers (3)

This course is designed specifically for prospective elementary teachers, to provide a conceptual understanding of the geometry content to be taught in the elementary mathematics classroom. Topics include defining and problem solving with lines, angles, shapes, solids, concepts of measurement, and the use of dynamic geometry software.

MA 109 - Algebra for Business and Sciences (3)

Designed specifically for the Business major. Focus is on linear functions, systems of equations, matrices, probability, and linear programming.

A prerequisite to MA 110

Prerequisite: Placement by Mathematics Department.

MA 110 - Business Calculus (3)

Designed specifically for the Business major. Includes study of limits; differentiation of algebraic, exponential, and logarithmic functions; integration; and applications of calculus.

Prerequisite: MA 109 Mathematics for Decision-Making or placement by Mathematics Department.

MA 131 - Elementary Statistics (3)

This course is geared toward liberal arts, science, business, and health science majors. It introduces descriptive statistics, probability distributions (both discrete and normal), confidence intervals, hypothesis testing, and correlation. Real-world applications are offered and computer statistical software may be used.

MA 140 - Precalculus (4)

Addresses the algebra of functions, polynomial and rational functions, exponential and logarithmic functions, and trigonometric functions including analytical trigonometry.

A prerequisite to MA 151

Prerequisite: C or better in MA 106 or placement by Mathematics Department.

MA 151 - Calculus I (4)

Explores limits and approximation, differential and integral calculus of the elementary algebraic and transcendental functions, and applications of differentiation and integration.

A prerequisite to MA 152

Prerequisite: C or better in MA 140 Precalculus or placement by Mathematics Department.

MA 152 - Calculus II (4)

Covers applications and methods of integration, inverse trigonometric functions, improper integrals, sequences and series, parametric representation, and polar coordinates.

A prerequisite to MA 253, MA 261, MA 280, MA 301, MA 331, and MA 354

Prerequisite: C or better in MA 151 Calculus I or placement by Mathematics Department.

MA 199 - Special Topics in Mathematics (3)

Designates new or occasional courses on a timely topic or a faculty member's particular interest. Course title is shown on student's transcript. Consult the current course schedule for available topics and current prerequisites.

MA 200 - Integrating Math & Biology 9-12 Curriculum (2.00 Credit(s))

Seminar for Noyce Mathematics and Biology Education Program on integrating Mathematics and Biology in the 9-12 curriculum.

Distribution: Mathematics. Offered: Fall & Spring Semesters All Years.

MA 253 - Calculus III (4)

Introduces three-dimensional analytic geometry, multivariable calculus, real-valued functions of several variables, limits and continuity, partial derivatives, multiple integration, and vector calculus.

Prerequisite: C or better in MA 152 Calculus II.

MA 254 - Differential Equations (3)

Focuses on equations involving functions and one or more of its derivatives. Examines first-order differential equations, numerical and qualitative techniques for solving differential equations, linear systems, geometry of linear systems, and applications to forcing/resonance. If time permits, the course will address the Laplace Transform, convolutions, and advanced numerical methods for solving differential equations.

Prerequisite: Take MA-152 Calculus II with Minimum Grade of C, P or Transfer.

MA 261 - Linear Algebra (4)

Focuses on matrix theory, systems of linear equations, linear transformations, vector spaces and subspaces, determinants, eigenvalues, inner product spaces, and orthogonality.

Prerequisite: C or better in MA 152 Calculus II.

MA 279 - The Heart of Irish Mathematics (3)

This course is a liberal arts that focuses on the great ideas that are at the heart of mathematics. The aim of this course is not to do calculations, but to discuss the big ideas that are at the heart of mathematics and apply these ideas to the Irish culture. Students will learn how mathematics influenced ancient Irish ruins with visits to the Garfinny Bridge, Promontory Forts, and the Ardamore Stone Row. Students will also learn how mathematics is prevalent in nature in Ireland through visits to the Irish coastline and to Dingle Crystal.

MA 280 - History of Mathematics (3)

This course considers the evolution of mathematical ideas over time and the context in which these ideas developed, in various civilizations

around the world. Students will gain an understanding of the process of development of mathematical ideas, awareness that it is an ongoing and creative process, and a deeper understanding of mathematical topics by pushing beyond the traditionally presented "polished form" we see in today's textbooks. Selection of topics varies by semester.

Prerequisite: C or better in MA 151 Calculus I or permission of department chair.

MA 299 - Special Topics in Mathematics (3)

Designates new or occasional courses on a timely topic or a faculty member's particular interest. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

MA 301 - Mathematical Structures & Proofs (3)

Introduces students to the understanding and creation of rigorous mathematical arguments and proofs. Includes methods of proof, set theory, relations and functions, properties of the integers, real and complex numbers, and polynomials.

A prerequisite to MA 314, MA 320, MA 325, MA 362, and MA 371

Prerequisite: Sophomore standing and C or better in MA 152 Calculus II.

MA 314 - Geometry (3)

This course covers advanced theories of Euclidean geometry and introduces non-Euclidean geometries such as spherical and hyperbolic.

Prerequisite: C or better in MA 301 Mathematical Structures & Proofs.

MA 318 - Topology (3)

This course introduces both point-set and algebraic topology. Topics covered include topological spaces, metric spaces, continuity, homeomorphisms, connectedness, compactness, and fundamental groups.

Prerequisite: Minimum grade of C in MA 301.

MA 320 - Graph Theory (3)

Focuses on structures and properties of graphs and their applications. Topics include traversability, trees, connectivity, network flow, graph coloring, chromatic number, and planarity. Discussion of application of graph theory to computer science, transportation, scheduling, communication, chemistry, and a variety of other fields. Writing mathematical proofs will be an essential part of this course.

Prerequisite: C or better in MA 301 Mathematical Structures & Proofs.

MA 325 - Number Theory (3)

This course is designed to give students a basic understanding of the properties of numbers, mainly the integers and rational numbers and their applications. Topics covered include primes and divisibility, congruence modulo n , Euler's ϕ function, and continued fractions. Applications discussed include check digit schemes and cryptography. Writing mathematical proofs will be an essential part of this course.

Prerequisite: C or better in MA 301 Mathematical Structures & Proofs.

MA 331 - Probability (3)

Addresses probability, discrete random variables and their distributions, mathematical expectations, sampling distributions, and multivariate distributions.

A prerequisite to MA 332

Prerequisite: C or better in MA 152 Calculus II.

MA 332 - Mathematical Statistics (3)

Addresses statistics with an emphasis on the underlying mathematical theory. Topics include point estimation and its properties, interval estimation, correlation, regression, and hypothesis testing involving parametric as well as non-parametric methods.

Prerequisite: MA 253 Calculus III and MA 331 Probability & Statistics I.

MA 337 - Numerical Analysis (3)

This course introduces students to solving numerical problems approximately using algorithms and understanding the accuracy of the approximations. A high level software package such as Maple/Mathematica/Matlab would play an important role in this course.

Prerequisite: Minimum grade of C in MA 301.

MA 341 - Mathematical Modeling (3)

Mathematical models represent real-world phenomena using mathematical concepts and language. This course uses mathematical models to analyze and explain the behavior of problems from the physical and social sciences.

Prerequisite: MA 253 Calculus III , MA 261 Linear Algebra .

MA 349 - Actuarial Mathematics (3)

This course focuses on the types and pricing of life insurance and life annuity contracts and covers some of the material in exams MLC and 3L. Topics include: Modeling decrements used in insurances and annuities using single, joint, marginal, and conditional probabilities; discrete time and continuous time Markov chain model; computing present value and accumulated values using non-stochastic interest rate; modeling cash flows of traditional life insurances and annuities using Markov chain model; benefit reserves for traditional life insurances and annuities using Markov chain model; modeling cash flow for non-interest sensitive insurances; modeling contract cash flow for basic universal life insurances; modeling cash flow for basic universal life insurances; benefit reserves for basic universal life insurances; and models that consider expense cash flows.

Prerequisite: FN 215 Financial Management and MA 261 Linear Algebra and MA 331 Probability & Statistics I.

MA 362 - Abstract Algebra (3)

Explores algebraic systems, group theory, quotient structures, isomorphism theorems, ring theory and ideals, as well as integral

domains and fields. Writing mathematical proofs will be an essential part of this course.

Prerequisite: C or better in MA 301 Mathematical Structures & Proofs.

MA 371 - Real Analysis (3)

Addresses real numbers, cardinality, metric spaces, convergence, topology, continuity, differentiability, and Riemann integration. Writing mathematical proofs will be an essential part of this course.

Prerequisite: C or better in MA 301 Mathematical Structures & Proofs.

MA 372 - Complex Analysis (3)

Examines the algebra and geometry of complex numbers, analytic functions, integration, Taylor and Laurent series, contour integration, and conformal mapping.

Prerequisite: MA 253 Calculus III.

MA 398 - Senior Seminar in Mathematics (3)

Capstone course for the mathematics major. Each student works on a research project leading to an oral presentation and the writing of a formal paper.

Prerequisite: Senior standing.

MGT - Management

MGT 101 - Organizational Management (3)

An interdisciplinary study of the management of organizations and decision-making, utilizing behavioral and quantitative approaches. Topics include decision-making, motivation and behavior, leadership, group behavior, organizational change, planning, control, and allocation of resources. These topics are addressed against a backdrop of management responses to issues of ethics, social responsibility, and globalization. Lecture and case-study format.

A prerequisite to MGT 202, MGT 207, MGT 257, MGT 278, and MGT 373

MGT 202 - Organizational Behavior (3)

Organizational behavior is about people and how they act and interact, mostly as members of groups. Current theories of organizational behavior are examined through the use of self-administered tests, experiential exercises, discussion, and case analysis.

A prerequisite to MGT 403

Prerequisite: MGT 101 Organizational Management.

MGT 203 - Cross-Cultural Relations (3)

Being able to work well with people from other cultures, both outside and inside your country, is vital in the changing global environment. Cultural sensitivity and awareness of different perceptions, values, and traditions are important individual skills. Many people identify with more than one culture, adding to the complexity of cross-cultural relations. In this course students learn to be alert to possible cultural differences.

Students come to understand these differences and learn not to rely on self-referential criteria.

MGT 207 - Management of Human Resources (3)

Explores the contemporary human resources function and basic processes involved in the recruitment, selection, training, development, and evaluation of an organization's human resources. Additional topics include today's emphasis on talent management as well as legal issues in HR management, labor relations, performance assessment and improvement, career paths, termination, compensation and benefit systems, and managing diversity.

Prerequisite: MGT 101 Organizational Management.

MGT 231 - Legal & Ethical Responsibilities in Business (3)

This is a survey course. The objective of this class is to learn to apply legal and ethical principles to managerial-related problems. The course provides a general study of areas of laws pertinent to business, including tort law, contract law, employment law, criminal law, and constitutional law. The student is expected to learn to identify legal issues and consider the ethical implications of his or her solution or decision.

A prerequisite to MGT 232, MGT 333, and MGT 334

MGT 232 - Advanced Business Law (3)

Provides an advanced survey of law adapted to the business environment. Areas of study include the uniform commercial code, agency law, business organizations, property law, securities law, secured transactions law, and bankruptcy law.

Prerequisite: MGT 231 Legal & Ethical Responsibilities in Business.

MGT 245 - Procurement and Purchasing Management

The course provides a special emphasis on the development and management of strategic sourcing relationships and promotes an understanding of the strategic role of supply management in effective supply/demand/value chain operations. Purchasing and supply management play an essential role in the ability of the firm to operate efficiently and be competitive in the contemporary global business environment.

MGT 257 - Business Ethics (3)

Investigates the ethical questions that arise in normal business situations. The case-study method is used to examine topics such as justice and the market system, whistle-blowing, trade secrets and conflict of interest, privacy, discrimination and affirmative action, marketing, safety, and employment issues. Special emphasis is given to ethics as it relates to finance, corporations, and international business.

MGT 270 - Social Entrepreneurship

This course will introduce the student to social entrepreneurship. Social entrepreneurship focuses on developing sustainable business solutions to social problems at a micro-level which can be replicated on a large scale. The course will focus on introducing students to current global movements and the social forces driving current social enterprises and understand the mechanisms other social entrepreneurs are using to create successful social enterprises. Students will develop a business

concept which addresses how best to solve some of the most pressing global issues confronting people today.

MGT 278 - Principles of International Business (3)

Surveys the scope of international business with special emphasis on various environments including political, economic, legal, technological, and sociocultural. Also discusses the managerial process of planning, organizing, controlling, and leading in a global context and its application to achieve success in international business.

Prerequisite: MGT 101 Organizational Management.

MGT 299 - Special Topics in Management (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites are established by the department as appropriate for the specific course. Consult the current course schedule for available topics and current prerequisites.

MGT 333 - International Business Law (3)

A general survey of international law including treaties and international organizations. Topics include the European community, WTO, U.S. trade policy, international contracts, and international payment mechanisms.

Prerequisite: MGT 231 Legal & Ethical Responsibilities in Business.

MGT 334 - Human Resources Law (3)

A survey of the laws which create, regulate, and terminate the relationship between the employer and the employee, including contract law, federal and state anti-discrimination statutes, wage and hour statutes, and other applicable law. With a microanalysis of the life of an employee complaint, from internal filing to litigation.

Prerequisite: MGT 231 Legal & Ethical Responsibilities in Business.

MGT 344 - Junior Achievement (1-3)

Junior Achievement is an experiential course for junior and senior Management students. The course is a variable credit course, such that students can complete up to 3 credits. The course will require students teach the Junior Achievement Business curriculum-including but not limited to financial literacy, developing a business plan, and entrepreneurship-at high schools in the community in a seven- to ten-week format based on the program they will be volunteering in. The course is designed to have students apply concepts they learn in the Business Administration program to their teachings, and it will help students strengthen their presentation skills while encouraging them engage in community service.

MGT 360 - Survey Design & Data Analysis (3)

This project based learning course provides an overview of surveys used by organizations for various reasons, with a focus on a Human Resource application - employee attitudinal surveys. The course includes instruction on survey design and practical application on how to convert organizational concerns into questions that provide meaningful answers. In groups, students will act as consultants and work with an actual client to design and develop a survey, communicate objectives, administer the

survey, analyze and interpret the results using statistical analysis, deliver results and transfer the results into action planning.

Distribution: Management. Offered: Fall & Spring Semesters All Years.

MGT 364 - Negotiations (3.00 Credit(s))

Negotiation is the art and science of securing agreements between two or more interdependent parties. Hence, the purpose of this course is to develop an understanding of the psychological and strategic dynamics of negotiation. The course is grounded in the major concepts and theories of bargaining, negotiation, and mediation and is designed to use a combination of simulations and analysis to build your own personal experience in the classroom and in the real world.

Distribution: Management. Offered: Fall Semester All Years.

MGT 370 - Global Leadership (3)

Global business means political, economic, and sociocultural interdependence and the linkages among politics, economics, cultural traditions, industries, and regional trading blocs that create an environment of change and uncertainty. It is in this changing environment that business leaders must learn to operate successfully. This course introduces students to global leadership and its development and is designed for students who want to work effectively with people from various cultures. The content and skills taught in this course provide tools for students to lead more effectively in today's more integrated global economy.

MGT 373 - Launching a New Business (3)

Students utilize their skills in various business disciplines to explore the passion of creativity. The course enables students to conceptualize and pursue the development of a new idea or concept or the improvement/new application of an existing product or service. Students utilize their knowledge of the market and competitive landscape, research, financial models, and management skills to determine the feasibility of a project and evaluate risk and the process of raising venture or risk capital.

Prerequisite: MGT 101 Organizational Management, FN 215 Financial Management, and junior or senior standing.

MGT 374 - Small & Family Business Management (3)

This course introduces the student to the challenges, opportunities, and rewards of owning a small business and provides the tools needed to be successful from startup through growth. The course is also directed to students who will enter into the management of family businesses, either their own family's or someone else's, and who will do business with family firms, consult with them, work with them in private wealth management, mergers and acquisitions, banking, consulting, outsourcing, etc.

Prerequisite: MGT 101 Organizational Management, FN 215 Financial Management, and junior or senior standing.

MGT 375 - Operations & Sustainable Supply Chain Management (3)

This course serves as the introduction to the operations function of business. All organizations-for profit or not-for-profit, manufacturing, processing, or services-have operations as their central function. Despite

their diversity, these organizations share common objectives and problems; in most cases, the same principles can be applied to help manage the operations. Major topics include determining operations strategy and objectives, planning the operations process, controlling operations, and managing its quality. The course introduces concepts to help understand how operations are organized and how operations decisions affect virtually every aspect of the firm.

Prerequisite: MGT 101 Organizational Management and MA 133 Business Statistics.

MGT 378 - Women in the Workforce (3.00 Credit(s))

Explore the progression of women as a vital part of the United States workforce and the resulting social issues which arose from this change. The course will focus on three key areas: the history of women in the workforce, both as domestic workers and as modern industrialized worker; the social issues which arose as women became an integral part of the workforce; and the modern issues facing women today as they enter the workforce and pursue their careers. Additionally this course will examine the underlying reasons resulting from gender roles as they relate to work related issues.

Distribution: Management. Offered: Spring Semester All Years.

MGT 390 - Internship (3-9)

Students are directly involved in various dimensions of business. Emphasis is on the practical application of business principles and skills to a specific industry or organization. An on-site business professional supervises students.

Prerequisite: Junior or senior status plus permission of the internship coordinator and department chair.

MGT 399 - Independent Study (1-3)

Students work on a special topic under the direction of an instructor. Permission of the instructor and department chair is granted to qualified Business majors on the basis of a written proposal from the student.

MGT 401 - Strategic Management (3)

Explores the formulation and administration of policy, integration of the various specialties of business, and development of an overall management viewpoint.

Prerequisite: Senior standing.

MGT 403 - Management & Business Communication Skills (3)

Explores supervisory skills required to effectively manage and deal with people in the workplace. Emphasis is on strategic human resource issues of recruiting and managing to retain talent. Includes skill-building applications to practice supervisory skills such as interviewing, providing feedback, resolving team conflict, dealing with emotional behavior, and managing terminations. Business communication skills focus on effective written and oral communication used in business settings and in formal and informal presentations at work.

Prerequisite: MGT 202 Organizational Behavior.

MK - Marketing

MK 201 - Principles of Marketing (3)

Investigates the components of the marketing mix. A managerial approach is employed and case studies supplement each area of exploration. Topics include customer behavior, product policy, channels of distribution, advertising and promotion, price policy, marketing programs, and the legal aspects of marketing.

A prerequisite to MK 205, MK 237, MK 238, MK 240, MK 270, MK 299, MK 310, MK 320, MK 334, MK 335, MK 336, MK 350, MK 360, MK 362, MK 390, MK 399, MK 425, and MK 430; SM 265

MK 205 - Advertising (3)

Analyzes advertising from the managerial viewpoint of its relationship within the marketing mix. Examines social and economic aspects of advertising, practices and issues, analysis of media, the communications function, creative aspects including art and copy, and measures of effectiveness.

Prerequisite: MK 201 Principles of Marketing.

MK 232 - Introduction to Digital Marketing

This survey course set the groundwork for understanding the digital marketing domain. The dynamic nature of digital marketing and its increasing importance are discussed in both a theoretical and practical context. Concepts learned in this course include search engine optimization, search engine marketing, online advertising, web analytics, email marketing, and reputation management.

MK 237 - Social Media Marketing (3)

This course provides the practical knowledge and insights required to define objectives and strategies of social media marketing, identify and properly select the social media tools to engage consumers, and effectively evaluate and measure the results of these efforts. Topics include infrastructure of social medias, social media platforms, social media marketing strategy, social media marketing mix, social communities, social publishing, social entertainment, social commerce, social media for consumer insights, and social media metrics.

Prerequisite: MK 201 Principles of Marketing.

MK 238 - Software Tools for Design (3)

This course offers a practical application of graphic design concepts for marketing objectives. Students will learn to manipulate scanned images and digital photographs in preparation for publication layout and design, to create single and multipage marketing publications (e.g., brochures, advertisements, flyers), and to design and publish commercial websites. The course provides students with hands-on experience in the use of state-of-the-art design tools such as Photoshop, InDesign (Publisher), and Dreamweaver.

Prerequisite: MK 201 Principles of Marketing.

MK 240 - Fashion Marketing (3)

Examines the history, evolution, and business of fashion from the nineteenth century to the present. Focus is on the marketing of fashion

apparel from the development of product line to distribution through multiple retail channels and purchase by targeted consumers. Advertising and promotional strategies will also be examined.

A prerequisite to MK 350 and MK 360

Prerequisite: MK 201 Principles of Marketing.

MK 270 - Customer Insights Using Technology (3)

Provides students with a working knowledge of resources and tools available to marketing professionals. It examines databases, analytics, metrics, software, and techniques applied by marketers to transform data into useful formats for the strategic decision-making process. Contents focus on technology tools for segmentation, target marketing and positioning, media selection, market share and estimation, sales forecasting, and other analyses. It requires extensive use of Excel spreadsheets, the Internet, public and professional databases, specialized software, and other technology resources.

Prerequisite: MK 201 Principles of Marketing.

MK 299 - Special Topics in Marketing (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites are established by the department as appropriate for the specific course. Course title is shown on the student's transcript.

Prerequisite: MK 201 Principles of Marketing.

MK 310 - Retailing & Merchandising (3)

Studies history and development of the retail function and its relationship to the wholesaler and manufacturer. Topics include store management, the buying function, elements of style and fashion, pricing policies, customer relations, store location, and sources of supply. Examines retail mathematics including markup, markdown, and turnover.

Prerequisite: MK 201 Principles of Marketing.

MK 320 - Consumer Behavior (3)

Explores various fields of knowledge necessary to understand marketing behavior. Materials from psychology, sociology, cultural anthropology, and history are used in conjunction with marketing problems. Examines consumers in terms of both individual and group buying behavior patterns; the consumer's process of arriving at buying decisions is appraised at both the retail and non-retail levels.

