

Worcester State University
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www.worcester.edu

CATALOG UNDERGRADUATE STUDIES

Academic Year 2016—2017

REV. 2/16/2017

The listing of a course in this catalog is not a guarantee that the course will be offered in any particular semester. Course offerings are subject to change in response to student enrollment, faculty availability, changes in program requirements and other circumstances.

Graduate information is available in the Graduate School Catalog which can be found online at www.worcester.edu/graduate.

TABLE OF CONTENTS

GENERAL INFORMATION	7
Prologue	7
Mission	7
Accreditation	8
Policy on Nondiscrimination	8
Family Educational Rights and Privacy Act	g
Campus	11
Community Relations	14
Change of Catalog Information	14
UNDERGRADUATE STUDIES	16
Degree Programs	16
ADMISSIONS	18
First-Year Student Admission	18
MDHE Massachusetts High School Unit Requirements (College Prep)	18
GED Recipients	19
Transfer Student Admission	19
Non-Traditional Applicants	20
Special Admission	20
Alternatives for Individual Development (A.I.D.)	20
Veteran/Military Applicants	20
International Applicants	21
Exceptions	22
Application Process	23
Admission Following Withdrawal from Worcester State or Leave of Absence	30
Special Non-Matriculated Students	31
Admission to Non-Degree Programs	31
Second Baccalaureate Degree	31
Evening Undergraduate Course Offerings	31
Post-Baccalaureate Pre-medical and Health Professions Program	31
Student Right-to-Know Act	34

ACADEMIC POLICIES AND PROCEDURES	35
Academic Honesty	35
Matriculation	42
General Requirements for the Baccalaureate Degree	42
Liberal Arts and Sciences Curriculum WSU Pathways to Discovery	44
First-Year Seminar	45
Laptop and Technology Requirement	50
Electives	50
Intent to Graduate	50
Program	50
Major/Minor	50
Concentration	51
Certificate	51
Academic Advising	51
Academic Support Services	52
Worcester State University Honors Program	53
Dean's List (posted for matriculated undergraduate students only)	53
Good Student Policy	54
Graduation Honors	54
Academic Achievement Awards Ceremony	54
Registration and Course Information	54
Transcripts	57
International Programs	57
Standards of Progress	59
Withdrawal from Worcester State University/Leave of Absence	60
Academic Reprieve Policy	61
Undergraduate Appeal Procedure	62
ENHANCED LEARNING OPPORTUNITIES	63
Reserve Officer Training Corps (ROTC)	67
SERVICES FOR STUDENTS	70
Athletics and Recreation	70
Bookstore	71

Campus Ministry	71
Career Services	72
Counseling Services	72
Student Accessibility Services (formerly Disability Services)	72
Health Services	73
Dining Services	74
Residence Life and Housing Services	74
Student Involvement and Leadership Development	74
Veterans Service	75
University Police Department	76
The Binienda Center for Civic Engagement	76
Discipline Information	78
ENANCIA INFORMATION	
FINANCIAL INFORMATION	
Tuition and Fees	80
Undergraduate State-supported Programs	80
Tuition Surcharge	81
Tuition and Fees – Fall 2016/2017	82
Room and Board	83
Evening Undergraduate, Graduate, and Summer Programs	83
Student Health Insurance	84
General Worcester State Refund Policy	84
Return of Title IV Funds	85
FINANCIAL AID	0.0
General Information	
Application Process	
Financial Aid Application Deadlines	
Sources of Financial Aid	87
Federal Grants and Benefits	87
Grants and Waivers for Massachusetts Residents	88
Student and Parent Loans	89
Student Employment	90

Tuition Payment Plan	91
Worcester State University Merit Scholarships for Entering Students	92
Worcester State University Academic Scholarships for Returning Students	93
ACADEMIC CALENDADO	0.4
ACADEMIC CALENDARS	94
OFFICE OF ACADEMIC AFFAIRS	97
Ethnic Studies.	98
Global Studies	102
Information Technology	114
Liberal Studies	115
Women's Studies	118
SCHOOL OF EDUCATION, HEALTH AND NATURAL SCIENCES	127
Biology	128
Biotechnology	145
Chemistry	154
Communication Sciences and Disorders	165
Computer Science	173
Education	186
Environmental Science	208
Geography and Earth Sciences	213
Health Sciences	232
Mathematics	249
Natural Science	264
Nursing	265
Occupational Studies	287
Physical Education	295
Physics	298
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES	301
Arabic	
Art	
Business Administration	
Communication	