Prerequisite: MK 201 Principles of Marketing.

MK 334 - E-Marketing (3)

This course is designed to provide students with a comprehensive understanding of e-marketing and its role in the global economy. Topics include the role of e-business in the global economy, e-business models, privacy/security issues, payment systems, social networking sites, logistics and delivery, integration of online and offline channels, and related topics. Students will learn how to develop new e-business ideas,

create a business plan, select technologies, develop a website, and market an e-business and its products or services. Students will have an opportunity to apply their knowledge through hands-on exercises, cases, and/or project assignments.

Prerequisite: MK 201 Principles of Marketing.

MK 335 - Digital Advertising (3)

This course is an introduction to the rapidly evolving and dynamic digital-advertising sector (e.g., search, display, social, and mobile advertising). Recent changes in consumer behavior and opportunities, problems, tactics, and strategies associated with incorporating electronic methods into the marketing communications function are examined. The course also includes discussion of current metrics used to gauge the effectiveness of digital advertising.

Prerequisite: MK 201 Principles of Marketing.

MK 336 - Media Planning (3)

This course will explore different classes of media (traditional mass media, new media, nontraditional media, and specialized media), examine the respective role each can play in delivering a brand's message to the targeted consumer market, and how to create, evaluate, and execute the media plan.

Prerequisite: MK 201 Principles of Marketing.

MK 345 - Fashion Buying (3)

Examines today's retail environment, a buyer's function and day-to-day business in the fashion industry. Buying for different types of stores are explored. Market research, distribution of products, market sources, pricing, and financing are also examined. Basic and applicable functions of Microsoft Excel are practiced.

Prerequisite: MK 201 Principles of Marketing and MK 240 Fashion Marketing.

MK 350 - Fashion Brand Marketing (3)

This course encompasses the history, development, and process of brand marketing in the fashion industry. The array of national, designer, private label, store, and corporate brands, their background, and developmental strategies will be covered. Through the understanding of brand elements, brand equity, and brand communications, the student will create a positioning brief and launch their own fashion brand as a final project. In addition, this course will examine brand global expansion through such vehicles as licensing and franchising.

Prerequisite: MK 201 Principles of Marketing and MK 240 Fashion Marketing.

MK 360 - Marketing Integration: Textiles & Fashion (3)

Encompasses the processes involved in global supply chain management and integration from a raw material base to finished apparel. By understanding the building blocks of fiber, yarn, weaving, knitting, and color penetration systems, the student will understand what is essential in making decisions concerning aesthetics, cost, care, and wearability of fashion apparel. This course is essential for any student who wishes to

enter and manage in the fields of apparel merchandising, marketing, and design.

Prerequisite: MK 201 Principles of Marketing and MK 240 Fashion Marketing.

MK 362 - Marketing Research (3)

Explores principal areas and methods of marketing research including mail, diary, panel, phone, and the personal interview. Various types of research are analyzed with emphasis on the information-gathering function of research as a means to more effective business decision-making.

Prerequisite: MK 201 Principles of Marketing.

MK 364 - Professional Selling Skills

MK 390 - Marketing Internship (3-9)

Students are directly involved in various dimensions of marketing management. Emphasis is on the practical application of marketing principles and skills to a specific profit or non-profit enterprise. On-site marketing professionals supervise students.

Prerequisite: MK 201 Principles of Marketing and permission of the Marketing internship coordinator.

MK 399 - Independent Study (1-3)

Directed study of a specific, well-defined marketing topic. Permission of the instructor and departmental chair is granted to qualified Marketing majors on the basis of a written proposal from the student.

Prerequisite: MK 201 Principles of Marketing.

MK 425 - International Marketing (3)

Provides a broad-based understanding of the challenges, opportunities, and problems associated with international marketing. Emphasis is on understanding other cultures and current events and how they affect international marketing. Classroom work is supplemented with case studies, current readings, videos, and speakers who are active in the field.

Prerequisite: MK 201 Principles of Marketing.

MK 430 - Marketing Management (3)

Studies the effective management of the marketing mix. The case approach assists in viewing the marketing manager's efforts as coordinated with the contributions of the firm's segments. Provides understanding of marketing decision-making as being wholly related to the firm's goals, with a view to the larger context of society itself.

Prerequisite: MK 201 Principles of Marketing.

MU - Music

MU 102 - History of Jazz (3)

This course features a study of jazz styles from historical African sources to the contemporary era. Focus is on the creators of the various styles and the prominent performers.

MU 103 - Bach to Beethoven: Their Lives & Music (3)

This course focuses on famous compositions and composers primarily from the Baroque and Classical eras, 1600-1825. Highlights include classics and well-known works by Bach, Mozart, Haydn, and Beethoven. The music of these composers reflects the era in which it was created, but continues to provide contemporary meaning and inspiration to people around the world.

MU 104 - Brahms to Bernstein: Their Lives and Music (3)

Highlights of this course include exciting pieces by Romantic and twentieth-century composers from 1825 to the present. These composers created music that reflects the various cultures in which they lived, but additionally shows inspiring creativity, individuality, and uniqueness in an ever-changing world.

MU 106 - Introduction to Irish Traditional Music (3)

Students will survey the development of Irish Music from pre-Christian times through to the present, attend live performances, and learn to play the Irish whistle.

MU 109 - The History of Italian Opera (3)

This course explores Italian Opera from its conception to modern day.

MU 110 - Women in Music (3)

This class will give a general overview of women's involvement in the world of music from Medieval roots to current American popular music, including composers, performers, educators, and conductors.

MU 112 - Music in America (3)

U.S. folk, jazz, popular, and fine-art music are studied in this course. Emphasis is on aural analysis and placing historical and contemporary music in its cultural context.

MU 113 - SHUpermen (1)

This is a selected choral ensemble that performs standard repertoire for accompanied and unaccompanied voices.

MU 114 - Latin American & Caribbean Music (3)

This course traces the development of the most important Latin American musical styles from their historical folk origins to the present. Focus is on music from Cuba and Brazil and the creators and important performers of the styles.

MU 115 - Sight Singing I (1)

Course designed for basic music reading and aural perception. Students learn the necessary skills to sing musical intervals and simple melodies at sight.

A prerequisite to MU 116

MU 116 - Sight Singing II (1)

This course continues the development of music skills begun in Sight Singing I, including more advanced intervals and melodies.

A prerequisite to MU 235

Prerequisite: MU 115 Sight Singing I or by permission of academic music program coordinator.

MU 117 - Gospel Choir (1)

This course is a university choir performing various styles of Gospel music: Spirituals, Anthems, Contemporary and Traditional Gospel music. Within this nurturing environment students will learn music, healthy-singing techniques, tradition and context, and will build a sense of community.

MU 119 - History of Broadway (3)

Students study several classic Broadway musicals as well as several current shows.

MU 121 - Musicianship I (3)

This course focuses on the development and enhancement of musical skills through music reading and notation, rhythmic and tonal perception, and analysis. Other areas covered include the construction and function of scales, intervals, and triads. Open to all students. Offered fall semesters.

A prerequisite to MU 122

MU 122 - Musicianship II (3)

This course continues the development of musical skills through further practice with music notation, musical analysis, and aural perception. The construction and function of triads, harmonic motion, rhythm, texture, and writing are covered. Offered spring semesters.

Prerequisite: MU 121 Musicianship I or by permission of academic music program coordinator.

MU 124 - Listening to Luxembourg (3.00 Credit(s))

This course will investigate representative music of Luxembourg and its relation to the country's cultural and social life. An emphasis will be placed on the development and practice of observation, listening skills, peer work, and daily writing so that the student can meaningfully experience, appreciate, discuss and evaluate Luxembourg's musical culture by attending performances, taking tours, along with listening to music as a local would. Observations will then be linked to readings and discussions about how music and culture relate, and how they relate to the musical culture of the United States.

Distribution: Music. Offered: Summer Semester All Years.

MU 125 - Music in the Performing Arts (3)

A study of music and artists in the dramatic and performing arts, both past and present. Focus is on chamber music, opera, and musical theatre.

MU 130-MU 233 - Applied Music (1-2)

Private or group music performance courses that may be repeated for credit. Applied Music courses do not satisfy Area B-1 requirements. See individual course description for prerequisites and permissions needed.

MU 131 - Private Lessons (1)

Individual instruction in selected instruments or voice. One half-hour lesson per week. Fee required. Students receive 10 lessons per semester.

Prerequisite: By permission of academic music program coordinator.

MU 132 - Private Lessons (2)

Individual instruction in selected instruments or voice. One-hour lesson per week. Fee required. Students receive 10 lessons per semester.

Prerequisite: By permission of academic music program coordinator.

MU 136 - Concert Band (1)

This course develops students' talents and musicianship through participation in a performing instrumental group. The ensemble presents a wide variety of interesting and significant repertoire arranged and written for concert band, in both on-and-off campus concerts and events.

Prerequisite: Audition and permission by band director.

MU 137 - Concert Choir (1)

This course develops students' talents and musicianship through participation in a larger vocal ensemble. The choir focuses on the training in and performance of interesting and significant choral works from many different cultures and historical periods. Participants perform in concerts and events both on and off campus.

Prerequisite: Vocal interview and permission by director of choral programs.

MU 138 - Jazz Ensemble (1)

This course develops students' musicianship and musical talent in a contemporary musical art form. The jazz workshop approach develops stylistic and improvisational skills with the goal of presenting concerts and performing.

Prerequisite: By permission of academic music program coordinator.

MU 139 - Guitar Ensemble (1)

This course develops students' talents and musicianship through participation in a performing instrumental group. The ensemble presents a wide variety of repertoire arranged and written for guitar in both on- and off-campus concerts and events.

Prerequisite: By permission of academic music program coordinator.

MU 140 - Movement for Musicians (1)

This course is designed to introduce student musicians to the fundamentals of traditional and contemporary dance. This class will provide an overview of terminology, technique and showmanship for non-dancers with an emphasis on basic ballet, jazz and modern dance movement.

MU 141 - The Beatles' Legacy (3)

Students will study the music and cultural impact of The Beatles. Focus will be on the innovativeness in their songwriting, lyrics, recording techniques, and how they changed history.

MU 198 - Liturgical Choir (1)

This ensemble is open to all singers and instrumentalists by audition who wish to participate in the music of the Sunday evening liturgy. Students meaningfully experience and appreciate the vibrant heritage of the Catholic music tradition. Both contemporary and traditional styles of music are offered in the spirit of prayer. Through practice and presentation of appropriate music, musical skills are utilized, encouraged, and further developed.

Prerequisite: Audition.

MU 233 - 4 Heart Harmony (1)

This advanced mixed chamber choir performs a wide variety of significant and interesting music, including a capella, jazz, pop, show tunes, multicultural, and classical choral repertoire. Participants perform in concerts and events both on and off campus. Members are experienced choral singers and the ensemble is open by interview and vocal audition.

Prerequisite: Permission by director of choral programs.

MU 235 - Sight Singing III (1)

This course further develops the musical skills achieved in Sight Singing I and II, including advanced melodies and basic harmonic recognition.

A prerequisite to MU 236

Prerequisite: MU 116 Sight Singing II or by permission of academic music program coordinator.

MU 236 - Sight Singing IV (1)

This course concludes the musical skills that were achieved in Sight Singing I, II, and III, including advanced melodies outlining advanced harmonies.

Prerequisite: MU 235 Sight Singing III or by permission of academic music program coordinator.

MU 299 - Special Topics in Music (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

NU - Nursing

NU 205/205L - Foundations of Professional Nursing (3)

This course introduces the student to the profession of nursing. The student builds upon foundational knowledge from the liberal arts, sciences, and humanities and applies this to the course content using the nursing process. The metaparadigm of nursing is presented in conjunction with the University's mission and organizing framework. Students are introduced to the concepts of caring-healing health promotion, disease injury/prevention, effective intraprofessional communication, and demonstration of the teaching/learning process as part of patient-centered care. Skills basic to nursing practice, safety, documentation, and regulatory guidelines that influence nursing practices are presented. Laboratory and simulated experiences are coordinated to offer the student practical experience with selected patients in providing basic nursing care in a professional caring manner. Students will demonstrate effective use of available technologies to assess and monitor patient care.

A prerequisite to NU 210, NU 215, and NU 310

Prerequisite: BI126/127 Nursing Anatomy & Physiology I with Lab, BI128/129 Nursing Anatomy & Physiology II with Lab, CH 117/119 General Organic & Biochemistry: An Overview with Lab, and MA 105 Mathematical Applications for Health Sciences .

NU 210 - Health & Wellness & Cultural Diversity (2)

This course introduces the student to basic concepts, theories, and methods of exploring the health, wellness, and cultural diversity of individuals and groups. Common factors that promote the health and wellness of individuals across the lifespan are explored. Cultural diversity expands this discussion to include the meaning and impact of culture on health and wellness through the exploration of cultural phenomenon such as perceptions regarding time, communication, social organization, and healing traditions. Values clarification related to a person's culture as a part of the process of developing cultural awareness and competence is discussed. Disparities related to access to care and economic barriers are discussed including vulnerable populations. Current evidence related to the impact of culture on healthcare systems and treatment by culturally competent practitioners is included.

Prerequisite: NU 205/205L Foundations of Professional Nursing, NU 215/215L Health Assessment, NU 220/220L Pharmacology & Nursing Implications, and NU 310 Pathophysiology.

NU 215/215L - Health Assessment (3)

This course introduces assessment components including interviewing, history taking, functional assessment, and physical examination of patients across the lifespan with an emphasis on health promotion and disease/injury prevention. Emphasis focuses on the assessment phase of

the nursing process using a systems focused assessment approach. This course begins with foundational concepts of professionalism, patient-centered care, and safety. Students will examine patients using a head-to-toe approach. Additional course content focuses on the role of the nurse, inter- and intra-professional communication, data collection, documentation, and patient teaching. Students begin to develop critical thinking skills to begin identifying problems and deficits in an effort to guide the development of a plan of care.

A prerequisite to NU 210, NU 300, and NU 330

Prerequisite: NU 205/205L Foundations of Professional Nursing and NU 220/220L Pharmacology & Nursing Implications.

NU 220/220L - Pharmacology & Nursing Implications (3)

This course introduces students to basic concepts of pharmacology used to promote, support, and restore the health status of individuals. Course content will focus on the pharmacodynamics and the pharmacotherapeutics of a broad range of drugs and their biologic, psychosocial and cultural role in health and illness. Critical thinking with the application of the nursing process will be stressed in the assessment of patient responses, discussion of nursing implications of various drug groups, therapeutic interventions, and related evaluations. Throughout the course, issues of legal, ethical, and professional accountability will be addressed as they pertain to the safe administration of medications. Laboratory practice focuses on the development of medication administration and supporting documentation.

A prerequisite to NU 210, NU 215, and NU 310

Prerequisite: BI 126/127 Nursing Anatomy & Physiology I with Lab, BI 128/129 Nursing Anatomy & Physiology II with Lab, CH 117/119 General Organic & Biochemistry:An Overview with Lab, and MA 105 Mathematical Applications for Health Sciences.

NU 296/297 - Sophomore Seminar (0)

This course allows for sophomore nursing students to test simultaneously. Testing has a critical role in the nursing program and specific guidelines are reviewed and implemented to ensure academic integrity is upheld. Specific testing software is utilized, which requires all students to have a personal laptop. No grade is associated with this course as exams are associated with other nursing courses.

NU 299 - Special Topics in Nursing (3)

Designated new or occasional courses that may or may not become part of the department's permanent course offerings. Prerequisites are established by the department as appropriate for the specific course. Course title is shown on the student's transcript.

NU 300 - Psychiatric-Mental Health Nursing (4)

This course is designed to introduce students to the basic concepts and frameworks of psychiatric and mental health nursing. The course provides an introduction to the assessment and treatment of patients with mental health challenges. Traditional psychotherapeutic and alternative healing methods are discussed. Continuing themes of growth and development across the lifespan including gerontology, safety, evidence-based practice, therapeutic communications, pharmacotherapeutics, client advocacy, teaching, and patient-centered care are explored. Concepts related to social/ethical/legal considerations

in relation to this vulnerable population are applied. Emphasis is placed on professionalism, communication, and personal self-awareness and self-growth as well as interprofessional collaboration and communication. Students implement the nursing process and develop beginning-level clinical skills in individual and group recovery focused care at a variety of mental health agencies and with a diverse group of psychiatric clients.

A prerequisite to NU 340

Prerequisite: NU 215/215L Health Assessment, NU 310 Pathophysiology, and BI 161/162 Introduction to Microbiology with Lab.

NU 305 - Transition to Professional Practice (3)

This course is for RNs and is designed as a transition to the nursing major and as a forum to facilitate comparison between the scope of practice of the registered nurse and the baccalaureate-prepared nurse. Role behaviors of the baccalaureate practitioner will be analyzed and applied within a framework of the healthcare environment and the ethical, legal, and social issues that influence nursing practice. Critical thinking skills are developed as an essential component of professional practice.

A prerequisite to NU 376 and NU 387

Prerequisite: Acceptance to the RN-to-BSN Nursing Major.

NU 310 - Pathophysiology (3)

This course focuses on pathophysiology as it relates to the nursing actions and responsibilities needed to manage and provide care for clients who are experiencing acute or chronic physiologic health conditions. Reduction of risk potential including complications from existing conditions are explored as well as health promotion and disease prevention as it relates to the disease process. References to the aging process and genetics and their impact on pathophysiology will be included. Content builds on prior anatomy and physiology concepts learned in prerequisite coursework. Content from this course is the foundation for subsequent clinical courses in the program.

A prerequisite to NU 300, NU 330, and NU 340

Prerequisite: NU 205/205L Foundations of Professional Nursing and NU 220/220L Pharmacology & Nursing Implications; Pre- or Corequisites: NU 215/215L Health Assessment and BI 161/BI 162 Introduction to Microbiology with Lab.

NU 315 - The Human Journey of Nursing (3)

This course is for RNs. The Human Journey in Nursing utilizes the four questions posed in the Catholic Intellectual Tradition Seminars to address nursing's role in building a just society. Concepts such as human vulnerability, resiliency, spirituality, and cultural diversity will provide the platform from which discussions about the professions and the professional nurse's role in shaping past, current, and future healthcare will be based. Reflection on service-learning experiences will personalize and professionalize the meaning and responsibility for addressing health inequities within the workplace and the perpetuation of health disparities in society.

A prerequisite to NU 376 and NU 387

Prerequisite: Acceptance to the RN-to-BSN Nursing Major and CIT 201/202 Catholic Intellectual Tradition Seminars.

NU 325 - Health Assessment for RNs (3)

Utilizing the conceptual framework of the Nursing program, this course focuses on comprehensive health assessment. Adequate data collection and careful analysis for diagnostic and planning purposes is stressed. The student will use the diagnostic reasoning process to formulate nursing diagnoses. Videotaping assessment skills is a required course component.

A prerequisite to NU 376 and NU 387

Prerequisite: Acceptance to the RN-to-BSN or RN-to-MSN Nursing Major.

NU 330 - Care of the Childbearing Family (4)

This course focuses on the culturally sensitive nursing practice and care of women, newborns, and families along the continuum of their growth and development. Integrated concepts include multidisciplinary evidence-based research and interprofessional collaboration with the emphasis on the improvement of the health of the family. Legal and ethical issues that relate to the care of the family are interwoven. Clinical application of current research focuses on preconceptual, prenatal, perinatal, and postnatal experiences. Students demonstrate critical thinking, clinical reasoning, and clinical judgement when planning, implementing, and evaluating family-centered nursing care.

A prerequisite to NU 340

Prerequisite: NU 215/215L Health Assessment, NU 310 Pathophysiology, and BI 161/162 Introduction to Microbiology with Lab.

NU 335 - Information & Technology for Nursing Practice (3)

This course is for RNs and provides an introduction to information and technology needed for the practice of nursing today. It will focus on providing material to enable nurses to be computer literate by exploring the use of emerging information sources and communication technology and their impact on healthcare. Emphasis will be placed on trends and issues in clinical technology. It will also examine key issues such as security and the use of databases.

A prerequisite to NU 376 and NU 387

Prerequisite: Acceptance to the RN-to-BSN Nursing Major.

NU 340 - Introduction to Adult Nursing (5)

Introduction to Adult Nursing is the first in the two-course sequence of adult nursing. This course explores the roles of the nurse in relation to providing patient-centered care to patients with common medical/surgical health problems. Course content emphasizes health promotion, disease/ illness/ injury prevention, disease management, health restoration, and health maintenance. Continuing themes of pharmacotherapeutics, gerontological considerations, safety, evidence-based practice, therapeutic communication, as well as patient education and advocacy are explored. This course incorporates critical thinking, clinical reasoning, clinical judgment and basic leadership skills into classroom and clinical learning experiences. A structured experience in the simulation lab is included to integrate the nursing process with new nursing interventions. Course content will focus on common health problems related to fluid and electrolytes, pulmonary, cardiovascular, urinary, gastrointestinal, and musculoskeletal disorders, problems of metabolism, sensation and perception, circulation, and perioperative care.

A prerequisite to NU 360 and NU 370

Prerequisite: NU 310 Pathophysiology, and NU 330 Care of the Childbearing Family. Pre- or Co-requisite to NU 374 Concepts in Child Health Nursing.

NU 345 - Evidence-Based Practice (3)

This course is for RNs and prepares nursing students to critically evaluate evidence developed through methodologies such as research and research protocols for its application to the practice of professional nursing. The course reviews levels of evidence and provides a foundational overview of quantitative and qualitative research methodologies. Ethical issues and policy agendas that influence research are considered throughout the course.

A prerequisite to NU 376 and 387

Prerequisite: Acceptance to the RN-to-BSN Nursing Major and MA 131 Statistics for Decision-Making.

NU 355 - Leadership in Contemporary Nursing Practice (3)

This course is for RNs and will focus on the professional nurse's role in applying theory and principles of leadership and management in organizations across the healthcare continuum. Focus will be placed on strategies necessary to function effectively in a changing healthcare system by exploring interrelated process of thinking systematically, developing reflective judgment, and exercising leadership. Strategies for managing the quality and cost of healthcare, as well as research utilization, are emphasized to promote effective practice.