Criminal Justice	341
Economics	350
English	358
French	373
History	376
Music	390
Philosophy	391
Political Science	397
Psychology	401
Sociology	414
Spanish	422
Theatre	434
Urban Studies	435
Visual and Performing Arts	445
World Languages	464
PROFESSORS EMERITI	466
OFFICIALS OF WORCESTER STATE UNIVERSITY	470
ADMINISTRATIVE OFFICES	473
Office of the President	473
Academic Affairs	473
Administration and Finance	477
Enrollment Management	478
Student Affairs	479
University Advancement	481
ALUMNI ASSOCIATION'S ADVISORY BOARD	483
FOUNDATION BOARD MEMBERS	484
INDEX	485
DIRECTIONS TO THE CAMPUS	491

Graduate information is available in the Graduate School Catalog which can be found online at www.worcester.edu/graduate.

General Information

Prologue

From its founding in 1874, Worcester State University has been dedicated to educational programs that lead to self-enrichment and to careers in the professions, government, business, and industry.

As a public, state-supported university governed by a local Board of Trustees under the direction of the Massachusetts Department of Higher Education, Worcester State University is empowered to award baccalaureate and master's degrees in education and in the arts and sciences. While continuing its tradition of serving the residents of the Commonwealth, Worcester State University has earned a reputation for quality teaching by dedicated faculty in classes of moderate size, and for programs responsive to its students' and society's changing needs.



Mission

Worcester State University champions academic excellence in a diverse, student-centered environment that fosters scholarship, creativity, and global awareness. A Worcester State education equips students with knowledge and skills necessary for lives of professional accomplishment, engaged citizenship, and intellectual growth.

Accreditation

Worcester State University is accredited by the New England Association of Schools and Colleges, (NEASC). NEASC is a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Accreditation of an institution by NEASC indicates that it meets or exceeds criteria for the assessment of institutional quality periodically applied through a peer group review process. An accredited school or college 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.

Accreditation by the NEASC applies to the institution as a whole. As such, it is not a guarantee of the quality of every course or program offered, or the competence of individual graduates. Rather, it provides reasonable assurance of the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the NEASC should be directed to the administrative staff of the school or college. Individuals may also contact the Association:

New England Association of Schools and Colleges The Sanborn House, 15 High Street Winchester, Massachusetts 01890 (617) 729-6762

The following programs are accredited by their respective professional organizations: Nursing, The Commission on Collegiate Nursing Education; Speech-Language Pathology, the Council of Academic Accreditation of the American Speech-Language-Hearing Association; Occupational Therapy, Accreditation Council for Occupational Therapy Education; Nuclear Medicine Technology, the Joint Review Committee on Educational Programs in Nuclear Medicine Technology; Education, Council on Accreditation of Education Preparation. Please refer to department chapters or department websites for addresses and telephone numbers of the accrediting organizations.

Policy on Nondiscrimination

Worcester State University is committed to a policy of nondiscrimination, equal employment opportunity, and affirmative action in its educational programs, activities, and employment practices. Worcester State maintains and promotes a policy of nondiscrimination on the basis of race, creed, religion, color, sex, sexual orientation, age, disability, veteran status, marital status, and national origin. This policy incorporates by reference the requirements of Federal Executive Orders 11246 and 11375 as amended; the Civil Rights Act of 1964 as amended; Title IX of the Higher Education Act of 1972 as amended; Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; Section 402, Vietnam Era Veterans Readjustment Assistance Act of 1974; the Civil Rights Restoration Act of 1988; and pertinent laws, regulations, and executive orders; directives of the Massachusetts Department of Higher Education, the Board of Trustees, the Commonwealth of Massachusetts, and other applicable state and federal statutes.

The Director of Diversity, Inclusion and Equal Opportunity may be contacted at 508-929-8117 regarding Worcester State University's policy of nondiscrimination and affirmative action (including compliance with Section 504 of the Rehabilitation Act of 1973, as amended).

TITLE IX/Policies and Inquiries

May be made by contacting The Office of Associate Dean of Students by contacting Student Affairs and Title IX Coordinator at 508-929-8964. Title IX of the Education Amendments of 1972, 20 U.S.C. §1681, prohibits discrimination based on gender in all programs or activities that receive federal financial assistance.

A primary purpose of the Massachusetts Board of Higher Education's Diversity and Sexual Violence Plan is to inform campuses in the Massachusetts State University System of each university's prohibition of all forms of discrimination, discriminatory harassment, sexual violence, sexual and gender-based harassment, domestic violence, dating violence, stalking and retaliation; efforts to prevent such behaviors; and the manner in which each university will respond to such behaviors, including the prompt, impartial, fair and thorough investigation and resolution of complaints. - See more at: www.worcester.edu/Title-IX.