A prerequisite to NU 376 and NU 387

Prerequisite: Acceptance to the RN-to-BSN Nursing Major.

NU 360 - Adult Nursing II (6)

Adult Nursing II is the second in the two-course sequence of adult nursing. This course explores the roles of the nurse in relation to providing patient-centered care to patients with complex medical/surgical health problems. Course content emphasizes health promotion, disease/injury prevention, disease management, health restoration and health maintenance. Continuing themes of pharmacotherapeutics, gerontological considerations, safety, evidence-based practice, therapeutic communication, multiculturalism, as well as patient education and advocacy are explored. This course incorporates critical thinking, clinical reasoning, and clinical judgment along with evidence-based practice and the utilization of informatics while promoting synthesis of knowledge and interprofessional collaboration. The clinical component of this course will support the learning of common health problems: pulmonary, cardiovascular, renal, gastrointestinal, hematological, oncological, infectious disease, hepatobiliary, and neurological. A structured experience in the simulation lab is included to practice advanced nursing interventions required to care for high-risk emergencies in a safe, controlled environment.

A prerequisite to NU 381, NU 390, and NU 395

Prerequisite: NU 340 Introduction to Adult Nursing. Corequisite: Pre- or Co-requisite to NU 374 Concepts in Child Health Nursing.

NU 365 - Evidence-Based Nursing Practice (3)

This course prepares students to discover, examine, and critically appraise current evidence in nursing and healthcare. Students develop skills needed to identify research questions in practice, analyze existing evidence, and develop strategies to integrate best current research with clinical expertise and patient/family preferences and values. Parameters for making a recommendation for an evidence-based practice change that enhances safety and promotes quality improvement is discussed. Students will conduct a literature search to identify and appraise current research to determine best practice related to a specific clinical question.

A prerequisite or co-requisite to NU 370 and NU 360

Prerequisite: Prerequisite or Co-requisite to NU 330 Care of the Childbearing Family, NU 340 Introduction to Adult Nursing, NU 360 Adult Nursing II, and MA 131 Statistics for Decision-Making. Corequisite: Prerequisite or Co-requisite to NU 330 Care of the Childbearing Family, NU 340 Introduction to Adult Nursing, NU 360 Adult Nursing II, and MA 131 Statistics for Decision-Making.

NU 370 - Nursing Leadership (3)

This course focuses on the nursing profession and leadership principles, which are integral to the provision of healthcare for individuals, families, communities, and a global society. Students explore complex issues and trends in nursing related to the provision of cost-effective, safe, quality patient care, nursing as a profession, policy and advocacy, and global health. The development of an understanding and awareness of their need to become involved in healthcare policies and changes in healthcare systems is fostered by an analysis of current issues such as cross-cultural communication, the nursing shortage, inefficient healthcare systems, and international issues. Discussion and assignments will include implementation strategies and skills for successful transition into the workplace environment and enter into practice.

Prerequisite: NU 340 Introduction to Adult Nursing.

NU 374 - Concepts in Child Health Nursing (4)

This course uses patient and family centered approach to explore anatomical, physiological, and developmental variations in children from infancy through young adulthood. Sociocultural influences on child health promotion are discussed as well as concepts related to safety, genetics, health education, acute and chronic disease management, injury prevention, palliative, and end-of-life care. Course content focuses on the application of clinical judgment, evidence-based practice, and selected elements of growth and development. Students engage in intra- and interprofessional collaboration and communication while advocating for the needs of this vulnerable population. Clinical experiences include laboratory simulation and psychomotor skill development. Students demonstrate professionalism and increasing levels of autonomy while providing care that is respectful and preserves human dignity.

A prerequisite to NU 381, NU 390 and NU 395

Prerequisite: Pre- or Co-requisite NU 340 Introduction to Adult Nursing & NU 360 Adult Nursing II. Corequisite: Pre- or Co-requisite NU 340 Introduction to Adult Nursing & NU 360 Adult Nursing II.

NU 376 - Care Management: Individuals & Families (4)

This course is for the registered nurse student and is focused on the elements of care management of individuals and families across the

healthcare continuum. This course will expand upon the concepts of care transitions from hospital to the community setting with an emphasis on the challenges related to transitioning such as financial management, resource utilization, and overall care coordination. Care management for individuals and families requires an understanding of family systems and the interaction of individuals with their family during healthy actual or potential health issues. A family assessment will be utilized to allow the registered nurse student the opportunity to develop a plan that will promote a safe and productive transition to the community. Students will engage in analytic discussion to further develop their understanding of family systems, systems of care, clinical practice, and community nursing roles. Personal reflection on one's own practice in contemporary nursing will be included in order to allow the student to think holistically, ethically, and morally as they grapple with real-world challenges and contemporary care management issues in our healthcare environment.

A prerequisite to NU 387

Prerequisite: Acceptance to the RN-BSN or RN-MSN Programs, NU 305 Transition to Professional Practice, NU 315 The Human Journey of Nursing, NU 325 Health Assessment for RNs, NU 335 Information & Technology for Nursing Practice, NU 345 Evidence-Based Practice, and NU 355 Leadership in Contemporary Nursing Practice.

NU 381 - Public Health Nursing (5)

This course focuses on providing population-focused care. Community and family assessments identify the need for intervention strategies that support health promotion and disease/injury prevention while promoting optimal functioning of various populations. Nursing services/interventions are delivered based on this assessment with an emphasis on vulnerable populations and cultural variations in the community.

Collaboration with community agencies/institutions and health care systems provide an opportunity to practice health promotion activities that address current or emergent health needs of specific populations. The development of community partnerships is a focus and encourages student engagement.

Prerequisite: Pre-requisite: NU 360 Adult Nursing II, NU 374 Concepts in Child Health Nursing, NU 370 Nursing Leadership.

NU 382 - Management of Home Healthcare Agencies (3)

This course is a required elective for the Home Healthcare Management Certificate and is designed for students interested in the application of basic management concepts in home health settings. This course will expand on basic concepts of leadership and management and explore unique aspects of management in non-institutional settings. Major emphasis will be placed on the basics of home healthcare financing covering such areas as Medicare, Medicaid, fraud, and insurance coverage. State and federal regulations that affect risk management will be discussed as they apply to home healthcare management. Course discussions will address additional concepts such as accreditation, licensure, continuous quality management, ethics, and legal issues of home healthcare management.

NU 387 - Populations & Global Health Nursing (5)

This course is for RNs and focuses on global communities as consumers of health services. The different perspectives, sensitivities, and application of knowledge unique to nursing of populations, communities, and societies are identified. Effectiveness of nursing practice is explored in relation to the problems, priorities, attitudes, culture, and resources of aggregates, groups, the community, and global health needs.

Prerequisite: Acceptance to the RN-to-BSN Nursing Major, NU 305 Transition to Professional Practice, NU 315 The Human Journey of Nursing, NU 325 Health Assessment for RNs, NU 335 Information & Technology for Nursing Practice, NU 345 Evidence-Based Practice, and NU 355 Leadership in Contemporary Nursing Practice or acceptance to the RN-to-MSN Nursing Major, NU 325 Health Assessment for RNs, NU 376 Care Management: Individuals & Families, NU 401 Impact of History & Policy on Nursing & Healthcare, NU 430 Principles of Healthcare Research for Contemporary Nursing Practice, NU 431 Evidence-Based Practice for Quality Care, and NU 433 Theory & Professional Roles for Contemporary Nursing Practice.

NU 390 - Senior Synthesis Seminar (3)

This course prepares the student for the role of the graduate registered nurse. Topics such as malpractice, role development, delegation, prioritization, and lifelong learning are addressed. Critical discussions of professional issues prepare graduates for a successful transition into their first nursing role. Students apply and synthesize previous course content while demonstrating accountability to self, peers, and the program as they prepare to take the NCLEX-RN exam. Students identify individual learning needs and develop a learning contract to meet deficiencies. Content mastery testing is used to prepare and evaluate students' achievements towards NCLEX-RN examination.

Prerequisite: NU 360 Adult Nursing II, NU 374 Concepts in Child Health Nursing, and NU 370 Nursing Leadership.

NU 395 - Transitions into Professional Nursing Practice (4)

This clinically based immersion experience is focused on refining knowledge, skills, and attitudes necessary to manage patient/client care as part of an interprofessional team within an evolving healthcare system. Critical thinking skills are strengthened as student's transition from classroom and laboratory settings into professional practice. The intensive-clinical experience supports objectives identified in the Senior Synthesis Seminar. Students demonstrate and use evidence-based research to support clinical judgment. Students analyze and reflect on experiences encountered within the clinical arena. Emphasis is on supporting the student toward autonomous professional nursing practice.

Prerequisite: NU 360 Adult Nursing II, NU 374 Concepts in Child Health Nursing, and NU 370 Nursing Leadership.

NU 396/397 - Junior Seminar (0)

This course allows for junior nursing students to test simultaneously. Testing has a critical role in the nursing program and specific guidelines are reviewed and implemented to ensure academic integrity is upheld. Specific testing software is utilized, which requires all students to have a personal laptop. No grade is associated with this course as exams are associated with other nursing courses.

NU 401 - Healthcare Policy & Ethics for Contemporary Nursing Practice (3)

The first of two integrated required nursing courses in the core curriculum of the graduate nursing programs, this course focuses on history and policy. Current practices in nursing and healthcare are viewed from the past and present as a way to contemplate the future. Building on a framework of critical thinking, students explore through discussion, written critiques, readings, research, and class participation, the history of nursing and medicine, analysis of current policy development, and implications of the past for present and future actions in nursing and healthcare.

A prerequisite to NU 387

Crosslisted as: NU 501.

NU 430 - Principles of Healthcare Research for Contemporary Nursing Practice (3)

This course, the first of two research seminars, reviews nursing and healthcare research literature according to criteria. Course content focuses on the development of a researchable problem, integrative literature review, and research design. Content related to quantitative, qualitative, and evaluative methods is outlined. Concepts are developed to promote an understanding of the research process within the context of a research proposal.

A prerequisite to NU 387

Prerequisite: MA 131 Statistics for Decision-Making. Crosslisted as: NU 601.

NU 431 - Evidence-Based Practice for Quality Care (3)

Builds on the content of NU 430 and begins with principles inherent to a sound research methodology. Included in the course are both philosophical and pragmatic differences between qualitative and quantitative methods of data collection and analysis. Content areas of substance include both data collection methods and analysis using computer software. Students complete the methods section of the thesis prospectus during this semester.

A prerequisite to NU 387

Prerequisite: NU 602.

NU 433 - Theory & Professional Roles for Contemporary Nursing Practice (3)

Focuses on ethical dimensions of clinical and administrative practice in nursing. Broad philosophical issues that have direct impact on healthcare are explored. Beginning with a reflection of one's own values, the course examines the philosophical basis of nursing ethics, applications of ethical principles, and the ethical decision-making process. Because reflection, dialogue, and critical thinking are essential to understanding ethical practices, the majority of the classes use a seminar format.

A prerequisite to NU 387

Prerequisite: NU 530.

NU 475 - Health Care Information Systems

Nursing Informatics combines knowledge and skills from nursing science, computer science, information science, and cognitive science to identify, define, manage and communicate data, information, knowledge, and

wisdom in nursing practice. Core concepts will be discussed in relation to the application of nursing informatics to support nursing practice and enhance outcomes of care. Major topics related to nursing informatics will be explored. The use of informatics to enhance patient care delivery, quality, and safety in healthcare systems will be emphasized.

NU 496 - Senior Seminar (0)

This course allows for senior nursing students to test simultaneously. Testing has a critical role in the nursing program and specific guidelines are reviewed and implemented to ensure academic integrity is upheld. Specific testing software is utilized, which requires all students to have a personal laptop. No grade is associated with this course as exams are associated with other nursing courses.

NUR - Nursing Associate Degree

NUR 101 - Introduction to Nursing Practice

This course is designed to introduce students to selected concepts and theories which will be used as a foundation throughout the curriculum. Emphasis is placed on the use of the nursing process as well as teaching – learning concepts, basic communication, applied nutritional concepts, pharmacological concepts, dosage calculations, assessment and technical skills, deficits and disorders related to the musculoskeletal and sensory systems and pain management.

7 credit hours (60 hours theory; 135 hours clinical)

Pre-Requisites: BI 126/127, BI 128/129, FYWS 125, MA 105, PS 110

Co-Requisite: CTL 125

NUR 122 - LPN Transition Course

This course is designed to introduce students to the basic tenets of the program in nursing as well as the conceptual framework. Emphasis is placed on a health needs assessment and the implementation of the nursing process through the use of the nursing care plan. This course is open to licensed practical nurses who are participating in the Connecticut Articulation Model for Nurse Educational Mobility.

1 credit hour (7 hours theory, 21 hours clinical)

Pre-Requisites: BI 126/127, BI 128/129, BI 161/162, FYWS 125, MA 105, PS 110, PS 251, CTL 125, LPN Bridge Course

NUR 123 - Family Concepts in Nursing

This course is designed to offer the student the opportunity to utilize the nursing process in the care of the family during the childbearing and the child-rearing years through adolescence. Concepts of nutrition and pharmacology are integrated throughout the course.

4 credit hours (45 hours theory, 45 hours clinical)

Pre-Requisites: NUR 101

Co-Requisites: BI 161/162, NUR 124, PS 251

NUR 124 - Adult Child Nursing I

This course is designed to offer the student the opportunity to utilize the nursing process to care for patients with disorders and dysfunction in specific physiological systems: gastro-intestinal, reproductive, endocrine and peripheral vascular. Students are offered experience in pre-, peri-, and post-operative nursing care. Concepts of nutrition and pharmacology are integrated throughout the course.

5 credit hours (37.5 hours theory; 112.5 hours clinical)

Pre-Requisites: NUR 101

Co-Requisites: BI 161/162, NUR 123, PS 251

NUR 230 - Adult Child Nursing II

This course is designed to offer the student the opportunity to use the nursing process to care for patients with disorders and dysfunctions in specific psychophysiological systems: neurologic and psycho-social. Students are offered experiences in specialized care units. Concepts of nutrition and pharmacology are integrated throughout the course.

5 credit hours (37.5 hours theory, 112.5 hours clinical)

Pre-Requisites: NUR 122 or NUR 123/124

Co-Requisites: NUR 231, CIT 201

NUR 231 - Adult Child Nursing III

This course is designed to offer the student the opportunity to use the nursing process to care for patients with disorders and dysfunction in specific physiological systems: hepatic-biliary, immune, and hematologic. This course also presents opportunities to care for patients with fluid and electrolyte imbalance, abnormal cell proliferation, and burns, with clinical experience in emergent care offered. Concepts of nutrition and pharmacology are integrated throughout the course.

6 credit hours (45 hours theory, 135 hours clinical)

Pre-Requisites: NUR 122 or NUR 123/124

Co-Requisites: NUR 230, CIT 201

NUR 232 - Adult Child Nursing IV

This course is designed to offer the student the opportunity to use the nursing process to care for patients with disorders and dysfunctions in specific physiological systems: cardiovascular, pulmonary, and renal. Concepts of nutrition and pharmacology are integrated throughout the course.

6 credit hours (45 hours theory, 135 hours clinical)

Pre-Requisites: NUR 230/231

Co-Requisites: NUR 270, PH 251, Humanities Elective

NUR 270 - Nursing Seminar

This course facilitates student synthesis of total program content and experiences. Students are offered opportunities to fully incorporate the values of the profession, principles of leadership and management, and legal-ethical concepts in their nursing care.

3 credit hours (15 hours theory, 90 hours clinical)

Pre-Requisites: NUR 230/231

Co-Requisites: NUR 232, PH 251, Humanities Elective

PH - Philosophy

PH 221 - Historical Development of Philosophy (3)

Students will gain an understanding of the broad narrative of Western philosophy by studying texts from significant philosophers in several historical periods.

PH 224 - Introduction to Ancient Philosophy (3)

An examination of the beginnings of Western philosophic thought from the pre-Socratics through the Hellenistic period, with extensive consideration of Plato and Aristotle.

PH 229 - Eastern Philosophy (3)

Study of key philosophical texts and thinkers of India, China, Japan, and Southeast Asia.

PH 231 - Introduction to the Philosophy of Knowledge (3)

The conditions that make knowledge possible and the criteria of truth and falsity. Selected representative historical thinkers.

PH 240 - Introduction to the Philosophy of Beauty (3)

What is art and how is it different from non-art? What is the nature of our appreciation of beauty? These are questions that frame this introductory course in aesthetics.

PH 241 - Medieval Philosophy

The Aristotelian tradition as developed within Islam, Judaism, and Christianity.

PH 243 - Introduction to Modern Philosophy (3)

PH 251 - Introduction to Ethics (3)

Are there good reasons for acting morally? Are consequences relevant to the morality of actions, or only our intentions? What is the nature of moral virtue? What is a good life? This course provides systematic analysis of such questions, drawing from important works in the history of moral philosophy and engaging with pressing contemporary ethical issues.

PH 255 - Introduction to Social & Political Philosophy (3)

Investigates the philosophical foundations of political authority and social organization. Concepts such as freedom, equality, justice, and power are explored through engagement with primary texts.

PH 272 - Introduction to Metaphysics (3)

Investigates some of the great themes of European philosophy and the problem of metaphysics as the intellectual inquiry which is supposed to clarify the nature of reality.

PH 274 - Existentialism (3)

The study of individual existence as the situation in which one makes meaning through free and responsible choices. Primary authors are the nineteenth- and twentieth-century existentialists such as Kierkegaard, Nietzsche, Camus, and Sartre although earlier philosophers may be studied as well for their existentialist themes.

PH 280 - Logic (3)

This course is an exercise in the formal study of arguments and inference. Particular attention is given to symbolic representations of systems of rationality and to what makes an argument valid or invalid.

PH 281 - Historical Development of Philosophy (3)

Students will gain an understanding of the broad narrative of Western philosophy by studying texts from significant philosophers in several historical periods.

PH 290 - Foundational Topics in Philosophy (3)

Designates new or occasional courses that present the opportunity to study a major era, theme, or set of thinkers in philosophy, at the foundational level. Consult the current course schedule for available topics.

PH 299 - Special Topics in Philosophy (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and prerequisites.

PH 302 - Philosophy of Science (3)

Selected topics in the philosophy of science are explored such as the distinction between science and pseudoscience; the nature of confirmation, refutation, and explanation; realism and antirealism about scientific theories; and the possibility of conflict between science, religion, and the law.

Prerequisite: One 3-credit PH course.

PH 303 - Philosophy of Technology (3)

Examination of the nature of technology, its relationship to science, and its influence on our understanding of reality and ourselves. Particular metaphysical, ethical, or sociocultural aspects of philosophy of technology may be emphasized.

Prerequisite: One 3-credit PH course.

PH 306 - Problem of Authenticity (3)

An examination of the problem of being true to oneself informed by existential ontology and ethics.

Prerequisite: One 3-credit PH course.

PH 307 - Philosophy of Lived Experience (3)

Introduces phenomenology as a working method for philosophical reflection on lived-experience. Topics include the distinction between the natural and phenomenological attitudes; the intentional structure of consciousness; the basic analysis of cognitive, evaluative, and volitional experience; and the phenomenological critique of naturalism, dualism, and subjective idealism.

Prerequisite: One 3-credit PH course.

PH 308 - Game Theory and Philosophy (3)

The foundations and some applications of decision theory and game theory are introduced, e.g. decision equilibria, Bayesian learning, paradoxes of rationality, risk assessment, environmental policy, nuclear brinkmanship, cooperation theory and evolutionary theory.

Prerequisite: Any 200-level Philosophy course.

PH 309 - Theories of Justice (3)

Explores theories of social, political, and economic justice from the ancient to the modern and contemporary periods.

Prerequisite: One 3-credit PH course.

PH 310 - Philosophy of Race (3)

Investigates the many philosophical issues surrounding race and racial identity. Some issues are metaphysical, such as what races are and whether race is a "real" feature of persons or not. Other issues are moral and political issues such as what racism is how it shapes our political landscape and how societies can combat it.

Prerequisite: One 3-credit PH course.

PH 311 - Women, Gender, & Philosophy (3)

Philosophical investigation of the ways that sex and gender shape our lives, experiences, and societies. Are there natural differences between men and women? Does our gender provide us with a distinct ethical, political, or epistemological perspective? What does it mean to treat men and women equally? Course places special emphasis on women's contributions to various branches of philosophy.

Prerequisite: One 3-credit PH course.

PH 312 - Philosophy of Marx (3)

Philosophical foundations of Marx's thought in Aristotle, Hegel, Feuerbach, and other predecessors. Analysis of Marx's conceptions of alienation, exploitation, historical materialism, and his critique of liberal political thought. Various philosophical responses to Marxism and evaluation of its applicability to contemporary capitalist societies.

Prerequisite: One 3-credit PH course.

PH 313 - Contemporary Continental Philosophy (3)

Investigation of themes and methods that have emerged in continental philosophy since the mid-twentieth century. Topics may include the hermeneutic and deconstructivist challenges to phenomenology and existentialism, post-humanist approaches to ethics, post-structuralist approaches to society, and the metaphysics of structures and events.

Prerequisite: One 3-credit PH course.

PH 314 - Truth & Meaning (3)

Historical investigation of the nature of meaning and language, with a particular focus on work done since the mid-nineteenth century. Explores the relationship between the meaning of a proposition and the conditions for the possibility of its truth or verification, and the extent to which all meaning and understanding are (or are not) unified into a holistic "conceptual scheme."

Prerequisite: One 3-credit PH course.

PH 315 - Philosophy of Gender (3)

Philosophically examines the impact of feminism on concepts and practices of masculinity.

Prerequisite: One 3-credit PH course.

PH 320 - Philosophy of Augustine (3)

Examines Augustine's contribution to the development of Roman Catholic philosophy and theology.