Title IX forbids sex discrimination in all university Student Services and Academic programs including, but not limited to, Admissions, Financial Aid, Academic advising, Office of Residence Life and housing, Athletics, Health Services, Counseling, Office of Student Accessibility Services, Registrar's office, and classroom assignments, grading and discipline.

Title IX also forbids discrimination because of sex in employment and recruitment consideration or selection, whether full or part time, under any education program or activity operated by an institution receiving or benefiting from federal financial assistance. Academic accommodations related to Title IX will be handled on a case by case basis by the Provost and Vice President for Academic Affairs or her/his designee. Title IX website: www.worcester.edu/Title-IX

Family Educational Rights and Privacy Act

Worcester State University complies fully with the provisions of the Family Educational Rights and Privacy Act (FERPA) of 1974 as amended. This federal law protects the privacy of education records and establishes the rights of students to:

- Inspect and review their education records within 45 days of the day Worcester State receives a request for access.
 - Students should submit to the Registrar, dean, head of the academic department or other appropriate official, written requests that identify the record(s) they wish to inspect. The Worcester State University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the Worcester State University official to whom the request was submitted does not maintain the records, that official shall advise the student of the correct official to whom the request should be addressed.
- 2. Request the amendment of the education records that the student believes are inaccurate or misleading.
 - Students may ask Worcester State University to amend a record that they believe is inaccurate or misleading. They should write to the Worcester State University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.
 - If Worcester State University decides not to amend the record as requested by the student, Worcester State University will notify the student of the decision and advise the student of his or 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.
- 3. To file a complaint with the U.S. Department of Education concerning the alleged failures by Worcester State University to comply with the requirements of FERPA, the name and address of the office that administers FERPA is:

Family Policy Compliance Office • Department of Education Independence Avenue, SW • Washington, DC 20202-4605

Worcester State University accords all the rights under the law to students who are declared independent. No one outside the institution shall have access to nor will the institution disclose any information from students' educational records without the written consent of students with the exception of the following:

- Worcester State University officials within the institution
- · officials of other institutions in which students seek to enroll
- · persons or organizations providing students' financial aid
- · accrediting agencies carrying out their accreditation function
- · persons in compliance with a judicial order
- persons in an emergency in order to protect the health or safety of students or other persons.

All these exceptions are permitted under the Act. A Worcester State University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. A Worcester State University official is:

- a person employed by Worcester State 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 Worcester State University has contracted (such as a consultant, contractor, volunteer or other party to whom Worcester State University has outsourced institutional services or functions)
- · a person serving on the Board of Trustees
- a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

According to the law, a person becomes a student for purposes of FERPA when they are "in attendance" at an institution. This includes attendance in person or remotely by videoconference, satellite, internet or other electronic and telecommunication technologies. At WSU, a student is defined as someone currently or previously enrolled in any academic offering of the University. This does not include prospective students or applicants to any academic program of the University. A student is an individual who has paid an admission deposit (acceptance fee), registered for classes, or otherwise entered into a contractual relationship with the university to receive instruction. FERPA becomes effective on the first day of classes for those newly admitted students who have scheduled at least one course. A student who accepted an admission offer but did not schedule at least one course, or newly admitted student who cancelled his/her registration either before or after the semester begins, is not covered by FERPA.

At its discretion the institution may provide directory information in accordance with the provisions of the Act to include:

- student's name
- photograph
- major field of study
- · degree
- enrollment status
- weight and height of athletic teams
- address
- · date and place of birth
- grade level
- · recent school attended
- · dates of attendance
- honors/awards
- participants in officially recognized activities and sports

Directory information does NOT include a student's social security number or student identification number.

Currently enrolled students may withhold disclosure of directory information by notifying the Registrar in writing of the request prior to the end of the first week of classes in the Fall. Such requests will be honored for the duration of the academic year—September through August; therefore, authorization to withhold directory information must be filed annually with the Registrar. Worcester State University assumes that failure on the part of the student to specifically request the withholding of categories of directory information indicates individual approval of disclosure.

A request to withhold the above data in no way restricts internal use of the material by Worcester State University.

In compliance with the Family Educational Rights and Privacy Act of 1974, as amended, Worcester State University reserves the right to disclose information to parents of a student under 18 and/or the parents of a student who is dependent upon such parents for federal income tax purposes.

Campus

Worcester State University's 58 acre campus is nestled in the residential west side of Worcester, the second largest city in Massachusetts and New England and a dynamic college city with over 30,000 students. The campus is a short drive from tranquil forests, hiking trails and beautiful vistas and an even shorter distance from a vibrant city life that offers popular entertainment venues, award-winning restaurants, cultural museums, historic parks, and so much more. Directions are available on the website at www.worcester.edu/directions. The physical facilities of the Campus include the following:

Helen G. Shaughnessy Administration Building

Extensively renovated from 2007 to 2009, the Helen G. Shaughnessy Administration Building combines modern convenience and efficiency with much of the charm of the old Teachers College. The building first opened in January 1932 as Worcester State Teachers College, and was designed to accommodate 300 students with spacious classrooms, a gymnasium on the second floor, and a library on the fourth floor. Helen G. Shaughnessy was affiliated with Worcester State for 64 years—as a member of the Class of 1943, associate professor, chair of the Education Department, director of student teaching, director of personnel and labor relations, associate dean of Academic Affairs, and acting executive vice president.

Wellness Center

The new 101,000-square-foot Wellness Center replaced the 56-year old Gymnasium. The new complex features a competition gym, a two-court multi-purpose gym, a walking track, a two-floor fitness center, three multi-functional exercise rooms, a golf simulator, and community spaces. Its modern fitness and wellness amenities will benefit athletes, students and the greater community. The new center opened in Summer 2016.

Kalyan K. Ghosh Science and Technology Building

Opened in Fall 2000, the Science and Technology Building is a state-of-the-art building designed to house the sciences. The building contains 30 science, therapy, and computer labs; offices for faculty and staff; classrooms; conference/seminar rooms; and student discussion areas. This facility also houses a 200-seat multimedia classroom and Worcester State University's Mary Cosgrove Dolphin Art Gallery.

Learning Resource Center

The Learning Resource Center (LRC) houses the University Library, (www.worcester.edu/library) a welcoming venue and hub for knowledge and learning. The Library collection contains over 160,000 print books, 80,000 e-books, and media materials and over 125 databases with ubiquitous online access to 42,000 full text journals. The Library staff welcomes students during the 90+ hours of operation each week. Reference librarians, provide high-quality research assistance at the Research Help Desk and an extensive

course-based Library instruction program. The Library is a member of many local, state, and national Library consortia including the Academic and Research Collaborative (ARC), a consortium of 20 Worcester area libraries. Worcester State University students, faculty, and staff have full reciprocal borrowing privileges at each of these libraries via individually issued ARC cards. Library patrons may request materials from other libraries across the country and the world through a comprehensive interlibrary loan network. An inviting, café serving beverages and light meals is located near the Library entrance and has become a popular study and gathering place.

May Street Building

Formerly known as the Temple Emanuel, this 80,000 square foot colonial revival style building was built in 1949 to house the largest Reform Jewish Congregation in the Northeast at the time. In 2012, after many years of leasing classroom space to Worcester State University, the Congregation of Temple Emanuel began exploring with Worcester State Foundation, Inc. (the University's not-for-profit fundraising affiliate) the possibility of selling the facility and its adjacent 110-space parking lot. In June of 2015, the sale was completed and the University entered into a use agreement with the Worcester State Foundation for use of the entire building. Past uses have included classroom and academic space for the Sociology Department and the hosting of a wide variety of University events in the facility's large auditorium. Future uses for the May Street Building will be determined following a 2015-2016 space evaluation.

Worcester Center for Crafts

Worcester State University forged an affiliation with the Worcester Center for Crafts in 2009, a center that offers public instruction in Ceramics/Glass/Metals/Photography, in the art and aesthetics of craft and creativity, and in the appreciation of the hand-made aesthetic object. The Worcester Center for Crafts is located on three campuses: the main building at 25 Sagamore Road in Worcester; at 35 B New Street, home of the state-of-the-art Glass Studio; and on the campus of Worcester State University where a Darkroom Photography program is sited.

The WSU Visual & Performing Arts Department art studios are housed at the Sagamore Road campus in the same building as the Worcester Center for Crafts; VPA offers two craft center courses as part of its Division of Graduate and Continuing Education curriculum.

Outdoor Facilities

Worcester State University has the advantage of naturally attractive surroundings. Among its outdoor facilities are an artificial turf athletic field and an eight-lane synthetic track, baseball and softball diamonds, and tennis courts.

Residence Halls

Residence Halls at Worcester State University provide housing to full-time undergraduate students

Chandler Village is a unique living area with 63 apartments in 26 interconnected townhouses. The apartments accommodate four, five, eight, nine, ten, or eleven persons and include furnished common living and kitchen areas.

Dowden Hall, more traditional in style, is a five-story residence hall that includes single, double, and triple rooms with study and recreational lounges. There is a convenience store on the first floor and a fitness center in the basement.