Prerequisite: One 3-credit PH course.

PH 321 - Philosophy of Aquinas (3)

Thomas Aquinas' arguments on the existence and nature of God, human knowledge, the state, natural and divine law, virtue, grace, and the Incarnation.

Prerequisite: One 3-credit PH course.

PH 322 - American Philosophy (3)

Engages representative figures from American Transcendentalism and American Pragmatism in the attempt to answer the questions, "How shall I live?" "What can I know?" and "What is real?"

Prerequisite: One 3-credit PH course.

PH 323 - Philosophical Theology (3)

The problem of God before and after Kant's "Copernican Revolution," phenomenology of religion, and postmodern theology.

Prerequisite: One 3-credit PH course.

PH 330 - The Challenge of Islamism (3)

Deals with challenge of Islamism, a movement that seeks to offer an authentically Islamic alternative to Western thought, culture, and political order.

Prerequisite: One 3-credit PH course.

PH 333 - Philosophy of Plato (3)

The nature of the philosophical life is examined through an exploration of selected Platonic dialogues.

Prerequisite: One 3-credit PH course.

PH 334 - Philosophy of Aristotle (3)

Emphasizes the ethics, politics, and metaphysics of the Aristotelian system and its contrast to the Platonic synthesis.

Prerequisite: One 3-credit PH course.

PH 341 - Aesthetics: Philosophy of Art & Beauty (3)

In-depth study of aesthetics, which is the theoretical attempt to explicate the essence of art by defining its nature, its specific function, and the grounds for its recognition and appreciation.

Prerequisite: One 3-credit PH course.

PH 342 - Philosophy of Performing Arts (3)

Presents influential accounts of the nature of beauty and of art in the history of Western philosophy, as a basis for examining the nature of performance. Students will develop an understanding of how the performative and improvisational dimensions of performing arts give them a unique character among art forms.

Prerequisite: One 3-credit PH course.

PH 343 - Philosophy of Film (3)

Uses contemporary films to lead students through advanced philosophical examination of issues such as epistemology, ethics, religion, technology, and the nature of the mind.

Prerequisite: One 3-credit PH course.

PH 344 - Philosophy & Literature (3)

Inquires how encountering great literature can help one wrestle with longstanding philosophical questions. Students read novels and stories and analyze them in light of philosophers associated with existentialism, phenomenology, and aesthetics.

Prerequisite: One 3-credit PH course.

PH 345 - Philosophy of Music (3)

Philosophical examination of music and its relationship to beauty.

Prerequisite: One 3-credit PH course.

PH 350 - Environmental Philosophy (3)

Understanding of the various philosophical and ethical issues raised by a consideration of the environment and of humans' place within it.

Prerequisite: One 3-credit PH course.

PH 351 - Philosophy of Psychology (3)

Investigates philosophical questions that arise in establishing psychology as a science. Explores field-defining concepts such as soul and mind, as well as particular problems pertaining to the division and connection of mental phenomena. Specific themes may be emphasized, such as the relation between psychology and physiology, the practical value of psychology, the normal and the abnormal, and the comparability of human and animal.

Prerequisite: One 3-credit PH course.

PH 352 - Philosophy of Law (3)

The philosophical study of the nature of law, the legal system's relationship to natural law, and theories of jurisprudence.

Prerequisite: One 3-credit PH course.

PH 353 - Bioethics: Philosophical Approaches (3)

Examines the ethical and legal issues surrounding abortion, physician-assisted suicide, euthanasia, genetic cloning, genetic therapy/enhancement, genetic patenting, and healthcare allocation.

Prerequisite: One 3-credit PH course.

PH 354 - Virtues, Acts, & Consequences (3)

In-depth analysis of the three major normative theories of ethics—virtue ethics, deontology, and consequentialism—with some attention to metaethics.

Prerequisite: One 3-credit PH course.

PH 355 - Happiness & the Good Life (3)

Examines some of the most important texts in the philosophical tradition on the questions of happiness and human flourishing.

Prerequisite: One 3-credit PH course.

PH 360 - Evolution, Philosophy, & Christianity (3)

To gain an understanding of evolutionary biology and the philosophical difficulties it creates for Christianity and our understanding of human nature.

Prerequisite: One 3-credit PH course.

PH 361 - Modern Philosophy (3)

European and Anglo-American philosophy from the seventeenth-century Enlightenment to the early twentieth century.

Prerequisite: One 3-credit PH course.

PH 363 - Philosophy of Space & Time (3)

Investigates the concepts of space and time with reference to ancient Enlightenment and contemporary philosophy.

Prerequisite: One 3-credit PH course.

PH 365 - German Philosophical Tradition (3)

The philosophical traditions from Germany, from Leibniz in the seventeenth century through contemporary writers.

Prerequisite: One 3-credit PH course.

PH 366 - Philosophy of Kant (3)

The philosophical writings of Immanuel Kant (1724-1804), one of the giants of Western philosophy.

Prerequisite: One 3-credit PH course.

PH 367 - Philosophy of Hegel (3)

The philosophical writings of Georg Wilhelm Friedrich Hegel (1770-1831), the preeminent philosopher of German Idealism.

Prerequisite: One 3-credit PH course.

PH 376 - Philosophy of the Person (3)

Reflections on the nature and meaning of human existence from a range of historical eras.

Prerequisite: One 3-credit PH course.

PH 380 - Love in the Western Tradition (3)

Examines the idea of love in the Western intellectual tradition, from the Greeks to today. Philosophical problems arising from the scientific study of love and altruism are also investigated.

Prerequisite: One 3-credit PH course.

PH 390 - Major Capstone (3)

A topical seminar, drawing upon skills and content developed in the Philosophy major. The student will write and defend a major research project. For PH majors only.

PH 391 - Philosophical Topics in Beauty (3)

Designates new or occasional courses that present the opportunity to study the theme of the search for beauty. Consult the current course schedule for available topics.

Prerequisite: One 3-credit PH course.

PH 392 - Philosophical Topics in Freedom & Equality (3)

Designates new or occasional courses that present the opportunity to study the theme of freedom, equality, and the common good. Consult the current course schedule for available topics.

Prerequisite: One 3-credit PH course.

PH 393 - Philosophical Topics in Wellness (3)

Designates new or occasional courses that present the opportunity to study the theme of wellness and well-being. Consult the current course schedule for available topics.

Prerequisite: One 3-credit PH course.

PH 397 - Internship in Philosophy (1-3)

Offers an opportunity for qualified philosophy majors to gain practical experience in an area to which the discipline applies. Internships are arranged in advance of the semester in which they are to be taken.

Prerequisite: Permission of Philosophy faculty.

PH 399 - Major Capstone

A topical seminar drawing upon skills and content developed in the Philosophy major. The student will write and defend a major research project. For PH majors only.

PO - Political Science

PO 121 - Introduction to American Government (3)

Examines the theoretical foundation of American government, the U.S. Constitution, political behavior, interest groups, political parties, Congress, the presidency, and the Supreme Court.

A prerequisite to PO 212, PO 215, PO 216, PO 217, PO 325, PO 351, and PO 352; SW 265 and SW 266

PO 122 - Introduction to International Relations (3)

Focuses on fundamental factors in understanding international relations. Sovereignty, nation-states, national interests, power, diplomacy, United Nations, war, terrorism, ethnicity, low-intensity warfare, the environment, and global politics are studied.

PO 123 - Human Rights & Social Justice (3)

This course will introduce students to current and historical issues and controversies of human rights and social justice through case studies, lectures, and group work.

Distribution: Govt Pol and Global Studies. Offered: Spring Semester Odd Years.

PO 200 - Research Methods (3)

Required of majors, this course introduces students to the ways in which government and politics is studied in the discipline. Students will examine and compare the strengths and weaknesses of a number of qualitative and quantitative methods, in preparation for work in other courses and in particular their senior research project.

PO 212 - American State & Local Government (3)

Examines the subnational level of American politics. Topics include the constitutional position of state governments, federal-state interaction, financing of state governments, political parties, group activity, and public policies.

Prerequisite: PO 121 Introduction to American Government.

PO 215 - Political Parties (3)

Focuses on the role of political parties in American democracy. Examines the structure and function of party organization, behavior of the American electorate, and effectiveness of parties in the governing process. Platforms and categories of minor parties are also discussed.

Prerequisite: PO 121 Introduction to American Government.

PO 216 - Congress & the Legislative Process (3)

Examines the constitutional powers of Congress, historical development, legislative process, and relationship with executive branch of government.

Prerequisite: PO 121 Introduction to American Government.

PO 217 - The American Presidency (3)

Traces the role of the President within the American political system. Attention is given to the evolution, functions, and limits of presidential leadership. Relationship with Congress, public opinion, and impact of individual presidents are explored.

Prerequisite: PO 121 Introduction to American Government.

PO 218 - The Politics of Presidential Elections (3)

Explores the various dimensions of presidential elections and controversial issues associated with the selection process. Topics include delegate selection, national conventions, voting behavior, role of media, campaign finance, the electoral college, campaign strategies, and presidential debates.

Prerequisite: PO-121 Introduction to American Government.

PO 240 - War & Conflict (3)

Topics include the causes of war, case studies of major wars, theories of instinctual aggression, psychological behavior, ethnicity, national interests, imperialism, economics, international systems, and other topics.

PO 242 - International Organizations (3)

Focuses on the role of international organizations in coordinating relations between countries with specific reference to the United Nations. Impact of other international organizations on international relations including WTO, IMF, and EU is also examined. Course includes a trip to the United Nations.

PO 243 - Terrorism (3)

History and evolution of terrorism in its global, cultural, psychological, religious, and secular contexts. Special focus on military, diplomatic, political, and economic responses as nuclear, chemical, biological, and cyber warfare capabilities spread in the 21st century.

PO 244 - American Foreign Policy (3)

Examines themes of American foreign policy. Topics include containment, deterrence, détente, changing bases of national power, foreign policy development, terrorism, narco-criminality, and environmental issues.

PO 298 - Democracy (3)

Examines the theories and practices surrounding popular government from its origins to the present day. Topics include representation, presidentialism, and democratization.

PO 299 - Special Topics in Political Science (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

PO 304 - American Political Thought (3)

This course examines documents related to the founding and other readings that shape, question, and are inspired by political life in our country. The Federalist Papers, are explored, along with the writings and speeches of political observers and statesmen.

PO 305 - Ethics & Politics (3)

Explores the relationship between ethics, public service, and public policymaking. Virtue, integrity, honor, and trust are central themes.

PO 308 - Theories of Political Economy (3)

Examines the foundation of and challenges to market capitalism. The role of political actors, shortcomings of the market, and the trend toward globalization are emphasized. Seminal works of Adam Smith, Karl Marx, John Maynard Keynes and other economic theorists are explored.

PO 313 - Politics of European Integration (3)

Explores the political complexities associated with the integration of European nations. The structure and function of European governing institutions are examined and analyzed.

PO 314 - Middle East Politics (3)

Problems and prospects of the Middle East. Area history, culture, Islam, intrusion of the West, oil, impact of personalities, Arab-Israeli problem, modernization, and Islamic fundamentalism are studied.

PO 315 - Latin American Politics (3)

An introduction to the political culture and structures of Latin America. Explores key themes and challenges for the region, including democratization, economic development, violence and revolution, militarism, and the relationship with the United States.

PO 316 - South Asian Politics (3)

Explores South Asia as a region with special emphasis on India, Pakistan, Afghanistan, and Bangladesh. Domestic and international politics of these countries are examined along with bilateral relations. Role of South Asia in a globalized world is studied in light of growing political, cultural, and economic interdependence.

PO 317 - African Politics (3)

Examines Africa as it has evolved over the years under outside influence—colonial rule, post-colonial or Cold War period, and under globalization during the 1990s. Explores reasons for political conflict in Africa and barriers to conflict resolution. Africa's economic resurgence in the twenty-first century is also examined.

PO 318 - Contemporary European Politics (3)

A comparative analysis of several European political systems. Similarities and differences are explored with respect to governing structures, political culture, and patterns of political behavior.

PO 319/PS 224 - Political Psychology (3)

Themes and concepts related to the expanding field of political psychology. Topics include the impact of media, nationalism, extremism, and security. The psychology of leadership is examined through case studies.

PO 320 - Modern Political Economy (3)

Examines free-market and centralized approaches to economic development. Impact of approaches toward income distribution, welfare policy, healthcare, and social security are explored through case studies.

PO 321 - Public Administration (3)

Survey of organizational theories and professional skills useful to those contemplating public sector service. Addresses public service context, planning, budgeting, communication, leadership, and other skills.

PO 322 - American Public Policy (3)

Models of policymaking. Examines government policies toward civil, gender, and minority rights, crime, health, welfare, education, environment, and other areas.

PO 323 - American Education Policy (3)

Overview of the major issues and themes affecting education policy in the U.S. Historical, political, and social setting of American education are explored with special focus on the major actors involved in the policymaking process.

PO 324 - Islamic Political Movements

This course examines the rise and evolution of Islamic political movements that emanate their distinct identity from Islam by appealing to its foundational ideas and values. After briefly discussing the cultural, religious and political traditions of Islam, this course will address the phenomenon of "political Islam," its historical roots and ideological foundations.

PO 325 - Politics, Law, & Judicial Behavior (3)

Examines the judiciary's role in the American political process. Topics include the nature of law, political influence in judicial decision-making, court organization, judicial recruitment, and the powers and limitations of the judiciary.

Prerequisite: PO 121 Introduction to American Government.

PO 331 - Model UN (3)

Prepares students to participate in the four-day mock Model UN conference organized in the spring. Preparation includes position papers on issues specific to UN General Assembly Committees. Sacred Heart students represent an assigned country and participate in making policies and adopting resolutions in favor of their country.

PO 332 - International Political Economy (3)

An interdisciplinary course that lies at the crossroads of economics and politics. Explores the dynamic interplay between politics and economics in shaping developments in the global economy. Specific topics to be covered include the politics of international trade and finance, economic development, regional integration, and the role of financial institutions such as the World Trade Organization, the International Monetary Fund, and the World Bank.

PO 341 - International Law (3)

Traces the development of international law and reviews principles and cases in major topical areas.

PO 351 - Constitutional Law (3)

An inquiry into American constitutional law through the study of landmark cases. Attention is given to the development of constitutional doctrines and the processes of legal reasoning.

Prerequisite: PO 121 Introduction to American Government.

PO 352 - The First Amendment (3)

Examines U.S. Supreme Court cases involving the freedom of religion, speech, press, assembly, and petition. Special attention is given to the balance between personal liberty and societal order.

Prerequisite: PO 121 Introduction to American Government.

PO 391 - Internship Program (3-6)

Congressional district staff, state Capitol, or Washington, D.C. internships; election campaign and party organization internships; not-for-profit organization internships; and others. Research paper reflective of internship also required.

Prerequisite: Permission of department chair.

PO 395 - Senior Seminar in Political Science (3)

Advanced study of a particular theme or topic in a seminar setting.

Prerequisite: Senior standing or permission of department faculty.

PO 399 - Independent Study (1-3)

Guided study of a topic that goes beyond normal course offerings under the direction of a member of the Political Science faculty. Approval of the chair of the Political Science program required. By special arrangement.

SENIOR THESIS

An independent research project 35-40 pages in length conducted under the guidance of a faculty member.

PO 400 - Senior Thesis (3)

An independent research project 35-40 pages in length conducted under the guidance of a faculty mentor.

PS - Psychology

PS 110 - Introduction to Psychology (3)

Introduction to psychology as the science of behavior, focusing on the physiological, cognitive, learning, sociocultural, and psychodynamic bases of behavior. Note: Students must achieve a C or better in this course in order to take any 200- or 300-level psychology course, except for certain courses taken for TLA credit.

A prerequisite to BI 205; PS 201, PS 205, PS 212, PS 215, PS 220, PS 222, PS 233, PS 241, PS 252, PS 255, PS 273, PS 274, PS 275, PS 285, PS 295, PS 305, PS 313, PS 320, PS 331, PS 335, PS 351, PS 352, PS 353, and PS 389; PS 350/BI 205; SW 267

PS 201 - Research Design & Analysis I (3)

Students are introduced to research design and analysis concepts within the field of psychology, including the scientific method, sampling, measurement, research designs, ethics, and quantitative analysis. Analysis will include the use of SPSS computer software, interpreting output, and writing up statistical results.

A prerequisite to PS 302 (must earn a grade of C+ or higher in PS201)

Prerequisite: PS 110 Introduction to Psychology, MA 131 Statistics for Decision-Making or MA 133 Business Statistics, and one additional college-level mathematics course. Neither mathematics grade below C.

PS 205 - Psychology of Motivation (3)

Motivation concerns the processes that give behavior its energy and direction. This course introduces students to theory, concepts, and methods in the field of motivation. A variety of topics will be covered including the biological bases of motivation, behavioral approaches including drive and learning theories, cognitive approaches with its emphasis on competence and attribution theories, and the influence of emotion on motivation. Students will encounter empirical research in classroom discussions, textbook readings, and primary research reports. Hands-on experience will be gained by designing a motivational intervention.

Prerequisite: PS 110 Introduction to Psychology.

PS 211 - Human Sexuality (3)

An in-depth analysis of issues relating to human sexuality including historical perspectives and their significance, research evaluation, gender identity, communication, sexual response and sexual dysfunction and its treatment, influence of media on sexuality, and how sexuality is a component of overall wellness and well-being.

PS 212 - Abnormal Psychology (3)

Examines the causes, symptoms, and treatment of mental disorders from biopsychosocial scientific perspectives.

Prerequisite: PS 110 Introduction to Psychology.

PS 215 - Social Psychology: Interpersonal Factors (3)

Explores how people are affected by the persons around them. Topics include person perception, first impressions, interpersonal attraction, nonverbal communication, romantic love, prejudice, stereotyping, aggression, conformity, obedience, and environmental influences on behavior.

Prerequisite: PS 110 Introduction to Psychology.

PS 219 - SPSS & Data Management (3)

This course covers database management skills using SPSS, such as data entry, importing/merging datasets, data transformations, conducting descriptive statistics to clean data, safeguarding data, and creating graphs, tables and figures.

PS 220 - Drugs: Use & Abuse in Contemporary Society (3)

Examines the nature of drug use, legal and illegal, in contemporary society. Emphasis is on behavioral and physiological effects of psychoactive substances, addictions, rehabilitation strategies, and ethical issues.

Prerequisite: PS 110 Introduction to Psychology.

PS 222 - Sports Psychology (3)

Provides information on and facilitates understanding of individual sport behavior. Emphasis is on the psychological constructs and concepts that relate to and help explain the phenomena of sports performance.

Prerequisite: PS 110 Introduction to Psychology.

PS 224/PO 319 - Political Psychology (3)

Themes and concepts related to the expanding field of political psychology. Topics include the media, nationalism, extremism, and security. Psychology of leadership examined through case studies. This is a Political Science course but can be used as a Psychology elective.

PS 232 - Sports & Society (3)

This course examines the interaction of sports and society. It uses specific sporting events and overall sports trends to critically explore the impact that sports has on society.

PS 233 - Introduction to Clinical Psychology (3)

Provides an understanding of basic principles and tools used in clinical practice to implement behavioral interventions. Students are expected to master some of the elemental principles of cognitive-behavioral therapy and to demonstrate the applicability of these principles to their own experience.

Prerequisite: PS 110 Introduction to Psychology.

PS 236 - Psychology of Diversity (3.00 Credit(s))

The United States is an increasingly diverse place in terms of race, ethnicity, religion, gender, sexual orientation, disability, etc. This course will examine and investigate the psychological science of diversity which includes prejudice, stereotyping, discrimination, and stigma as well as strategies to reduce inter-group bias and increase fairness as well as justice.

Distribution: Psychology. Offered: Fall & Spring Semesters All Years.

PS 241 - Psychology of Personality (3)

Explores scientific perspectives on personality including trait, biological, Freudian, neo-Freudian, social learning, and humanistic.

Prerequisite: PS 110 Introduction to Psychology.

PS 247 - Bimini Cetacean Ecology (3)

This course is a hands-on learning course examining the behavioral and social ecology of wild dolphins, ecotourism and human impacts on the marine environment.

Distribution: Psychology. Offered: Obsolete - Summer Semester Contact Department.

PS 249 - Obesity - A comparative Analysis (3.00 Credit(s))

Within a general context of health and wellness, this course will take a holistic approach to exploring the global epidemic of obesity using the United States and Luxembourg.

Distribution: Psychology. Offered: Obsolete - Summer Semester All Years.

PS 251 - Life Span Development Psychology

This course examines the human growth and development across the lifespan. Emphasis is on major theories and perspectives as they relate to

the physical, cognitive, and psychosocial aspects of development from conception to death.

PS 252 - Child Development Psychology (3)

Traces development from conception through childhood, including basic concepts and theories as applied to psychological processes of perception, cognition, social interactions, affective, and moral development.

Prerequisite: PS 110 Introduction to Psychology.

PS 273 - Adolescent Development (3)

An in-depth study of developmental and behavioral issues in adolescence. Emphasis is on adjustment to adolescent roles, the search for self-identity, and healthy and unhealthy personality development.

Prerequisite: PS 110 Introduction to Psychology.

PS 274 - Adult Development (3)

Considers various psychological issues and developmental tasks of adulthood and middle age, psychological characteristics of the elderly, and the psychology of death and dying.

Prerequisite: PS 110 Introduction to Psychology.

PS 275 - Psychology of Women (3)

Surveys and examines current research and theories about women and gender. Topics include gender-role stereotypes, attitudes toward women, gender-role socialization, women and work, sexuality, marriage, love, and the biology of women.

Prerequisite: PS 110 Introduction to Psychology.

PS 280 - Prevention & Health Promotion (3)

This course examines the principles, core elements, and models/theories regarding prevention science and health promotion. Course content will examine selected topics in prevention with a particular emphasis on evidence-based programs and practices. Research methods utilized in the evaluation of prevention and health promotion programs will also be covered.