Sheehan Hall, is the newest residence hall which opened Fall 2014. The facility accommodates 400 students and features the main campus dining hall overlooking the John F. Coughlin Field. Each unit consists of two double or four single rooms sharing a private

bathroom. In addition to housing students, this residence hall contains Health Services, the Office of Residence Life and Housing, a multifunctional room, game room, small fitness center, student lounges, and a communal kitchen.

Wasylean Hall, named for Phillip M. Wasylean II '64, is a six-story, suite-style building with multiple study and common rooms throughout. The suites are designed to accommodate four and six people. Each unit has single and double occupancy bedrooms with furnished common living and kitchen areas. There is a coffee shop on the first floor. Wasylean Hall is also home to the University Police.

Several housing opportunities exist which offer students the opportunity to live together, take classes together and participate in activities that focus on various special interests (See 'Services for Students' section for more information).

Student Center

The Student Center is available as a resource for the entire Worcester State University community and is conveniently situated at the geographical center of the campus. The first floor of the Student Center contains a food court area, Worcester State University bookstore, Information Desk, and the Print Center. The first floor also has several meeting/programming spaces including a fitness center, the Office of Student Affairs meeting rooms, Radio Station WSUR and SGA Offices, and Lancer Landing. The second floor houses the Office of Student Involvement and Leadership Development, and the Living Room—a lounge for commuters and residents with pool tables, ping-pong, video games and several TV's. The third floor contains student organizations suites along with a common lounge and dining, video game areas, and several TVs complete this space.

Sullivan Academic Center

Named for Eugene A. Sullivan, Worcester State president from 1947 to 1970, the Sullivan Academic Center is a primary instructional center on campus. It contains faculty and academic department offices, a large lecture hall (Eager Amphitheater), the Woo Café, classrooms and a large attached auditorium. The Sullivan Auditorium provides the setting for a number of formal ceremonies including the annual Senior Capping. Also located in the Sullivan Academic Center are the Center for the Study of Human Rights, and the Center for Teaching and Learning.

Community Relations

Worcester State University values its connections with the greater community, which include partnerships with numerous individuals and organizations. The professional staff participates in events sponsored by the Commonwealth of Massachusetts, the City of Worcester, and the local Chamber of Commerce; hosts conferences, legislative meetings, and community breakfasts; sponsors seminars, lectures, and workshops; and supports a variety of initiatives in the arts and multi-cultural events. Worcester State University's calendar includes numerous programs and events to which the public is welcomed.

The Office of University Advancement is responsible for fund development and alumni relations. Annually, the office coordinates a number of special activities for Worcester State University alumni including Reunion Weekend, Homecoming, and chapter events. Fundraising campaigns provide an array of benefits and services to current students, alumni, and friends. Contributions are used primarily for scholarships, academic awards, laboratory and classroom equipment, educational seminars, faculty research grants, and other support services to promote quality education. The office publishes a donor newsletter, manages an online alumni community, and works in partnership with both Marketing and Campus Communications to produce the *Worcester Statement*.

Campus Communications

The assistant to the president for campus communications handles media and public relations, as well as strategic communications. As chief spokesperson for the University, this individual seeks to raise the visibility and profile of the institution with the media and other key audiences. Working with the Marketing Office to edit and produce the on-line publication eNews, the assistant to the President for campus communications highlights the accomplishments of faculty, staff and students and communicates campus news.

Marketing

The Marketing Office works collaboratively with campus clients to promote Worcester State University as a distinguished public university. Worcester State University's Marketing team provides integrated marketing campaigns that include strategic brainstorming, editorial content and creative services for the University's website, publications, advertising, digital marketing and social media. The goal is for each campaign to reflect WSU's high quality, value and pride while communicating the University's story in an engaging and visual manner.

Change of Catalog Information

This catalog was prepared in the summer of 2016, with information available at the time of preparation. Provisions of this catalog are subject to change by order of the Massachusetts Department of Higher Education or the Worcester State University Board of Trustees. It is the policy of Worcester State University to provide advance notice of changes whenever it is reasonable and practical to do so. Changes to the Catalog need to be approved by the Associate Vice President for Academic Affairs.

WORCESTER S T A T E UNIVERSITY

Undergraduate Studies

Academic Programs

Worcester State University awards the Bachelor of Arts (BA) and the Bachelor of Science (BS) degree in 27 academic programs. Worcester State University also offers Minors in 33 academic disciplines as well as 5 Interdisciplinary Minors or Concentrations.