PS 285 - Psychological Counseling I: Principles of Counseling (3)

This course examines the principles, research, and theories of all the major schools of counseling. Emphasis is on the scientific efficacy of these approaches and ethical issues.

Prerequisite: PS 110 Introduction to Psychology.

PS 286 - Psychological Counseling II: Practice of counseling (3)

This course reviews the fundamental concepts and skills of counseling and emphasizes practice in applying those techniques in counseling situations. Students will be required to practice these skills in class with others and submit several videotaped projects.

Prerequisite: PS 285 Psychological Counseling I.

PS 287 - Introduction to Counseling

This course presents the fundamentals of counseling and psychotherapy. Approaches covered include cognitive- behavioral, client- centered, and rational- emotive therapy.

PS 289 - Positive Psychology in Literature & Film (3)

In this course students will study the field of positive psychology from the interdisciplinary perspectives of psychology, literature, and film. Positive psychology is the scientific study of the strengths and virtues that enable people to live meaningful and fulfilling lives-to survive and thrive as individuals in human communities. In this course students will read and learn about this scientific branch of psychology-its theories, models, and applications-and then read literature and view films that represent the themes, characteristics, and elements that constitute positive psychology. Finally students will examine and practice the ways that positive psychology can apply to their lives.

PS 295 - Health Psychology (3)

Focuses on the relationship between attitudes and personality factors and health. Emphasis is on stress management and behavioral change methods for health improvement and maintenance.

Prerequisite: PS 110 Introduction to Psychology.

PS 299 - Special Topics in Psychology (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

PS 355 - Industrial & Organizational Psychology (3)

Explores theories and methods involved in application of the psychological principles in work settings. Emphasis is on understanding theory, research, learning methods, and techniques used in practice.

Prerequisite: PS 110 Introduction to Psychology.

PS 302 - Research Design & Analysis II (4)

Students continue to learn how to do primary quantitative research in psychology and to apply basic statistical principles to data collected using the scientific method. Emphasis is on hypothesis testing in experimental and quasi-experimental factorial designs and writing of full-length APA paper.

A prerequisite to PS 380 and PS 382 (must earn a grade of C+ or higher in PS302)

Prerequisite: C+ or better in PS 201 Research Design & Analysis I.

PS 305 - Cognition in Humans & Animals (3)

This seminar course will explore the differences and similarities in the cognitive development of animals and humans, particularly infants and children. Often in comparative courses the focus is "what makes humans

unique?" but this course will also explore the many ways our development and behavior parallel those found in the animal world through discussion of theory and research related to this field. The course will focus on various cognitive abilities including those in perception language and theory of mind and play.

Prerequisite: PS 110 Introduction to Psychology.

PS 313 - Abnormal Psychology in Film (3)

Study of the diagnosis, causes, and treatment of the major psychological disorders through examination of their portrayal in popular films.

Prerequisite: PS 110 Introduction to Psychology.

PS 320 - Psychology of Language (3)

A survey of the psychological processes behind language, communication, and literacy. Students will learn concepts important to psycholinguistics, how we understand each other, and what happens when people miscommunicate. This course will provide students with an overview of language from how infants learn speech to how adults process complicated works of literature.

Prerequisite: PS 110 Introduction to Psychology.

PS 325 - Psychology of Disability (3.00 Credit(s))

Explores the social, behavioral, vocational, and health-related issues faced by individuals with physical, psychological, and cognitive disabilities. Emphasis is on assessment, diagnosis and treatment of disabilities and how these problems affect activities of daily living and future goals.

Distribution: Psychology. Prerequisite: Take PS-110. Offered: Spring Semester All Years.

PS 328 - Children, Media & Morality (3.00 Credit(s))

The prevalence of media throughout children's lives highlights the need to understand the influence of this ubiquitous content on their development, and especially their moral development. This course will explore the impact of media on child development, the development of morality and the intersection of these two topics.

Distribution: Psychology. Prerequisite: Take PS-110. Offered: As Needed Contact Department.

PS 331 - Psychometrics/School Psychology (3)

Examines principles, theories, applications, and ethics of psychological tests used for clinical, educational, industrial, or legal purposes. Specific tests and issues unique to their use and abuse are presented.

Prerequisite: PS 110 Introduction to Psychology.

PS 335 - Human & Animal Learning (3)

Explores theories of learning from their historical origin to the present and focuses on how these theories can be applied to the real world. Students will gain insight into the factors that influence their own behavior, as well as the behavior of others.

Prerequisite: PS 110 Introduction to Psychology or BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab.

PS 340 - Conservation Psychology

This course explores the growing field of conservation psychology and the connections it has to many allied fields, such as Conservation Biology. Conservation Psychology is psychology with a conservation agenda, that is, psychology for a sustainable future.

PS 344 - Cognitive Psychology

Examines the field of human cognition. Topics include how we store and retrieve memories, process language, allocate attention, recognize objects, solve problems and make decisions.

PS 346 - Human Decision Making (3)

Using research from psychology and economics, students will gain a framework for understanding and analyzing decisions. This framework will be compared to human behavior in both real-work context and games.

PS 350/BI 205 - Essentials of Neuroscience (3)

Introduces students to the field of neuroscience, which combines biology and psychology into a single area of study. Topics range from the cellular and molecular physiology of neurons to issues of human language, cognition, mental illness, and drug use.

Prerequisite: PS 110 Introduction to Psychology or BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab.

PS 351 - Brain & Behavior (3)

Examines the molecular and molar views of the nervous and endocrine systems and emphasizes the roles of these systems in behavior.

Prerequisite: PS 110 Introduction to Psychology or BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab.

PS 352 - Hormones & Behavior (3)

This course examines the hormonal mediation of various behaviors including play, aggression, parenting, and cognitive functioning.

Prerequisite: PS 110 Introduction to Psychology or BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab.

PS 353 - Psychopharmacology (3)

This course presents current data and theories in psychopharmacology and drug-abuse research. Basic principles of pharmacology, neurotransmission, and drug use are covered.

Prerequisite: PS 110 Introduction to Psychology or BI 111/BI 113 Concepts in Biology I: Molecules to Cells with Lab.

PS 355 - Industrial and Organizational Psychology

PS 358 - Human Neuroscience

The course examines the relationship between the human mind, brain, cognition, and mental disorders.

PS 380 - Advanced Psychological Research (4)

Focuses on advancing scientific writing skills, research techniques, peer collaboration, and presentation skills associated with the field of psychology. Students will participate in research projects or proposals related to a faculty member's specific research area.

Prerequisite: C+ or better in PS 302.

PS 382 - Systems & Theories of Psychology (3)

An historical survey of theoretical formulations and systems in psychology. Evaluates structuralism, functionalism, behaviorism, Gestalt psychology, psychoanalysis, and the humanistic and cognitive viewpoints.

Prerequisite: C+ or better in PS 302 and junior/senior psychology minor/major standing.

PS 389 - Advanced Special Topics (3)

Designates new or occasional upper-level courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, reflect a faculty member's particular interest, or offer an alternative to existing courses.

Prerequisite: PS 110 Introduction to Psychology.

PS 390-395 - Psychological Research (1-6)

Research in the basic areas of scientific psychology performed under the supervision of participating faculty. By special arrangement with faculty member.

PS 396 - Capstone: Psychology Internship (3)

A culminating course which integrates theory and practice with supervised placement in agencies, schools, and/or institutions. Seminars focus on career assessment, personal growth, and work skills.

Prerequisite: Junior/senior psychology major standing.

PS 397 - Capstone: Psychological Research (3)

Students conduct research under the supervision of a faculty member. Course may involve a review and discussion of relevant literature in a seminar format and/or data collection in a laboratory setting. Intended for students who are planning to go to graduate school in psychology.

Prerequisite: Permission of department.

PY - Physics

PY 101 - Earth & Space Science (2)

Designated for A&S multidisciplinary major. The composition of the universe and our place in it, the causes of earthquakes, volcanoes, the

formation of the land we live on, weather phenomena, and Earth's major global issues as to cause and effect will be studied.

Corequisite: PY 102 Earth & Space Science Lab.

PY 102 - Earth & Space Science Lab (1)

Designated for A&S multidisciplinary major. The lab associated with this course involves in-house, hands-on investigations of basic concepts as well as a field component with analyses and interpretations in the "real" world. It will also discuss how a field component can be modified and added to an elementary Earth Science program.

Corequisite: PY 101 Earth & Space Science.

PY 103 - Physics of Sound (3)

Non-calculus based, specifically designed for students in the Speech-Language Pathology program, covers the basic concepts in sound waves, such as wavelength, frequency, speed of wave, resonance, beats, harmonics, intensity, loudness, Doppler effects, etc. Prior to learning these topics, several more fundamental principles will be taught such as vectors, velocity, displacement, acceleration, force, work, energy, power, pressure, Bernoulli's equation, elasticity, and simple harmonic motion.

PY 104 - Elements of Physics (3)

Covers the basic laws of mechanics, properties of matter, thermodynamics, waves, electricity, optics, and atomic/modern physics/radioactivity. Course is designed for some pre-health professional programs (physician assistant, etc.) and science majors (biology, exercise science, athletic training, etc.) for whom a one-semester algebra-based introductory physics course is adequate.

Prerequisite: MA 106 College Algebra or higher.

PY 104L - Elements of Physics Lab (1)

Fundamental training in physical measurements in basic laws of mechanics, waves, electricity, optics, and atomic/modern physics/radioactivity.

Prerequisite: MA 106 College Algebra or higher. Corequisite: PY 104 Elements of Physics.

PY 110 - Physics of Hollywood (3)

In PY 110, students will use the laws of physics and Fermi-type estimation techniques, to critically assess the credibility of the physics in Hollywood movies.

PY 111 - General Physics I (3)

Non-calculus-based course covering the basic principles of mechanics (units, vectors, 1D and 2D motion, concepts of force, torque, static equilibrium, energy, work, momentum, rotational motion, and gravitation), fluid mechanics, temperature, and thermal expansion.

A prerequisite to PY 113

Prerequisite: MA 140 Precalculus or higher. Corequisite: PY 113 General Physics Laboratory I.

PY 112 - General Physics II (3)

Non-calculus-based course covering basic principles of thermodynamics, wave motion, sound, electricity, magnetism, light, and geometrical optics.

A prerequisite to PY 114

Prerequisite: PY 111 General Physics I. Corequisite: PY 114 General Physics Laboratory II.

PY 113 - General Physics Laboratory I (1)

Fundamental training in physical measurements in mechanics (base physical quantities, vectors, acceleration of gravity, concepts of force, torque, static equilibrium, energy, momentum, rotational motion) and Archimedes' principle.

Prerequisite: PY 111 General Physics I. Corequisite: PY 111 General Physics I.

PY 114 - General Physics Laboratory II (1)

Fundamental training in physical measurements in specific heat, wave motion, sound, electricity, light, and optical devices.

Prerequisite: PY 113 General Physics Laboratory I. Corequisite: PY 112 General Physics II.

PY 151 - Principles of Physics I (3)

Calculus-based course covering basic principles of mechanics (units, vectors, 1D and 2D motion, concepts of force, torque, static equilibrium, energy, work, momentum, rotational motion, and gravitation) and fluid mechanics.

A prerequisite to PY 152, PY 153

Prerequisite: MA 152 Calculus II or equivalent. Corequisite: PY 153 Principles of Physics Laboratory II.

PY 152 - Principles of Physics II (3)

Calculus-based course covering basic principles of thermodynamics, wave motion, sound, electricity, magnetism, light, and geometrical optics.

A prerequisite to CH 331 and PY 154

Prerequisite: PY 151 Principles of Physics I. Corequisite: PY 154 Principles of Physics Laboratory II.

PY 153 - Principles of Physics Laboratory I (1)

Fundamental training in physical measurements in mechanics (base physical quantities, vectors, acceleration of gravity, concepts of force, torque, static equilibrium, energy, momentum, rotational motion) and Archimedes' principle.

Prerequisite: PY 151 Principles of Physics I. Corequisite: PY 151 Principles of Physics I.

PY 154 - Principles of Physics Laboratory II (1)

Fundamental training in physical measurements in specific heat, wave motion, sound, electricity, light, and optical devices.

Prerequisite: PY 151 Principles of Physics I; PY 153 Principles of Physics Laboratory I. Corequisite: PY 152 Principles of Physics II.

PY 155 - Science & the Bible (3)

This course investigates selected events noted in the Bible: Creation, Eve, Moses' Ten Plagues, Noah's Flood, Sodom and Gomorrah, and the Star of Bethlehem.

PY 190 - Basic Astronomy (3)

Explores the universe briefly. Emphasis is on the solar system and recent space explorations. Observations of the sky and/or visit(s) to planetariums.

PY 199 - Special Topics in Physics (3-4)

Special topics are new or occasional courses that may or may not become part of the department's permanent offerings. Pre-requisites are established by the department as appropriate. Course title is shown on student's transcript.

PY 211 - Classical & Quantum Waves (3)

Topics include, small amplitude oscillations, the wave equation, Fourier series, Fourier transforms, basic principles of quantum mechanics, the wave-function and the 1D Schrödinger equation. Includes applications to atomic physics.

Prerequisite: PY 152 Principles of Physics II or instructor permission.

RAD - Radiography**RAD 101 - Radiography I**

Designed to provide the student with an orientation to radiography the course includes: a review of program policies and procedures, professional organizations and standards, medical terminology, an intro to image acquisition and evaluation, basic equipment operation and quality control, basic radiation protection, and patient care and education. Additional skills taught are phlebotomy and electrocardiogram techniques and vital signs. Imaging procedures are included with an emphasis on lecture-laboratory study of [RAD 101](#) required Competencies.

In conjunction with classroom and lab activities, students are scheduled for supervised clinical education. The student is assigned to clinical experience two days a week mastering [RAD 101](#) required competencies. Along with assisting the radiographer, emphasis is placed on interpersonal communication skills with peers, staff, and patients.

8 credit hours

Pre-Requisites: BI 206/207/208/209, FYS 125, MA 106

Co-Requisites: PS 110

RAD 112 - Radiography II

Radiography II is designed to provide the student with a continuation of image acquisition and evaluation, equipment operation to include image receptors, continuation of geriatrics, bariatric, patient care and education, with an emphasis on medical emergencies and pediatric patients. Imaging procedures with an emphasis on lecture-lab study of [RAD 112](#) required competencies are included.

In conjunction with classroom and lab activities, students are scheduled for supervised clinical education. The student is assigned to clinical experience two days a week mastering [RAD 112](#) required competencies, with an emphasis on trauma, geriatric and pediatric techniques. An introduction to the operating room is included.

8 credit hours

Pre-Requisites: RAD 101, PS 110

Co-Requisites: CS 100

RAD 200 - Clinical Bridge Course

This course will provide the student with a transition into the second year of radiography. Emphasis will be on review of clinical skills and competencies completed in RAD 101 and RAD 112.

2 credit hours

Pre-Requisites: RAD 112, CS 100

Co-Requisites: PY 104/104L

RAD 221 - Radiography III

This course will provide the student with a transition into the second year of radiography. Emphasis will Radiography III is designed to provide the student with advanced concepts in radiation protection, including radiation biology, x-ray interaction with matter, radiosensitivity; and minimizing radiation exposure. A study of radiographic pathology is included. Imaging procedures are included with emphasis on lecture-lab study of [RAD 221](#) required competencies including cranium and an overview of special views.

In conjunction with classroom and lab activities, students are scheduled to supervised clinical education. The student is assigned to clinical

experience three days a week mastering the required [RAD 221](#) competencies.

9 credit hours

Pre-Requisites: RAD 200, PY 104/104L

Co-Requisites: CTL 125, CIT 201

RAD 232 - Radiography IV

This course is designed to provide the student with x-ray circuits, fluoroscopic, digital imaging and computed radiography, PACS, and a comprehensive review in preparation for the successful completion of the ARRT Certification Examination. Imaging procedures are included with emphasis on lecture-lab study of [RAD 232](#) competencies. An introduction to computed tomography, magnetic resonance, diagnostic medical sonography, nuclear medicine, women's imaging and radiation therapy is included along with a comprehensive review of past competencies. In conjunction with classroom activities, students are scheduled for supervised clinical education.

The student is assigned to clinical experience three days a week mastering [RAD 232](#) required competencies as well as reviewing all past level competencies. Emphasis is placed on student selected areas of concentration.

9 credit hours

Pre-Requisites: RAD 221, CTL 125, CIT 201

Co-Requisites: PH 251, Humanities Elective

RAD 301 - Cross Sectional Anatomy

Cross Sectional Anatomy, offered online, is intended for Radiographers, Nuclear Medicine Technologists, Radiation Therapists and Diagnostic Medical Sonographers who are board eligible to learn areas mandated by the American Society of Radiologic Technologist (ASRT) Core Curriculum in Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). Course content is an integral part of the registry examinations for CT and MRI professionals. This course covers sectional anatomy of the entire body. The course demonstrates quality, diagnostic images in both CT Scan and MRI modalities. Students are exposed to section overviews, objectives and self-assessing activities.

45 hours theory

RAD 406, 407, 408 - CT Scanning (including Practicum)

The Computed Tomography (CT) certificate will prepare students to operate CT scanners to produce reconstructed 3-D images of anatomy of interest. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates

to possess the knowledge, skill, and affect to meet the demands of an entry-level position in computed tomography.

Coursework includes anatomy and physiology, radiation protection, pathology, protocols, and patient care. The contrast media that will be taught is specific to computed tomography. Theory and clinical experiences will prepare -certificate completers for the ARRT® Computed Tomography certification and registration post-primary examination and for employment as an entry level CT technologist.

RAD 406	CT Scanning I	3 credits
RAD 407	CT Scanning II	3 credits
RAD 408	CT Scanning III	2 credits

Pre-Requisite: RAD 301

411, 412, 413 - MRI Imaging (including Practicum)

The Magnetic Resonance (MR) certificate will prepare students to operate MR equipment to produce reconstructed 3-D images of anatomy of interest. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates to possess the knowledge, skills, and affect to meet the demands of an entry-level position in magnetic resonance.

Coursework includes anatomy and physiology, MR safety guidelines, common pathology, protocols, and patient care. Contrast media will be taught that is specific to MR. Theory and clinical experiences will prepare certificate completers for the ARRT® Magnetic Resonance certification and registration post-primary examination and for employment as an entry level MR technologist.

RAD 411	MR Scanning I	3 credits
RAD 412	MR Scanning II	3 credits
RAD 413	MR Scanning III	4 credits

Pre-Requisite: RAD 301

416 - DMS Abdomen (including Practicum)

This course is designed to instruct the student in the normal anatomy and physiology of the organs in the upper abdomen and retro-peritoneal structures. The sonographic appearance of normal anatomy and common pathology will be addressed. Methods and techniques of scanning will be discussed and reinforced during clinical rotations. Clinical competencies will be performed at the clinical sites.

Pre-Requisite: Admission to the program

417, 418 - DMS OB-GYN (including Practicum)

This course is designed to instruct the student in the normal anatomy and physiology of the structures of the female pelvis. The sonographic appearance of normal anatomy and common pathology will be

addressed. Methods and techniques of scanning will be discussed and reinforced during clinical rotations. Clinical competencies will be performed at the clinical sites

RAD 417 Obstetrics/Gynecology (OB/GYN) Sonography I	3 credits
RAD 418 Obstetrics/Gynecology (OB/GYN) Sonography II	2 credits

420 - Mammography (including Practicum)

The Mammography course will prepare students to operate digital mammography units to produce images of patients' breast tissue. This course contains online theory and clinical experiences at our affiliated clinical education settings. This course prepares graduates to possess the knowledge, skill, and affect to meet the demands of an entry-level position as a mammographer.

Coursework includes anatomy and physiology, MQSA guidelines, radiation protection, common pathology, protocols, and patient care. Theory and clinical experiences will prepare certificate completers for the ARRT® Magnetic Resonance certification and registration post-primary examination and for employment as an entry level mammographer.

45 hours theory
250 clinical hours

421, 422 - DMS Vascular & Small Parts

This course is designed to instruct the student in the normal anatomy and physiology of the breast, scrotum and testicles, and the thyroid and parathyroid glands. Vascular structures will include the carotid arteries, upper and lower extremity and arterial and venous sonography, and peripheral visceral vascular anatomy. The sonographic appearance of normal anatomy and common pathology will be addressed. Methods and techniques of scanning will be discussed and reinforced during clinical rotations. Tests and quizzes will be given. Clinical competencies will be performed at the clinical sites.

RAD 421 Vascular & Small Parts I	1 credit
RAD 422 Vascular & Small Parts II	3 credits

424, 425, 426 - DMS Physics & Instrumentation (including Practicum)

This course is designed to provide the student with an understanding of the theories and principles of ultrasound physics. The student will gain an understanding of the history of ultrasound and its usefulness as a diagnostic imaging modality. The student will be able to demonstrate an understanding of ultrasound equipment and accessories, how to use them safely and with maximum efficiency. Methods and techniques of optimizing the ultrasound equipment will be discussed. Clinical competencies will be performed at the clinical sites.

RAD 424 Physics & Instrumentation I - 3 credits

RAD 425 Physics & Instrumentation II (clinical only) - 0 credits (P/F)

RAD 426 Physics & Instrumentation III - 3 credits

SLP - Pre-Speech Language Pathology

SLP 200 - Introduction to Communication Disorders (3)

The course provides a general introduction to normal and disordered speech, language, and hearing in children and adults. The course considers normal development of communication behavior, the nature of communication disorders, and reviews the various conditions associated with communication disorders. Ethical standards for the practice of speech-language pathology, contemporary professional issues, and information regarding certification, specialty recognition, licensure, and professional credentials in speech-language pathology will be presented. 3 credits; lecture format.

A prerequisite to SLP 350

Offered: Fall, Spring.

SLP 210 - Phonetics (3)

In this course, students learn to identify, classify, and transcribe the speech sounds (phonemes) of English, using the International Phonetic Alphabet for broad transcription. Variations among regional and cultural US dialects and their implications, as well as notation and practice of narrow transcription for typical and disordered speech will be introduced. 3 credits; lab/lecture format.