PROGRAM	MAJOR	MINOR/ IC**	SPONSORING DEPARTMENT
Art		X	Visual & Performing Arts
Bioinformatics		IC	Biology, Biotechnology, Chemistry, Computer Science
Biology	BS	Χ	Biology
Biotechnology	BS		Biology
Business Administration	BS*	Χ	Business Administration & Economics
Chemistry	BS	Χ	Chemistry
Communication	BA*	Χ	Communication
Communication Sciences & Disorders	BS	X	Communication Sciences & Disorders
Computer Science	BS	Χ	Computer Science
Criminal Justice	BS*	Χ	Criminal Justice
Early Childhood Education	BS		Education
Economics	BS	Χ	Business Administration & Economics
Elementary Education	BS		Education
English	BA*	Χ	English
Environmental Science	BS		Earth, Environment & Physics
French		Χ	World Languages
Geography	BS	Χ	Earth, Environment & Physics
Gerontology		IC	Urban Studies & Consortium Instruction
Global Studies		IC	Interdisciplinary Program
Health Education	BS*	X	Health Sciences

PROGRAM	MAJOR	MINOR/ IC**	SPONSORING DEPARTMENT
Health Fitness		X	Health Sciences
History	BA*	Χ	History & Political Science
Information Technology		Χ	Computer Science
Intergenerational Studies and Community Service	t	Х	Urban Studies
Liberal Studies	BA/BS*		Interdisciplinary Program
Mathematics	BS	Х	Mathematics
Middle East Studies		Х	History & Political Science
Middle School Education		Х	Education
Music		Х	Visual & Performing Arts
Nuclear Medicine		IC	Biology, Chemistry, UMASS Medical School Instruction
Nursing	BS		Nursing
Occupational Studies	BS		Occupational Therapy
Philosophy		Χ	Philosophy
Physics		Χ	Earth, Environment & Physics
Political Science		Χ	History & Political Science
Psychology	BS*	Χ	Psychology
Psychology-Biology		Χ	Psychology & Biology
Public Health	BS*	Χ	Health Sciences
Public Health (WSU)/Nursing (MCPHS University)	BS/BSN		Health Sciences/MCPHS University
Secondary Education		Χ	Education
Sociology	BS*	Χ	Sociology
Spanish	BA	Χ	World Languages
Sport Coaching		Χ	Health Sciences
Theatre		Χ	Visual & Performing Arts
Urban Studies	BS*	Χ	Urban Studies
Visual & Performing Arts	BA		Visual & Performing Arts
Web Development		Χ	Communication, Computer Science
Women's Studies		IC	Interdisciplinary Program

^{*}Majors that are also offered in the evening.
**Interdisciplinary Concentration (IC)

Admissions

Worcester State University seeks to enroll students who will succeed academically, thrive socially, and contribute meaningfully to the campus community.

First-Year Student Admission

A student's high school academic record is the single most important factor in WSU's evaluation process for first-year student admission. The quality and level of courses, grade point average, and grade trends are all important factors. SAT and/or ACT scores are required. Work experience and extracurricular activities may strengthen overall credentials for admission. SAT II test scores, a personal essay, and recommendation letters are not required but may add support to an application. The TOEFL or IELTS is required for students who are not native speakers of English. Specific requirements for competitive majors such as Nursing and Occupational Studies and Public Health/Pre-Nursing are described in the selective majors section.

Worcester State determines first-year and transfer student admission eligibility in accordance with the published standards established by the Massachusetts Department of Higher Education (MDHE). **Meeting these minimum standards does not guarantee admission to Worcester State.**

MDHE Massachusetts High School Unit Requirements (Academic Courses)

English 4

Mathematics 4 (Algebra I & II and Geometry or Trigonometry, or

comparable coursework)

Natural Science** 3 (including 2 with lab)
Social Science 2 (including U.S. History)
Foreign Language 2 (in a single language)

Electives 2

Minimum Grade Point Average in Required Courses

The grades earned in academic courses are re-calculated into a grade point average (GPA). In re-calculating GPA, extra credit is received for honors and Advanced Placement courses. Non-academic courses are not included; therefore, the GPA calculated by Worcester State may be different than the GPA calculated by a high school.

Grades will be converted to a 4.0 scale, where "A" = 4.0, "B" = 3.0, "C" = 2.0, and "D" = 1.0. On this scale, a 3.0 GPA is equal to a "B" average. A 3.0 minimum GPA is required unless the student attains one of the GPA/SAT combinations listed in the chart on the following page.

^{**}Beginning with the entering **Class of Fall 2017**, three years of lab-based science, including natural/physical sciences or technology engineering courses, will be required.

SAT or ACT Test Requirement

For students with a GPA of 3.0 or above, Worcester State reserves the right to establish additional criteria, such as a minimum SAT or ACT score and/or minimum class standing.