A prerequisite to SLP 320

Offered: Fall.

SLP 300 - Anatomy & Physiology of Speech & Swallowing (3)

The purpose of this course is to familiarize students with the anatomy (structures) and physiology (processes) associated with speech, language, hearing, chewing, and swallowing. 3 credits; lab/lecture format.

A prerequisite to SLP 320 and SLP 340

Prerequisite: 3 credits of biology. Offered: Fall.

SLP 310 - Introduction to Audiology & Hearing Science (3)

This course presents an introduction to the practice of audiology, the anatomy, physiology, and common pathologies of the auditory system, the impact of hearing loss, types and characteristics of hearing loss, conventional procedures used to assess hearing, interpretation of audiological test findings, and criteria for initiating audiological referrals. Issues of ethics, professional practice, licensing, and credentials for audiology practice will be reviewed. 3 credits; includes both lecture and laboratory experience.

Prerequisite: 3 credits of biology. Offered: Fall.

SLP 320 - Speech Science (3)

The purpose of this course is to provide a basic understanding of the production and perception of speech. Topics include the physics of sound, the acoustic properties of voice, resonance of the vocal tract, and the acoustic and articulatory properties of vowels and consonants, among others. 3 credits; lab/lecture format.

Prerequisite: SLP 210 Phonetics and SLP 300 Anatomy & Physiology of Speech & Swallowing. Offered: Spring.

SLP 330 - Development of Language (3)

This course provides an understanding of normal child language development from infancy through the adolescent years, as well as the conditions and symptoms associated with disordered language development. The class will also provide some exposure to research on literacy and academic language acquisition, and language and literacy development for bilingual children. 3 credits; lecture/discussion or service learning format.

Prerequisite: PS 252 Child Development Psychology. Offered: Spring.

SLP 340 - Neurological Bases of Communication & Swallowing (3)

This course describes the development and anatomy and physiology of the neurological system that underlies communication and swallowing and is a prerequisite for further study in medical speech, language, and swallowing disorders. Includes both lecture and laboratory experience.

Prerequisite: SLP 300 Anatomy & Physiology of Speech & Swallowing. Offered: Spring.

SLP 350 - Clinical Methods & Observation (3)

This course will orient students to clinical practicum, including the scope of assessment and intervention across the lifespan. It will include an overview of goal writing, lesson planning, writing SOAP notes and other clinical documentation, electronic medical recordkeeping, report writing, progress monitoring, and ethical conduct. Legislative, regulatory, and reimbursement issues that affect the practice of communication disorders in educational and medical settings will be presented. As part of this course, students will complete a series of intensive observations in various educational and medical settings. Lecture/discussion/observation format.

Prerequisite: SLP 200 Introduction to Communication Disorders. Offered: Spring.

SM - Sport Management

SM 206 - Sport Enterprise Management (3)

Examines principles and foundations of sport management and how the functions of planning, organizing, leading, and directing apply to the sport enterprise. Focus is on the application of core management principles, including ethics. The course provides a basis for understanding the development and governance of the sport industry and for addressing contemporary problems and issues. Students develop a model of management designed to achieve the goals of the sport enterprise.

A prerequisite to SM 235, SM 245, SM 265, SM 281, SM 283, SM 299, and SM 390

Prerequisite: BU 201.

SM 235 - Sport Law (3)

Explores the application of legal principles to the sport industry and provides basic knowledge of a wide range of legal statutes that relate to various dimensions of sport business. Major focus is on a review of judicial opinions in the areas of tort liability (risk management), agency and contract law, labor and employment law, and antitrust issues that frequently have been addressed in cases involving sport enterprises.

Prerequisite: SM 206 Sport Enterprise Management.

SM 243 - Sport Finance (3)

Examines the application of financial methods and procedures for the sport enterprise. Focus is on understanding the development and management of enterprise budgets and financial strategies, including debt service, ticket and concession sales, corporate sponsorship, and licensed sport merchandise. Examines financial challenges related to current and future sources of revenue for the sport enterprise.

Prerequisite: FN 215 Financial Management.

SM 245 - Sport Media (3)

Examines the critical business principles and fundamentals related to the mass media in sport and the delivery mechanisms that drive growth in the industry. A special focus of this course are the media rights deals in U.S. and international sports leagues, especially for broadcast. The course also covers the following: media ethics; sports heroes in the media; race, ethnicity, and diversity; digital media strategies and deals; and a focus on the finances behind some of the world's most popular sporting events.

Prerequisite: SM 206 Sport Enterprise Management.

SM 265 - Sport Marketing (3)

Analyzes how marketing, promotion, and public relations principles apply to the sport industry. Explores issues in marketing of the sport enterprise, sport-related events and venues, and products and services. Focus is on the marketing of sport as a product and on the marketing of non-sport products and services using sport as a promotional tool. Addresses unique challenges and limitations as well as new trends in sport marketing.

A prerequisite to SM 305 and SM 382

Prerequisite: SM 206 Sport Enterprise Management and MK 201 Principles of Marketing.

SM 281 - Sport Venue & Event Management (3)

Examines principles and fundamentals of managing and financing sport and entertainment venues. Focuses on developing knowledge and skills necessary to develop, design, and manage sports, recreation, and health/fitness facilities. Emphasizes design analysis, operations, and event management. Includes site visits.

Prerequisite: SM 206 Sport Enterprise Management.

SM 283 - Sporting Goods Industry (3)

Examines the history, foundations, organization, management, and future of the sporting goods industry. Designed specifically for individuals interested in a career in the sporting goods industry and focuses on understanding the development of core dimensions of the industry, including market structure, sporting goods manufacturers, marketing strategies, and channel distribution and sporting goods e-commerce. The course emphasizes problem-solving and developing critical thinking skills within the context of the sporting goods industry.

Prerequisite: SM 206 Sport Enterprise Management.

SM 299 - Special Topics in Sport Management (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

Prerequisite: SM 206 Sport Enterprise Management.

SM 305 - Sport Sponsorship (3)

Examines the unique dimensions of corporate sponsorship. Emphasis is placed on proven sponsorship sales techniques, the dynamics of selling sport sponsorships, and on an analysis of the global sponsorship market and the necessary steps needed to generate sponsorships revenues for sports events. Insights into creating a sponsorship inventory, research base, and sales plan are provided.

Prerequisite: SM 265 Sport Marketing.

SM 382 - Sport New Media (3)

Examines the relationship between new media and the sport industry, including broadband, wireless, mobile technologies, sport websites, streaming video, audio, iTV, podcasting, e-commerce, and online marketing. Focus is on the relationship of new media to current trends in sport marketing, sponsorship, broadcasting, UGC, CRM, etc. Emphasizes developing critical new media-related skills, including webpage design.

Prerequisite: SM 265 Sport Marketing and IS 272 Dynamics of Information Technology; Recommended: SM 245 Sport Media.

SM 390 - Sport Management Internship (3-9)

Students are directly involved in various dimensions of managing the sport enterprise. Emphasis is on the practical application of management and marketing principles and skills to a specific sport business. On-site sport management professionals supervise students.

Prerequisite: SM 206 Sport Enterprise Management and permission of the Sport Management internship coordinator.

SO - Sociology

SO 110 - Sociological Imagination (3)

Students are taught how to investigate social issues as sociologists do-by tracing the troubles of men and women back to broader social forces and problems. The relevance of sociology is demonstrated through examples of applied sociology and through the students' use of social theory and methods to address social problems.

A prerequisite to AN 250; SO 372 and SO 382

SO 123 - Human Rights & Social Justice (3)

This course will introduce students to current and historical issues and controversies of human rights and social justice through case studies, lectures, and group work.

Distribution: Sociology. Offered: Spring Semester Odd Years.

SO 201 - Poverty & Inequality in the United States (3)

The aim of this course is for students to develop an understanding of the nature, causes, and consequences of poverty and socioeconomic inequality in contemporary United States. These problems are examined from theoretical, descriptive, historical, and comparative perspectives. The intersection of the problems of poverty and inequality with gender, race, ethnicity, and political power are also examined. Students will have an opportunity to examine critically current public policies designed to deal with the problems of poverty and inequality in American society.

SO 202 - Sociology of the Body (3)

This course will explore sociological scholarship on a wide range of questions relating to the body, including representation, embodiment, social construction of the body, human reproduction, biotechnology, and virtual bodies. In doing this we will utilize both macro- and microsociological theories to examine the politicization of bodies as sites of discipline, regulation, normalization, empowerment, and agency.

SO 203 - Sociology of Sport (3)

Examines the sociological significance of sport on an individual, interactional, and institutional level.

SO 215 - Social Psychology: Macro Processes (3)

Explores social and cultural forces that influence individual social interaction. Covers components of individual social behavior and interpersonal social behavior.

SO 216 - Changing Families (3)

Examines family in terms of structure, roles, and functions. Emphasis is on understanding: family life cycles; the shift in perspective about the family; the conflict between family values and individual values; the interplay between individual families and the larger society; and the flexibility and diversity of the family as an institution.

SO 220 - Ethnography of Ireland (3)

This course examines the patterns of economic, social, political, and cultural change in modern Ireland through the lens of selected ethnographic studies of Irish communities. In addition, this course will examine the changing theoretical interests and research methodologies of anthropologists working in Ireland. This work will be supplemented

with a selection of ethnographic films focusing on Irish communities and contemporary patterns of sociocultural change in Ireland.

SO 233 - Aging in America (3)

The aging of the American population is the subject of this course. Emphasis is placed on the imminent retirement of the "baby boomers" and its impact on the structures of society and future generations.

SO 234 - Sociology of Health & Healthcare (3)

Focuses on the social nature of illness in contemporary society, the changing healthcare system, and the ethical issues raised by advances in medical technology.

SO 237 - Deviance & Social Control (3)

Explores the creation of deviance, the process of becoming deviant, and society's reactions to such issues as civil disorder, crime, mental illness, addiction, and sexual deviance.

SO 238 - Youth & Contemporary Society (3)

The course analyzes youth as a stage in life made both promising and problematic by contemporary social structure and culture. Attention is given to the origins and forms of youthful conformity and achievement as well as misconduct and crime, with an emphasis on how those issues differ by gender, social class, race/ethnicity, and variations in the organizations and social institutions that constitute the context of daily life for youth.

SO 239 - Diversity & Oppression in Contemporary Society (3)

Emphasis is on human diversity. This course is designed to give students an understanding of the conditions that lead to minority emergence and the consequence of minority status; it fosters acceptance of diversity, cultural pluralism, and social change.

SO 240 - Studying Changing Human Populations (3)

This course 1.) identifies what kinds of changes have been occurring in the size, composition, and geographic distribution of human populations at the local, national, and global levels; 2.) analyzes the impacts those changes have been exerting on social patterns; and 3.) develops basic skills for studying those changes and impacts. Focuses on birth and fertility rates, death rates, migration rates, and changes in specific aspects of populations: size, age, sex ratio, socioeconomic status, and cultural heritage/identity.

SO 242 - Statistics for Social Research (3)

This course shows how to use statistics for specific purposes in social research and how to interpret the results of statistical analysis.

SO 244 - Racial & Ethnic Relations (3)

In this course students will be introduced to the various sociological perspectives and theoretical frameworks used to understand racial and ethnic relations in the United States. Racial and ethnic identities remain an important aspect of how people view themselves and others. In this course, we will discuss the dynamics of individual racial and ethnic groups including African Americans, Hispanic Americans, Native Americans, Asian Americans, and white Americans. We will also examine

what the concepts of race and ethnicity mean and how they affect various aspects of American society.

SO 254 - Society & Economic Change (3)

Major socioeconomic developments in twenty-first-century capitalism (e.g., consumer culture, global labor market, media empires) are studied. The persistence of inequality and poverty, fragmentation of family and community, unhealthy constructions of self-image, and other social problems are explained in terms of these developments.

A prerequisite to SW 266

SO 257 - Science, Technology, & Society (3)

With the increasing diffusion of biotechnology, cybertechnology, communication/media technology, etc., in the world, it is prudent to study the influence of science and technology on culture and society and to consider the social impact of the next wave. While identifying serious problems and risks, the course also explores how science and technology are positive forces.

SO 258 - Society & the Environment (3)

This course 1.) examines how human activities contribute to environmental problems such as climate change, pollution, disappearance of natural habitat, decreasing biodiversity, diminishing natural resources, deforestation, erosion, and desertification; 2.) analyzes the impact of environmental degradation on human populations and human societies; and 3.) identifies those steps taken and yet to be taken to end degradation and restore environmental health. A project in which students take action in some group organization or community to make its impacts on the environment more positive is required.

SO 259 - Social Movements (3)

Social movements are a powerful form of collective action with the capacity to alter societies for the better (e.g., Civil Rights Movement) or worse (e.g., fascism). Utilizing a rich vein of social theory and social scientific studies, this course offers an in-depth analysis of these fascinating social phenomena.

SO 263 - Sociology of Gender (3)

This course provides an introduction to the sociological study of gender by exploring gender as something that is individual, interactional, and institutional. This course elaborates specifically on how gender is a central component of inequality and oppression and the intersections of gender, race, class, and sexuality.

SO 296 - Sociology of Education (3)

This course focuses on education as a social institution and an agent of socialization. The formal organization of education, education and the family, education and social stratification, and education as a vehicle for examining and solving social problems are explored.

SO 299 - Special Topics in Sociology (3)

Detailed and comprehensive analysis of a sociological issue or problem of current interest. Specific topic is announced in the course schedule of any given semester.

SO 372 - Sociological Theory (3)

This sociological theory course gives students an understanding of the works of the major classical theorists whose ideas played a central role in the development of sociological theory and introduces students to the dominant contemporary perspectives in social thought. Emphasis is on developing the students' knowledge of the range of thinking that exists concerning social issues and what the strengths and weaknesses of each position are, therefore enabling them to work within any point of view. A seminar format is used, requiring students to do assigned readings before a topic is discussed in class because it is through class discussions that ideas are analyzed, dissected, and critically assessed.

A prerequisite to SO 384

Prerequisite: AN 110 Human Cultural Diversity, SO 110 Sociological Imagination, and two Sociology electives.

SO 382 - Methods of Social Research (3)

Students learn how to design, conduct, and report the results of social research. Attention is given to experimental and evaluation research, field research, unstructured exploratory interviewing, content analysis, analysis of published statistical data, survey research, conceptualization and operationalization of variables, analysis of data, the writing of research reports, and the logic of cause and effect in research. The course also includes learning how to use the Statistical Package for the Social Sciences (SPSS) software to analyze quantitative data.

A prerequisite to SO 384

Prerequisite: AN 110 Human Cultural Diversity, SO 110 Sociological Imagination, and two Sociology electives.

SO 384 - Applied Social Theory & Methods (3)

This course allows students to develop their thesis project through the application of material covered by the Sociological Theory and Research Methods courses.

A prerequisite to SO 398

Prerequisite: SO 372 Sociological Theory and SO 382 Methods of Social Research.

SO 392 - Sociology Internship (3-6)

The internship in sociology offers an opportunity for qualified Sociology majors to gain practical experience in an area to which sociology applies. Internships are arranged in advance of the semester they are to be taken.

Prerequisite: Permission of Sociology faculty.

SO 398 - Senior Seminar in Sociology (3)

The capstone course in the Sociology major. Students write and defend a sociological thesis under the guidance of a faculty mentor.

Prerequisite: SO 384 Applied Social Theory & Methods .

SO 399 - Independent Study in Sociology (3)

Designed for students interested in advanced study or in pursuing areas within sociology for which no course is offered. By special arrangement.

Prerequisite: Permission of Sociology faculty.

SP - Spanish

SP 101/102 - Beginning Spanish I and II (3 CR each)

For students with no previous Spanish education. Basic grammar patterns oral practice, reading, and writing are studied. Placement by department.

SP 103/104 - Advanced Beginning Spanish I and II (3 CR each)

For students with some knowledge of Spanish (one or two years of high school and not native speakers). Courses review basic grammar patterns. Extensive practice in listening, speaking, reading, and writing in Spanish. Placement by department.

SP 109 - Spanish for Health Professionals (3)

This course will introduce students to the Spanish language with an emphasis on developing speaking, listening, reading, and writing skills at a basic level with vocabulary and content related to the medical field and other health professions. The course will provide the necessary language skills to deal with general examination, symptoms, and prognosis and will also explore diverse Spanish-speaking cultures through a variety of materials and their role in health idioms and phraseology.

SP 110 - Beginners Medical Spanish (2.00 Credit(s))

This course will introduce students to the Spanish language with an emphasis on developing speaking, listening, reading, and writing skills at a basic level with vocabulary and content related to the medical field.

Distribution: Spanish.

SP 151/152 - Intermediate Spanish I and II (3 CR each)

Review of and expanded study of Spanish grammar to consolidate what has been acquired previously. Extensive practice in listening, speaking, reading, and writing Spanish enables students to function in a Spanish-speaking environment.

Prerequisite: SP 102 Beginning Spanish II or SP 104 Advanced Beginning Spanish II or placement.

SP 201/202 - Advanced Spanish Composition & Grammar I and II (3 CR each)

Focus on most challenging aspects of grammar such as imperfect/preterite or the use of the subjunctive and writing controlled compositions based on selections previously read and discussed.

A prerequisite to SP 215/SP 216, SP 241, SP 251/SP 252, SP 253-259, SP 261/SP 262, SP 263-269, SP 280, SP 281, SP 283, SP 299, SP 315-320, SP 341, SP 353-359, SP 363-369, SP 382, and SP 385

Prerequisite: SP 152 Intermediate Spanish II or placement.

SP 203 - Spanish for the Professions (3)

Designed for students in Nursing, Physical Therapy, and Social Work. Emphasis is on special topics related to those professions, focusing on communicating in Spanish. Service learning required.

Prerequisite: SP 152 Intermediate Spanish II or placement.

SP 207/208 - Spanish Language & Culture in Spain I and II (3 CR each)

Four-week intensive summer study abroad in Granada, Spain. Students are placed according to their level of language. The courses include extensive practice in listening, speaking, reading, and writing of Spanish and serve as an introduction to the culture, customs, and history of Spain. Field trips to Sevilla and Córdoba.

SP 211/212 - Conversation I and II (3 CR each)

Emphasis on intensive oral practice, short speeches, and group discussions.

Prerequisite: SP 152 Intermediate Spanish II or placement.

SP 215/216 - Spanish Readings & Discussion I and II (3 CR each)

Designed to improve reading ability and self-expression through readings chosen from Spanish authors, newspapers, and magazines.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 241 - Spanish Phonetics & Phonology (3)

A study of the sounds of the language. Recommended for all Spanish majors and those who expect to teach Spanish.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 251/252 - Spanish Literature I and II (3 CR each)

Spanish literature from the Middle Ages to the present. Oral and written reports are required.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 253-259 - Special Topics in the Literature of Spain (3 CR each)

Course description varies each time the course is offered.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 261/262 - Masterpieces of Latin-American Literature I and II (3 CR each)

Latin-American literature from the colonial period to the present.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 263-269 - Special Topics: Latin-American Literature (3 CR each)

Course description varies each time the course is offered.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 280 - Hispanic Civilization & Culture: Spain (3)

History and culture of the Spanish people from their origins to the present day with emphasis on their arts, thought, and lifestyle.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 281 - Hispanic Civilization & Culture: Latin America (3)

Emphasis on understanding the Spanish-American people through the different periods of their history and their reactions to political, religious, and economic problems.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 299 - Special Topics in Spanish (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 315-320 - Contemporary Issues (3 CR each)

Discussions based on current materials, including books, newspapers, magazines, and movies from the Spanish world.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 341 - Spanish Linguistics (3)

Teaches the relationship between linguistics and the learning of a new language.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 353-359 - Advanced Topics in Spanish Literature (3)

The study of literature from Spain. Course description varies each time the course is offered.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 363-369 - Advanced Topics in Latin-American Literature (3 CR each)

The study of literature from Latin America. Description varies each time the course is offered.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 382 - The Cultures of Medieval Spain (3)

A study of the three cultures and religious traditions comprising Medieval Spain, from the fall of the Roman Empire to 1492: Christian, Moorish (Arab), and Jewish. Varied readings as well as written assignments, oral presentations, and class discussions are required.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 385 - The Society of Golden Age Spain (3)

A comprehensive study of the society and culture of Golden Age Spain (1500-1700). Varied readings from different historical and cultural perspectives are required, along with written assignments, class discussion, and oral presentations.

Prerequisite: SP 201/202 Advanced Spanish Composition & Grammar I and II or placement.

SP 397 - Spanish Major Portfolio (1 CR)

This course is a one-credit senior capstone experience which assesses the aggregate quality of a student's writing and speaking abilities as seen throughout the entire major. Students must save their work from several years' worth of major classes and, within the parameters of the portfolio's requirements, upload their work to an online portfolio site. To be offered and taken during student's senior/final year.

SP 399 - Independent Study (3)

Work on a special topic to be arranged with instructor who directs this work. Permission of the department chair is granted to qualified students in Spanish on basis of written prospectus. By special arrangement.

SVC at SHU - Certificate Courses

BRS 101 – Sanitation and Safety

This course covers the principles of sanitation as well as the practices necessary for maintaining safety in the brewery environment. Best practices to keep beer free from contamination are stressed. Topics include chemical use and storage, safe use of common brewery equipment, and general workplace safety. Course completion involves OSHA 10 certification and a Brewers Association safety certification.

BRS 105 – Field Work

This course reinforces and extends the knowledge and concepts being learned in BRS 110 into workplace settings such as breweries, grain and hops farms, tap rooms, malting and milling operations, and science labs. Students have opportunities to visit these local businesses and receive some hands-on learning while working with and listening to the owners and operators of these segments of the industry.

BRS 110 - Introduction to Brewing Ingredients, Sensory Analysis and Beer Service

This courses introduces the principles of beer service beer styles, sensory analysis, and the primary ingredients used in the brewing process. The evaluation of craft brewed beverages will be conducted using sight, smell, taste, and the factors affecting quality will be examined. The

course prepares student to take the Cicerone Certification Program Certified Beer Server exam and the ServSafe Alcohol certification exam.

BRS 111 – Craft Beverage Brewing

This course introduces students to producing craft brewed beverages on commercial brewing equipment. Students apply the principles of sanitation and safety, fermentation, mathematics, technology, scheduling, laboratory testing, evaluation/flavor analysis, packaging, storage, and basic laboratory quality control and quality assurance, while producing multiple batches of beer. Recording of brewing calculations, controls, and taxation requirements are also performed for the operation and governmental regulations.

BRS 201 – Operations and Management

In this course, students integrate knowledge and skills learned in previous courses with proper beer and foodservice protocol and etiquette in the planning, organization, operation, promotion, and management of brewing facilities. Additional course topics include point of sale (POS) system operations and report generation, selection of practical social media marketing concepts, menu sales techniques, menu knowledge, and proper suggestive selling to increase traffic and sales in a taproom/brewpub. Laws that govern the sale of alcoholic beverages and proper procedures for managing alcoholic beverages are covered, including storage, service, purchasing, and cash handling. Students will demonstrate the appropriate methods for pairing craft brewed beverages with food and integrate proper beer and food service protocol and etiquette.

BRS 211 – Advanced Craft Beverage Brewing

This course extends the knowledge and skills in BRS 111 while incorporating more of the managerial and supervisory aspects covering advanced production of craft brewed beverages on commercial brewing equipment. Students will continue to apply and also actually manage and supervise the principles of sanitation and safety, fermentation, mathematics, technology, scheduling, laboratory testing, evaluation/flavor analysis, packaging, storage, and laboratory quality control and quality assurance, while producing multiple batches of beer. Management and supervision of the recording of brewing calculations, controls, and taxation requirements are also performed, both for the operation and governmental regulations.

BRS 212 – Craft Brewing Internship

This course is designed for students to participate in a brewery related internship experience of paid or unpaid work and learning activities involving employers and departmental instructional staff. Students work 6 hours per week for 14 weeks (or equivalent) under supervision at department approved employment locations. Performance is monitored by the instructional staff and the students' work location supervisor. Students must have permission of the Department and attend an internship orientation meeting before registering for this course. Course work is completed online through Blackboard.

NON CREDIT

CST 100 – Central Sterile Processing Technician

This program represents the basic study of Central Sterile Processing and preparation for national certification as a Central Sterile Processing

Technician. This certificate program includes human anatomy/physiology, microbiology and infection control, decontamination and sterilization processes, handling, care and identification of surgical instrumentation. This course is designed to provide application of sterile processing functions through in-class and on-site didactic, lecture and demonstration.

CNA 100 – Certified Nursing Assistant

Certified Nursing Assistant program (total of 120 hours of theory and clinical) will prepare students for the state licensure exam which measures student nursing skills, knowledge and judgment. The CNA course content includes infection control, legal and ethical responsibilities, communications, body mechanics, moving and positioning residents, personal care skills, nutrition, measuring vital signs, and restorative care. Successful completion and clinical experience qualifies a student to take the state exam for certification as a Nursing Assistant in the State of Connecticut.

PCT 100 – Patient Care Technician

Patient Care Technicians are allied healthcare workers who, upon completion of this certificate program (total of 384 hours of theory and clinical), are CPR certified, technically competent in basic phlebotomy, electrocardiogram, data entry skills and eligible for state certification as a nurse aide. These skills enable the Patient Care Technician to work with a variety of patients in physicians' offices, clinics, extended care facilities, surgical centers, hospitals, and community agencies.

SW - Social Work

SW 101 - Introduction to Social Work (3)

Explores the profession of social work as a career choice. Focuses on generalist social work practice as a societal response to social problems with an orientation to professional knowledge, skills, values, and ethics.

A prerequisite to SW 265, SW 267, SW 275, and SW 276

SW 140 - Perspectives on Family Violence (3)

The effects and characteristics of family violence from the legal, medical, and social perspectives. Incidence and preconditions of child abuse, spousal abuse, and elder abuse are studied.

SW 222 - Human Diversity & Social Justice in Nicaragua (3)

Provides students with a framework for understanding how diversity characterizes and shapes the human experience and is critical to the formation of identity. This course includes a study abroad component during spring break to Nicaragua. Students may take this in place of SW 224.

SW 224 - Human Diversity & Social Justice (3)

Provides students with a framework for understanding how diversity characterizes and shapes the human experience and is critical to the formation of identity.

SW 265 - Social Welfare Policy I (3)

Examines how social policy is formulated and implemented with a focus on the inequalities and inequities in social welfare policy that express institutional discrimination. Emphasizes the development of macro practice skills.

Prerequisite SW 101

A prerequisite to SW 266 and SW 278

Prerequisite: SW 101 Introduction to Social Work.

SW 266 - Social Welfare Policy II (3)

An introduction to the social service delivery system and resources, the values and ethics inherent in policy, and the role of the social work profession. Includes a global perspective on comparative social welfare systems.

Prerequisite SW 265 and PO 121

Prerequisite: SW 265 Social Welfare Policy I, PO 121 Introduction to American Government, and SO 254 Society & Economic Change.

SW 267 - Human Behavior & the Social Environment I (3)

A study of diverse family, group, community, and organizational systems and their impact on human development and behavior. Theoretical knowledge and assessment skills will be emphasized

Prerequisites: BI 101 or BI 103, PS 110, and SW 101

Prerequisites to SW 276 and SW 278

Prerequisite: BI 101 The Nature of Life or BI 103 The Human Body, PS 110 Introduction to Psychology, and SW 101 Introduction to Social Work.

SW 268 - Human Behavior & the Social Environment II (3)

Theories of human development with emphasis on stages of life cycle, human diversity, and the biological, psychological, socioeconomic, spiritual, and cultural influences on development.

Prerequisite: SW 267

Prerequisite: SW 267 Human Behavior & the Social Environment I.

SW 275 - Social Work Practice I (3)

Emphasizes the generalist model of social work practice, the use of systems theory, the strengths perspective and professional values, and skills to facilitate the planned change and problem-solving process.

Prerequisite Required: SW 101

A prerequisite to SW 278 and SW 375

Requires: Junior Standing and acceptance into Social Work Program

Prerequisite: Junior standing and SW 101 Introduction to Social Work.

SW 276 - Pre-Placement Field Seminar (2)

Provides students with an orientation to the field placement to prepare them for generalist social work and to assess student readiness for field.

SW 278 - Junior Field Practicum (4)

Internship for two days each week in a human service agency where students are professionally supervised in social work practice with clients and the community.

A prerequisite to SW 378/SW 380

Prerequisite: SW 265 Social Welfare as a Social Institution, SW 267 Human Behavior & the Social Environment I, SW 275 Social Work Practice I, and departmental evaluation for admission to Intermediate Major status. Corequisite: SW 279 Junior Field Practicum Seminar.

SW 279 - Junior Field Practicum Seminar (2)

Taken concurrently with SW 278, this course facilitates, reinforces, and supports field-based learning. Emphasizes engagement, assessment, intervention planning, interviewing skills, and professional values and ethics.

A prerequisite to SW 378/SW 380

Corequisite: SW 278 Junior Field Practicum.

SW 299 - Special Topics in Social Work (3)

Designates new or occasional courses that may or may not become part of the program's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the program as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and current prerequisites.

Prerequisite: Prerequisites established by the program as appropriate for the specific course. .

SW 375 - Social Work Practice II (3)

Examines intervention skills with families, groups, communities, and organizations using the planned change process. Introduces spirituality in social work practice.

Prerequisite: SW 275 Social Work Practice I.

SW 378/SW 380 - Senior Field Practicum I and II (4 CR each)

Professionally supervised senior internship for two days each week. Integration of theory with practice and the development of appropriate skills and knowledge, along with professional identification, values, and attitudes.

Prerequisite: SW 278 Junior Field Practicum, SW 279 Junior Field Practicum Seminar, and evaluation for admission to Degree Candidacy status. Corequisite: SW 379/SW 381 Senior Field Practicum Seminar I and II.

SW 379/381 - Senior Field Practicum Seminar I and II (2 CR each)

Emphasis is on professional development, the use of research methods to evaluate one's own practice, and application of theory from the entire curriculum to professional practice in a field placement. Students are professionally supervised in social work practice with clients and the community

Capstone project is completed in the co-requisite seminar.

Corequisite: SW 378/SW 380 Senior Field Practicum I and II.

SW 390 - Research Methods for Social Work (4)

Development of research skills for evaluation and enhancement of social work practice. Emphasizes research designs, sampling, practice evaluation, program evaluation, measurement instruments, and basic statistics.

A prerequisite to SW 391

Prerequisite: Junior standing and MA 131 Statistics for Decision-Making.

SW 391 - Research Practicum and Seminar (2)

Conduct supervised undergraduate research with faculty allowing integration and application of research methods content covered in SW 390.

Prerequisite: B or better in SW 390 Research Methods for Social Work and departmental approval.

THR - Theatre Arts

THR 101 - Introduction to Theatre (3)

The purpose of Introduction to Theatre is to increase students' understanding, appreciation, and critical perceptions of the theatrical art form. Readings and lectures will focus on the elements of theatrical practice, artists, and innovators of theatre throughout history and on the theatre's development as an art form and a social phenomenon. Participation in class forum discussions and sharing of critiques and short reports will offer avenues to explore students' individual theatrical interests, and attendance at theatrical events will offer first-hand experience in theatre arts.

THR 102 - Blackbox Stage Production (1)

Participation in TheatreFest, improve, and other approved student-driven theatrical activities. All events are overseen by the Director of Theatre.

THR 103 - Mainstage Production (1)

Participation in the spring mainstage musical in one of the areas of theatrical discipline. All events are overseen by the Director of Theatre.

THR 110 - Acting I (3)

Focuses on basic acting skills including the development of imaginary circumstances, improvisation, and creative development. Students are introduced to skills in script analysis, character identity, emotional reality, and objective-driven structure through monologues and scene study.

THR 111 - Acting II (3)

Focuses on acting skills including the advance development of imaginary circumstances, improvisation, and creative development. Students will

develop skills in script analysis, character identity, emotional reality, and objective-driven structure through monologues and scene study.

THR 112 - History of Theatre I (3)

History of theater from antiquity through early nineteenth century. Students will also learn the foundational concepts and theories of theatre.

THR 120 - Voice for Musical Theatre I (3)

Voice for Musical Theatre I introduces students to skills on speech, diction, pitch, analysis, and interpretation through various styles of period and contemporary musical theatre works. Solo and ensemble application of singing techniques, preparation, and presentation.

THR 121 - Voice for Musical Theatre II (3)

Voice for Musical Theatre II develops students' skills on speech, diction, pitch, analysis, and interpretation through various styles of period and contemporary musical theatre works. Solo and ensemble application of singing techniques, preparation, and presentation.

THR 130 - Stagecraft (3)

An introduction to the basic materials and techniques used in scene, painting, costume, and lighting production. Intended to equip the student with the skills required to work on productions. This course will also hold discussions of basic terminology, shop organization, job descriptions, maintenance procedures, and safety. Other jobs such as run crew, wardrobe, front of house, board operator, or other duties will be discussed.

THR 140 - Directing I (3)

This course will cover an overview of both the responsibilities of a director and the various relationships a director has with designers, playwrights, stage manager, tech staff, actors, and dramaturges. This course will also explore various directional strategies and identify the different styles of theatre, stage types, floor plans, script interpretation, directional research and resources, concepts, conceptualization of a play, and interpretation. Finally, this course will introduce elements of directing and strategies for working with actors, staging short scenes, and using a minimum of technical elements in a final scene.

THR 141 - Directing II (3)

This course will provide students with practical understanding of advanced stage directing strategies including conceptualization, interpretation, casting, and cast and crew interaction. Students will also explore the similarities and differences between directing for theatre, film, and television.

THR 150 - Introduction to Costumes (3)

This course is designed to introduce students to the fundamentals of costuming including a socio-historical understanding of the role of costumes in theatre.

THR 201 - Scene Study (3)

Students explore in-depth a series of assigned scenes and plays. Students will be required to complete close readings, discussion, and analysis of

specific scenes and plays. Students will also apply their analysis to the performance of at least three different scenes in different styles.

THR 202 - Script Analysis (3)

Students will develop their ability to analyze texts by reading a number of plays in the context of acting and directing. Students will learn different approaches to script analysis through readings, discussions, projects, and presentations through a close examination of representative texts from the dramatic canon.

THR 210 - Acting for Musical Theater I (3)

This course focuses on basic acting skills as they apply to musical theater. In particular, students will focus on working with elevated text and the transitions from scene into song.

THR 211 - Acting for Musical Theater II (3)

This course focuses on advanced acting skills as they apply to musical theater. In particular students will focus on working with elevated text and the transitions from scene into song as well as musical interludes, dance breaks, and reprises.

THR 212 - History of Theatre II (3)

History of theatre from the nineteenth century to the present. Students will also learn advanced concepts and influential theories of theatre.

THR 230 - Children's Theater I (3)

This course examines the fundamentals of children's theater including dramatic structure, audience needs, directing, and acting techniques that are employed in the production of theater for children. Students will explore, analyze, and produce children's plays.

THR 231 - Children's Theater II (3)

This course introduces students to advanced approaches to children's theater production. The course further builds upon foundational concepts such as dramatic structure, audience needs, directing, and acting techniques as well as focuses on material adaptation, auditions, rehearsal, technical support, and promotion. In addition, students will explore, analyze, produce, and perform children's plays and create accompanying educational curricula.

THR 240 - Playwriting I (3)

This course is an introduction to the craft of playwriting and the role of the playwright. Students will analyze works of significant playwrights in order to experience the process of the playwright. Students will participate in various writing exercises in order to develop their own one-act plays.

THR 241 - Playwriting II (3)

In this course students will hone their playwriting abilities through the development of advanced techniques. Students will engage in peer critique in order to develop their original works. Students will also learn the role of the playwright in the production process through the staging of an original one-act play.

THR 250 - Costume Design (3)

This course introduces students to the fundamentals of costume design including basic design elements, script, and character analysis and historical period and genre research.

THR 280 - Acting Styles (3)

Students learn different genres and styles of acting from different historical periods. Students will study classical and contemporary acting techniques focusing on vocal and physical clarity, textual analysis, and scenic interpretation, diction, movement, imagery, and tone.

THR 299 - Special Topics in Theatre (3)

Designates new or occasional courses that may or may not become part of the program's permanent offerings. Courses capitalize on timely topics, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites are established by the program as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and prerequisites.

THR 301 - Advanced Scene Study (3)

Students continue to read, analyze, and explore a series of assigned theatre scenes. The focus will be on developing the skills needed to perform classic scenes from traditional to avant-garde works.

THR 392 - Theatre Internship (1-6)

An opportunity for qualified students in the theatre arts to gain practical experience in theatre production and management.

Prerequisite: Permission of instructor and program director.

THR 399 - Capstone Production Lab (3)

Provides students with a practical intensive experience in one or more aspects of production during the fall or spring semester of their senior year. Each student is assigned a specific production role depending on his or her concentration and career goals.

TRS - Theology and Religious Studies

TRS 201 - Introduction to the Hebrew Bible (3)

Literary and historical study of the Hebrew Bible, also known as the Old Testament in many Christian traditions. Relationship of literary form and interpretation in passages from the Pentateuch, historical and prophetic books, and wisdom literature. Comparison and contrast of theological meanings of these writings for Jews and Christians.

TRS 202 - Introduction to the New Testament (3)

Literary, historical, and theological study of the New Testament. Included topics: the origin, formation and development of the Gospels and letters, various types of interpretation, and the distinctive views of the New Testament writers about Jesus' life, teachings, death, and resurrection.

TRS 203 - Introduction to the Gospels (3)

This course is an introduction and examination of the synoptic Gospels and the Gospel of John. The course will explore contemporary methods used by scholars and the Church to interpret these texts.

TRS 204 - The Letters of Paul (3)

Examines the social and religious world of St. Paul, his biography, his writings in the New Testament, and how these influenced the developing Christian church.

TRS 205 - Gospel of Luke & Acts (3)

Study of Luke's Gospel and its companion book, the Acts of the Apostles, utilizing historical, literary, and theological tools.

TRS 220 - Introduction to Catholic Theology (3)

Introduces fundamentals of Catholic life and thought. Key doctrines examined are scripture, tradition, God/Trinity, Jesus Christ, sacraments, and the Church in the modern world. Additional topics might include ethics, spirituality, and the saints. Placed in historical context, Catholic theological reasoning about these doctrines are compared to theology in other branches of Christianity.

TRS 221 - Understanding Theology (3)

An introduction to the nature and role of theology. Investigates both academic or "public" theology and confessional or "church-centered" theology.

TRS 222 - Faith & Reason (3)

This course investigates the relationship between faith and reason. In what ways are faith and reason compatible and what is the history of the interaction between theology and academic disciplines such as those in the natural and social sciences?

TRS 223 - Sacraments (3)

Explores the history of the sacraments, the theology behind them, and their role in contemporary Catholic life.

TRS 230 - History of Christianity I (3)

Traces the history of the Christian faith from the New Testament period to the Middle Ages. Major issues, controversies, and persons from these centuries are studied.

TRS 231 - History of Christianity II (3)

Traces the history of the Christian faith from the Middle Ages to the present time. Major issues, controversies, and persons from these centuries are studied.

TRS 232 - Christian Spirituality (3)

Presents spirituality as a topic worthy of study, plumbing its meaning through selections from the writings of great spiritual masters through the centuries—for example, Augustine, John of the Cross, Theresa of Avila, Ignatius Loyola, Teilhard de Chardin, and Thomas Merton.

TRS 233 - Women in Christianity (3)

A theological, textual, and gender-based examination of women in the history of Christianity, incorporating critical analysis of texts written about and by Christian women. Topics include the image of women and woman's spirituality in the Bible, writings of the Church Fathers, mystics, sectarian movements, and the feminist reconstruction of tradition.

TRS 234 - Contemporary Roman Catholic Thought (3)

Various thinkers and movements that have shaped contemporary Roman Catholic life and thought, including Karl Rahner, the Second Vatican Council, and liberation theology.

TRS 235 - Constructing the Concept of God (3)

Imaginative construction of a concept of God appropriate for modern life.

TRS 236 - Comparative Theology (3)

Comparative theology brings two traditions together in comparison and contrast to learn both deeply without collapsing the two into one. The tradition studied may vary with the semester, but typically Christianity will be compared to another world religion.

TRS 240 - Foundations of Catholic Ethics (3)

Explores the historical sources and methods of reasoning in the Roman Catholic moral tradition. Critically examines current moral issues in Catholicism.

TRS 241 - History of Christian Ethics (3)

The ethical reflections of some of the most influential Christian thinkers from the Church Fathers to the present (e.g., Augustine, Thomas Aquinas, and Martin Luther) applied to various important topics of ethical debate in Christian history (e.g., the notion of just war).

TRS 242 - The Catholic Social Justice Tradition (3)

The social-ethical teachings of the Catholic tradition, especially since Pope Leo XIII's letter On the Condition of Labor in 1891. Explores Catholic social teaching that emerges from Church documents, traces its application to many issues of social and political conflict, and considers how this teaching is challenged by the perspectives of women, minorities, and people in developing countries.

TRS 243 - Ethics in World Religions (3)

Examination of core ethical teachings and methods in several world religions. These resources guide ethical analysis of conflicted issues in contemporary society, such as economic inequality, racism, violence, sexual ethics, and bioethics.

TRS 246 - Death and Grief in World Religions (3)

A comparative and anthropological study of the rituals and processes of grieving, dying, and death in world religions and indigenous religious traditions. Course explores religious beliefs about and practices developed around human dying, death, and any subsequent conditions of existence.

TRS 260 - Eastern Religions (3)

Explores history, beliefs, and practices of Hinduism, Buddhism, and other religions of India, China, and Japan and the emergence of the contemporary New Age movement.

TRS 261 - Islam (3)

A theological and phenomenological exploration of beliefs, practices, and symbology of Islam, incorporating extensive readings from the Qur'an, the Hadith and Shari'a, and Sufism. This course analyzes contemporary topics such as religion and gender and religion and politics.

TRS 262 - Judaism (3)

Key components of the complex religion of Judaism including Biblical foundations, historical development, theological considerations, rituals and symbols, calendar and holidays, Jewish mysticism, prayer, denominations, and lifecycle events. Explores the role of God in the life of Jews past and present and compares the meaning of Judaism then and now.

TRS 263 - Symbol, Myth, & Ritual (3)

Notions of symbol, myth, and ritual as well as an introduction to the use of symbols, myths, and rituals in a wide variety of religious traditions.

TRS 264 - Ancient Religions & Cults (3)

Explores the beliefs, practices, and teachings of ancient world religions including those of ancient Egypt and Mesopotamia, the mystery cults of the ancient Greco-Roman civilizations, and the religious traditions of pre-Christian northern Europe (Scandinavia) and ancient Iran. Studies sacred writings of these religions with emphasis on topics such as deities and divine powers, rituals of birth and death, gender studies, and the relationships between ancient faith traditions and the emergence of monotheism.

TRS 265 - Introduction to World Religions (3)

A descriptive and comparative study of the beliefs, practices, and sacred texts of several world religions.

TRS 266 - Understanding Religion (3)

A critical and constructive study of the nature of religion, its functions in human life, and its various forms and manifestations. The perspectives of influential theorists of religion will be studied.

TRS 270 - Religion in America (3)

Examines the historical factors responsible for distinctive trends in American religion and identifies common threads that run through the religious history of America from the Puritans to today.

TRS 271 - Celtic Religious Traditions (3)

The mythic history of Ireland and "beginning" of the Irish and the traditions by which the Irish have come to identify themselves and give meaning to their world. Study of the religious function of social institutions; gods goddesses and ruling powers; holy places; feasting and sacrifice; spirits and ancestors; and the other world. Also considered is the role of women in these traditions and the continuation of "myth" in modern Ireland.