For those students with a GPA below 3.0, a clear-cut SAT/ACT score will be applied as a minimum standard in accordance with the Massachusetts Department of Higher Education Scale below.

<u>GPA</u>	<u>SAT</u> *	<u>ACT</u>
2.51-2.99	910	19
2.41-2.50	950	20
2.31-2.40	990	21
2.21-2.30	1030	22
2.11-2.20	1070	23
2.00-2.10	1110	24

- * Based on highest Critical Reading score and highest Math score.
 - The Occupational Studies program requires a 3.00 and 1000 SAT or 21 ACT minimum.
 - The Nursing program requires a 3.20 and 1050 SAT or 22 ACT minimum.
 - The Public Health/Pre-Nursing program requires a 3.00 GPA and 1000 SAT or 21 ACT minimum.
 - . No applicant with a high school GPA less than 2.00 will be admitted to a state university.

NOTE: The Massachusetts Department of Higher Education Scale is subject to change. Students who have graduated from high school more than three years ago and have never attended college should apply as non-traditional students (see section on next page) and may present SAT/ACT scores at their option.

GED Recipients

Candidates for admission who have completed the high school diploma requirement by earning the General Equivalency Diploma (GED) must submit official GED score reports with a minimum attainment in the 75th percentile in all subject areas and an official copy of their high school transcript showing work completed and/or attempted with grades earned. GED applicants must also submit official SAT score reports if their high school class would have graduated within the last three years.

Transfer Student Admission

Students who do not enroll as first-year students may attend a community college or other college or university and then transfer to Worcester State. To do so, one of the following requirements must be met:

- 1) 12-23 transferable college credits and a minimum 2.5 college GPA;
- Up to 23 transferable college credits, a minimum 2.0 college GPA, and a combination of high school grades and SAT/ACT scores that meet the admission standards for first-year applicants; OR
- 3) 24 or more transferable college credits and a minimum 2.0 college GPA.

If college credits have been earned while enrolled in high school, the admission standards outlined above for first-year student applicants must be met.

Previously attended college/university:

Complete, official transcripts of all work taken at any other institution must be submitted as part of the application process, whether or not credit for such work is desired or expected. Students who fail to acknowledge attendance at any college or university in which they have been enrolled automatically waive the right to have that work considered for transfer credit. They may also be subject to denial of admission, loss of course credit, and/or suspension from Worcester State.

Non-Traditional Applicants

When students apply to Worcester State more than three years after high school graduation and have never attended a college or university, they do not need to meet the admission standards for first-year students. Instead, they must show they are capable of succeeding at Worcester State based upon their high school transcript grades. Standardized test scores and other factors may be used as part of the admission process. A current resume or personal statement outlining life experience, career goals and specific reasons for applying to Worcester State may be submitted with the application.

Special Admission

If standards for first-year, transfer or non-traditional students are not met, acceptance may still be possible based upon other signs of potential for academic success in a four-year college or university program. Possible signs of success include steadily improving high school grades, high school class ranking, special talents, and strong recommendations.

Alternatives for Individual Development (A.I.D.)

The Alternatives for Individual Development Program (A.I.D.) is an alternative admissions program at WSU that provides educational assistance to under-represented prospective students who demonstrate the desire to succeed in college, including those who are ALANA and low income and/or would be the first in their families to attend college.

To be eligible, students must be incoming first-year students, meet the minimum admissions requirements, be a Massachusetts resident, and a U.S. Citizen and/or permanent resident. To apply, complete an undergraduate application and select "Yes" to question #19 on the application. Letters of recommendation from a school counselor and a high school teacher are required to complete the application.

Veteran/Military Applicants (VALOR Act Academic Credit Evaluation Policy)

The WSU Veteran/Military VALOR Act Academic Credit Evaluation Policy is designed to:

- Assist veteran/military applicants through the admission processes, which may require different standards and practices from the traditional freshman/transfer admission procedures.
- Assist with specific challenges and concerns as well as provide additional support in the applicant's re-acclimation to civilian life.
- Provide additional support structures to maximize success in a degree program.
- Maximize benefits students may qualify for, based on their years of service.

The Worcester State University Veteran/Military VALOR Act Academic Credit Evaluation Policy allows academic credit to be awarded for students' previous military occupation, military training, coursework and experiences towards degrees and certificates. The awarding of academic credit shall be determined by the Worcester State Admission Office and Academic Success Center, as defined by WSU policy and national best practices. Eligible students shall receive accurate and complete academic counseling in regards to the policy when they are admitted.