TRS 272 - Religion in Contemporary Ireland (3)

Examines complex factors involved in shaping religion in contemporary Ireland. The changing face of Irish religious sensibility is situated within such factors as Irish history, the major role of Catholicism in the culture, and the multicultural dimensions of twenty-first-century Ireland.

TRS 273 - Religion & Sexuality (3)

Examines the relationship between religion and sexuality in various world religions. Topics include asceticism versus eroticism, defining normality and deviance, sex as a means to challenge or maintain the social order, and religious responses to the changing sexual morality in contemporary Western society.

TRS 276 - Women in World Religions (3)

An analysis of women's role in Christianity, Judaism, Hinduism and Islam, both historical and contemporary, using theories and methods of gender study.

TRS 277 - Christian-Jewish Relations (3)

Examines the historical and theological relationship between Judaism and Christianity over the centuries. Attention is paid to the recent positive strides in interreligious understanding since Second Vatican Council.

TRS 278 - Women in Celtic Christianity

Examines the complex encounter between women and the diverse traditions of Celtic spirituality. Historical scope of the course runs from pre-Christian traditions to contemporary times with emphasis on primary texts.

TRS 279 - Women in Islam (3)

Examines the theological, anthropological, and cultural encounter between women and Islam from an historical as well as contemporary perspective. Dismissing polemics and grounding study on writings by and about Muslim women across the full scope of the Islamic world, the course will explore particularly how Muslim women have realized their faith and engaged in patterns of religious practice.

TRS 280 - Religion and Theater

An exploration of the relationship between theater and religion from anthropological, historical, religious, and literary perspectives. The course will include a rotating selection of ancient and modern, western and non-western, plays each semester it is offered.

TRS 284 - Cults, Sects, & New Religious Movements (3)

Explores beliefs and practices of new religions in America, including Mormonism, Unification Church, Christian Science, Scientology, Theosophy, New Age, Neopaganism, and UFO cults. Presents both sociological and theological approaches to understanding new religions.

TRS 286 - Flight and Its Human Meaning (3)

The course examines the history of the metaphor of flight beginning with the Ancient world and proceeding up to the novel *Song of Solomon*

by Toni Morrison. Emphasis is placed on flight as a symbol of the quest for freedom and self-transcendence.

TRS 287 - Jesus, the Buddha, and Mohammed (3)

The course examines how each of these three founders of global religious traditions dealt with fundamental human issues such as suffering and finitude, the moral life, and the quest for what Aristotle called "flourishing."

TRS 288 - Mortality and Eternity (3)

This course engages students with texts that raise questions of ultimate concern. How do we make sense of an innate desire to know that frustratingly is constrained by the finitude of human nature?

TRS 290 - Foundational Topics in Religion (3)

Designates new or occasional courses that present the opportunity to study a major era, theme, or set of thinkers in theology or religious studies, at the foundational level. Consult the current course schedule for available topics.

TRS 299 - Special Topics in Theology & Religious Studies (3)

Designates new or occasional courses that may or may not become part of the department's permanent offerings. Courses capitalize on a timely topic, a faculty member's particular interest, an experimental alternative to existing courses, etc. Prerequisites established by the department as appropriate for the specific course. Course title is shown on the student's transcript. Consult the current course schedule for available topics and prerequisites.

TRS 301 - Death & Resurrection of Jesus (3)

Traces the development of the traditions of the passion, death, and resurrection of Jesus as they are found in the gospels of Matthew, Mark, Luke, and John.

Prerequisite: One 3-credit TRS course.

TRS 302 - The Historical Jesus (3)

Investigates what can be known of the historical Jesus-the form of his teaching, his message, his actions-through a proper methodological examination of the sources. Jesus and his followers are understood in the context of the history, cultural, and religion of his day.

Prerequisite: One 3-credit TRS course.

TRS 303 - The Gospel of John (3)

A critical interpretation of the Gospel of John.

Prerequisite: One 3-credit TRS course.

TRS 304 - New Testament Ethics (3)

An examination of the ethical teachings found in the New Testament and their legacy.

Prerequisite: One 3-credit TRS course.

TRS 305 - Scripture in the Life of the Church (3)

An overview of the entire biblical canon, an introduction to historical-critical study of the Bible, and consideration of the Catholic Church's contemporary methods for study and interpretation of Scripture.

Prerequisite: One 3-credit TRS course.

TRS 320 - Jesus the Christ (3)

Examines the theological interpretation of Jesus as the Christ in the history of the Christian tradition.

Prerequisite: One 3-credit TRS course.

TRS 321 - The Church: Catholic Perspectives (3)

An investigation of Catholic thinking and teaching about the nature of the Church.

Prerequisite: One 3-credit TRS course.

TRS 322 - The Christian Trinity (3)

Examines the Christian theological conception of God as a trinity of persons. How has this theological understanding of God developed over time? How does theology explain the Christian worship of one God who is also three?

Prerequisite: One 3-credit TRS course.

TRS 323 - Theology & the Human Person (3)

Investigates theological conception of the human person in light of Christian revelation and asks: In what way is a person like God? What do we mean by human nature, sin, grace, and free will? Can the traditional Christian and the modern scientific notions of humanity be reconciled?

Prerequisite: One 3-credit TRS course.

TRS 324 - Death, the Future, & Eternity (3)

Investigates the varied aspects of Christian eschatology-that is, the unfolding of the future in relation to the cosmos and to the individual. When, how, and why does the world end and where does the individual fit into all this? Topics covered include theological discussions of time, the future, the human soul, death, the intermediate stage, and the journey of the Christian community and the human family into the future.

Prerequisite: One 3-credit TRS course.

TRS 325 - Faith & Science (3)

Explores history and interaction between Catholic theology and science in the medieval, modern, and contemporary era. The interaction is studied in the context of such topics as cosmology, evolution, ecology, and technology.

Prerequisite: One 3-credit TRS course.

TRS 328 - Contemporary Protestant Thought (3)

Some of the most important Protestant theologians of the nineteenth and twentieth centuries, including Kierkegaard, Schleiermacher, Barth, and Tillich.

Prerequisite: One 3-credit TRS course.

TRS 330 - Mysticism (3)

This course introduces the student to the dimension of spirituality known as mysticism, through readings in and critical analysis of mystical texts of the world's religions, including Tao Te Ching, the Hindu Upanishads, Zohar and other Kabbalistic texts, the poets of Sufism, and Christian mystics from the history of Christianity.

Prerequisite: One 3-credit TRS course.

TRS 331 - Monks, Hermits, & Warriors (3)

Introduces the dimension of Christian faith often termed "the religious life." Studies the historical development of monasticism in the West and its various manifestations from late antiquity to the modern era.

Prerequisite: One 3-credit TRS course.

TRS 332 - Medieval Spiritual Traditions (3)

A critical examination of central doctrines of Christianity, Judaism, and Islam as they developed during the Middle Ages. This course analyzes particular modalities of theological expression such as mysticism, sacred art/architecture, and women's visionary writings.

Prerequisite: One 3-credit TRS course.

TRS 334 - Catherine & Teresa (3)

Catherine of Siena (14th cen.) and Teresa of Avila (16th cen.) are esteemed for enriching the life of the Catholic Church with their theological writings and their distinctive spiritual gifts. Explores the significant contributions of both women in the context of their respective historical and religious milieus, as well as their Dominican and Carmelite spiritualities.

Prerequisite: One 3-credit TRS course.

TRS 335 - Spiritual Teachers & Thinkers (3)

Explores the representative spiritual writings of a specific religious teacher from the history of the world's religions. Examples of such spiritual teachers include Hildegard of Bingen, Meister Eckhart, George Fox, Teresa of Avila, Ibn al'Arabi, and Martin Buber. Consult instructor for relevant topic.

Prerequisite: One 3-credit TRS course.

TRS 336 - Theology & Native Irish Spirituality (3)

Celtic Christianity is a tradition rich in its own history and particularities within the broader culture of the Western Church, and so it is certainly worthy of a focused exploration. The course will include a study of the general history and theological peculiarities of the Celtic Church within Celtic cultures and geographies, with a particular focus on Irish spirituality and Irish Christianity.

Prerequisite: One 3-credit TRS course.

TRS 337 - Narratives of Solitude (3)

To better understand the human condition, students read texts about the nature of solitude and narratives composed by men and women experiencing periods of voluntary or imposed isolation.

Prerequisite: One 3-credit TRS course.

TRS 338 - Theology and Ethics of Death and Dying (3)

Explores cultural, religious, philosophical, scientific, medical, and literary perceptions of death, dying, and grief. Develops theological and ethical frameworks to guide care and communication in end-of-life situations.

Prerequisite: One 3-credit 200 level TRS course.

TRS 340 - Bioethics: Religious Approaches (3)

Using methods and principles of biomedical ethics, explores several ethical issues in medical practice and healthcare policy. Frameworks employed include religious/ethical perspectives in Christianity and some other religious traditions, as well as philosophical and social theories. Topics may include euthanasia, reproductive technologies, confidentiality, human subjects, and allocation of healthcare resources.

Prerequisite: One 3-credit TRS course.

TRS 341 - Religion, War, & Peace (3)

An examination of ethical attitudes toward war and peace embraced by Christianity, Islam, and other religions. Just war theory and pacifism are applied to contemporary problems of violence.

Prerequisite: One 3-credit TRS course.

TRS 342 - Human Rights (3)

Investigates philosophical and religious theories of human rights, the modern history of rights, and ways to implement a human rights agenda.

Prerequisite: One 3-credit TRS course.

TRS 343 - Philanthropy as Moral Action (3)

Presents the ethics, theology, and political philosophy undergirding philanthropy. Provides an opportunity to develop skills of social entrepreneurship by studying or volunteering in local nonprofits.

Prerequisite: One 3-credit TRS course.

TRS 344 - Virtue Ethics (3)

The study of moral character. Course investigates the philosophy and theology of virtue throughout history; the value of the social and natural sciences for understanding virtue; and the social dimensions of virtue.

Prerequisite: One 3-credit TRS course.

TRS 345 - Religion & the Environment (3)

Examines how religion has shaped humanity's relationship with nature and explores various religious and ethical responses to contemporary ecological problems. The course also attends to Christianity, which is criticized by some environmentalists but has also given rise to its own environmentalist movement.

Prerequisite: One 3-credit TRS course.

TRS 346 - Contemplation & Action (3)

This course focuses on contemplative thinkers and different practices that they have used to find union with God and their surroundings. Through site visits, conversations, and experiences with Ugandan community partners, students engage a historical and thematic understanding of the contemplative tradition.

TRS 362 - Women in American Religion (3)

A critical analysis of women and religion within the context of American history and culture. This course examines religious writings/narratives by Native American women and American women in Christianity, Judaism, and Islam. The impact of race, class, history, and/or ethnicity upon religious experience is also explored in the writings of feminist, Womanist (African-American), and Mujerista (Latina) theologians.

Prerequisite: One 3-credit TRS course.

TRS 363 - Pilgrimage & Sacred Journeys (3)

Introduces the religious ritual activity of pilgrimage, a spiritually inspired journey in time and over space. The concept is studied in several religions and from several methodological angles that occur in many religious traditions.

Prerequisite: One 3-credit TRS course.

TRS 370 - Interreligious Dialogue (3)

Presents how various religions see the task of dialogue and cooperation between their members and people of other faiths and of no faith. Considers effective practices for interreligious dialogue.

Prerequisite: One 3-credit TRS course.

TRS 372 - Contemporary Religious Thinkers (3)

Representative writings of a specific religious thinker. Focus is on the work of either an important theologian or a contemporary scholar of religion. Consult the course instructor for the topic.

Prerequisite: One 3-credit TRS course.

TRS 373 - Religion, Health, & Healing (3)

This course explores "alternative" healing modalities such as Yoga, Acupuncture, Reiki, charismatic prayer, healing touch, and other practices rooted in ancient religious and spiritual traditions. It also examines scientific research on connections between religion and health, the mind-body connection, and the efficacy of alternative and spiritual therapies.

Prerequisite: One 3-credit TRS course.

TRS 381 - American Evangelicalism (3)

History and character of evangelicalism, a distinctive variety of Protestant Christianity that has had a major influence on the U.S. Topics include fundamentalism, impact on major social movements, and the political influence of evangelicals today.

Prerequisite: One 3-credit TRS course.

TRS 382 - North American Christianities (3)

Examines several American Protestant Christian movements that proposed new scriptures and new understandings of Christianity—for instance, the Shakers, Mormons, and Spiritualists. Asks how Christianity has adapted to cultural changes in areas such as work, education, family life, and healthcare.

Prerequisite: One 3-credit TRS course.

TRS 383 - Holocaust: Genocide & Religion (3)

Analysis of the Holocaust and other twentieth century genocides (Rwanda, Bosnia) with a focus on religion as a dimension of the causes of genocide. Assesses degrees of accountability for genocide among religious populations, both lay and clerical.

Prerequisite: One 3-credit TRS course.

TRS 384/385 - Elementary Ecclesiastical Latin I and II (3)

Provides foundation in the vocabulary, morphology, and grammar of Latin as used in Catholic Church documents and liturgies.

Prerequisite: One 3-credit TRS course.

TRS 386 - Religion in Literature (3)

Explores religious dimensions in the fiction of twentieth-century and contemporary novelists and short-story writers, and possibility in other literary formats such as poetry and memoir.

Prerequisite: One 3-credit TRS course.

TRS 387 - Religion in Film (3)

Explores the religious dimensions of a wide range of films, many of which are screened in class and then discussed. The course considers both subject matter and style/techniques.

Prerequisite: One 3-credit TRS course.

TRS 388 - Religious Issues in Science Fiction (3)

Uses science fiction films and short stories to investigate questions about humanity, the meaning of life, and the nature of the universe that have been posed by religious traditions.

Prerequisite: One 3-credit TRS course.

TRS 389 - Art and the Sacred (3)

Introduces students to some of the world's great religions through the agency of art, architecture, sculpture, music, and other artistic modes.

Prerequisite: One 3-credit 200 level TRS course.

TRS 391 - Religious Topics in Beauty (3)

Designates new or occasional courses that present the opportunity to study the theme of the search for beauty. Consult the current course schedule for available topics.

Prerequisite: One 3-credit TRS course.

TRS 392 - Religious Topics in Freedom and Equality (3)

Designates a new or occasional course that presents the opportunity to study the theme of freedom, equality, and the common good. Consult the current course schedule for available topics.

Prerequisite: One 3-credit 200 level TRS course.

TRS 393 - Religious Topics in Wellness (3)

Designates new or occasional courses that present the opportunity to study the theme of wellness and well-being. Consult the current course schedule for available topics.

Prerequisite: One 3-credit TRS course.

TRS 397 - Internship in Religion (1-3)

Offers an opportunity for qualified Theology and Religious Studies majors to gain practical experience in an area to which the discipline applies. Internships are arranged in advance of the semester in which they are to be taken.

Prerequisite: Permission of Theology and Religious Studies faculty.

TRS 399 - Major Capstone (3)

A topical seminar, drawing upon skills and content developed in the Theology and Religious Studies major. The student will write and defend a major research project. For TRS majors only.

WS - Women's Studies**WS 101 - Introduction to Women's, Gender, & Sexuality Studies (3)**

This course will introduce students to the interdisciplinary field of women, gender, and sexuality studies. Course context will cover important concepts, themes, theories, and historical events.

Procedures for Individuals Claiming Unlawful Discrimination or Harassment

Harassment

Harassment is a form of discrimination that violates Title VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act of 1967, (ADEA), and the Americans with Disabilities Act of 1990, (ADA).

Harassment is unwelcome conduct that is based on race, color, religion, sex (including pregnancy), national origin, age (40 or older), disability or genetic information. Harassment becomes unlawful where 1) enduring the offensive conduct becomes a condition of continued employment, or 2) the conduct is severe or pervasive enough to create an environment that a reasonable person would consider intimidating, hostile, or abusive. Anti-discrimination laws also prohibit harassment against individuals in retaliation for filing a discrimination charge, testifying, or participating in any way in an investigation, proceeding, or lawsuit under these laws; or opposing employment practices that they reasonably believe discriminate against individuals, in violation of these laws.

It is illegal to harass an employee because of race, color, religion, sex (including gender identity, sexual orientation, and pregnancy), national origin, age (40 or older), disability or genetic information.

It is also illegal to harass someone because they have complained about discrimination, filed a charge of discrimination, or participated in an employment discrimination investigation or lawsuit.

Harassment can take the form of slurs, graffiti, offensive or derogatory comments, or other verbal or physical conduct. Sexual harassment (including unwelcome sexual advances, requests for sexual favors, and other conduct of a sexual nature) is also unlawful. Although the law does not prohibit simple teasing, offhand comments, or isolated incidents that are not very serious, harassment is illegal if it is so frequent or severe that it creates a hostile or offensive work environment or if it results in an adverse employment decision (such as the victim being fired or demoted).

The harasser can be the victim's supervisor, a supervisor in another area, a co-worker, or someone who is not an employee of the employer, such as a student, client or customer.

Harassment outside of the workplace may also be illegal if there is a link with the workplace. For example, if a supervisor harasses an employee while driving the employee to a meeting.

Claims of harassment or discrimination are: (1) claims of violation of the University's nondiscrimination policy and (2) claims of violations of the University policy in opposition to harassment.

The following complaint procedure has been established to ensure prompt and effective investigation into allegations of discrimination or harassment.

An individual who believes that he/she has been discriminated against, including being harassed, may report the situation to the Executive Director for Human Resources who serves as the primary University officer responsible for Title VI, Section 504 of the Rehabilitation Act and the Age Discrimination Act. In the absence of the Executive Director or if the complaint is against the Executive Director, the report may be made

to the Vice President for Human Resources or any vice president of the University. Reports/complaints are to be filed within one hundred-eighty (180) calendar days of the incident or within ninety calendar days of the time that the individual reasonably becomes aware of the incident (note: this filing period may be extended for good cause). For Title IX complaints, reports should be made to the Title IX Coordinator, Julie Lawrence.

The report can be written or oral and should consist of the following:

- the specific conduct objected to,
- the date(s) and time(s) such conduct took place,
- the name(s) of the alleged harasser(s) or person(s) believed to be discriminating against the filer,
- the location(s) where the conduct occurred,
- the name(s) of any witness(es),
- action sought to remedy the situation,
- and any other details or information requested by the Executive Director or his/her designee.
- In addition, the individual should provide any documentation (e-mails, notes, pictures, etc.) or other information in support of the allegation of discrimination or harassment.

Informal Procedure

Any individual who believes that he/she has been unlawfully harassed or discriminated against may, if he/she chooses to, attempt to resolve the situation through a discussion with the other party. If that is not practical, the individual should consult with the Executive Director for Human Resources, who serves as the officer responsible for such complaints, or his/her designee. The purpose of this consultation is multifold.

The Executive Director or his/her designee will provide information and assistance to help the individual assess whether or not the behavior is harassing or discriminatory, will explain the University's grievance procedure, and provide guidance regarding the investigative procedure. There is no requirement that an informal resolution must be attempted by the complainant.

The individual may also request the Executive Director or his/her designee to attempt to facilitate a resolution of the grievance informally after investigating the matter. If the individual desires an informal resolution, the Executive Director or his/her designee will attempt to provide an informal resolution within twenty (20) working days of the receipt of the request.

Investigation of Complaints

Upon receipt of a complaint or report, a prompt investigation will take place in a confidential manner so as to disclose information only to those who have a need to know or those who may have pertinent information. The respondent and witnesses will be interviewed. Disclosure of the complainant's name will be made if in the judgment of the investigator it is necessary to the investigation. The investigation will be kept as confidential as possible without compromising the investigation.

The Executive Director or his/her designee (the investigator) will determine whether there is a reasonable basis for the complaint. At the conclusion of this stage of the investigation the investigator will report

his/her conclusions to the complainant in writing with the resolution of the complaint. The investigation should be completed within thirty (30) working days of the complaint filing unless extended for reasonable cause.

The investigation may be delayed during the period of an attempted informal resolution should the complainant desire it.

If it is determined that discrimination or harassment has occurred, the University will take action to stop the violation, prevent a reoccurrence, and correct any discriminatory effect. Such action may include counseling, warning, disciplinary action, termination of employment, or expulsion.

A confidential record of the proceedings will be maintained in a private file in the office of the investigator.

If a complainant is dissatisfied with the resolution because the investigation was not conducted as described above or due to the discovery of evidence not reasonably available during the investigation, he/she may request a review by the vice president of the University division within which the discrimination was claimed to have occurred. If the complaint involves that vice president, the President of the University or his/her designee shall conduct the review.

The request for review must be made within ten (10) working days of the notice of the result of the investigation. The review by the vice president must be completed within thirty (30) working days and submitted in writing either sustaining the investigation result or reopening the investigation for further consideration if the investigation was not conducted as described above or due to the discovery of evidence not reasonably available during the investigation. The decision on the review shall be final.

State and Federal Rights

The complainant may at any time file a complaint with the Department of Education, Office for Civil Rights, or other applicable federal or state agency for the enforcement of federal or state laws within the jurisdiction of such agency.

Timelines

Working days are days when the administrative offices of the University are regularly open for business; weekends, holidays, snow days, and days the University is closed shall not be counted as working days.

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Executive Director for Diversity & Inclusion

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Fairfield, CT 06825

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4000 Park Avenue
Bridgeport, CT 06606

Fairfield - Martire Center

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Fairfield, CT 06825

Fairfield - Sheila Hamilton Student Success Center

Park Avenue
Bridgeport, CT 06606

Fairfield - Maureen Hamilton Wellness Center

4980 Park Avenue
Bridgeport, CT 06606

Fairfield - West Campus

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University Directory & Contact Information

All University departments, faculty and staff contact information is available on the University website

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A listing of the University's Board of Trustees is available on the University website

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