Admissions may use multiple methods for evaluating military occupation, training, experience and coursework for academic credit, including the ACE Guide to the Evaluation of Educational Experiences in the Armed Services, CLEP, DANTES Subject Standardized

Tests, and other methods. The appropriate method for evaluation is determined by Worcester State University, based on the type of military occupation, training, experience and coursework.

Once Admissions has posted credit to the student's academic record, the Academic Success Center will review the student's credit along with his/her program of study to determine the allocation of military credit in appropriate areas. All inquiries regarding the specific allocation of military credit should be directed to the Academic Success Center.

TO REQUEST MILITARY TRANSCRIPTS:

Military members and veterans (except the Air Force) can obtain military transcripts from the Joint Services Transcript system, at https://jst.doded.mil/. Air Force Transcripts are available from The Air University, at http://www.au.af.mil/au/ccaf/academics/index.asp.

TO REQUEST MILITARY MEDICAL RECORDS:

To attend WSU, students must provide medical documentation. Military and veteran medical records are available from the U.S. Department of Veterans Affairs, at https://www.myhealth.va.gov/index.html.

ADMISSIONS CONTACT:

Christopher Dooley, Assistant Director of Admissions Administration Building, Office 241 cdooley@worcester.edu 508-929-8793

ACADEMIC SUCCESS CENTER CONTACTS:

Tammy Tebo, Assistant Dean of Academic Services Administration Building, Office 130 TTebo1@worcester.edu 508-929-8933

Colleen Wheaton, Director of First-Year and Transfer Services Administration Building, Office 130 CWheaton1@worcester.edu 508-929-8043

International Applicants

Worcester State welcomes qualified international applicants. All of the documents listed below must be submitted before April 1 for the Fall semester (January 15 for Fall only Nursing and Occupational Studies Majors). No international applicants will be considered for the Spring semester unless:

- They are currently enrolled in an ESL program in the U.S.
- They are currently attending a U.S. college or university.
- They currently have a visa status that legally allows them to change to F-1.
- They were accepted for a previous semester but deferred attendance due to being refused a visa.
- Official high school/secondary school transcripts or national exam reports accompanied by formal evaluation by a professional evaluating agency. Transcripts not in English must be accompanied by a notarized English translation.
- Official college or university transcripts accompanied by a course-by-course formal evaluation by a professional evaluating agency in the U.S. (for courses taken outside the U.S.).

- 3) Official results of the TOEFL or IELTS; minimum TOEFL score of 79 (internet-based test) or minimum IELTS score of 6.5 is required. All TOEFL or IELTS scores must be submitted directly from the Educational Testing Service (ETS). For additional information, access www.toefl.org or call the Intensive English Language Institute (IELI) at Worcester State, 508-929-8120.
 - TOEFL or IELTS is a requirement for all applicants who have studied in a country where English is not the native language.
 - Applicants who have earned an Associate of Arts or Associate of Science degree from a regionally accredited U.S. college or university are not required to submit a TOEFL or IELTS score.
- 4) Official results of the SAT or ACT are required for all first-year student applicants who have graduated from a secondary school within the past three years and whose recalculated secondary school GPA is below 3.0.
- 5) Completed and notarized WSU Financial Affidavit form with appropriate backup documentation, all educational expenses incurred while at Worcester State for one academic year (currently a minimum of \$29,689 U.S. dollars*). *Subject to change
- 6) A copy of the identification page of the student's passport.
- 7) International applicants, who have attended another college or university or secondary school in the U.S., must forward a copy of their Form I-20 with their application.

Transcripts and other documents submitted in languages other than English must be accompanied by an English translation and course-by-course evaluation (if applicable) from a recognized agency or organization. For a list of approved evaluating agencies, please contact the Admissions Office. Students wishing to transfer in credit completed at a non-U.S. institution must be prepared to submit a course description and/or syllabus to the appropriate department chair in order to be granted credit.

Please note: Worcester State will not issue a Form I-20 to international applicants until the tuition deposit is paid. The tuition deposit deadline for the Fall semester is May 1st. There will be no exceptions to this deadline.

Exceptions

Documented Learning Disability

Students with a documented learning disability, do not have to submit test scores such as the SAT or ACT for admission to Worcester State. However, they must submit educational testing and assessment completed within the last three years and a copy of the Individual Education Plan (IEP) Students with learning disabilities must still complete the required 16 academic units with a minimum GPA of 3.0. First-year student applicants with a language-based learning disability may substitute two alternate academic electives for the foreign language course requirements. Applicants on a Section 504 Plan must meet all Department of Higher Education requirements.

English as a Second Language (ESL) Students

ESL students are eligible for exceptions to the admission requirements. For example, they may substitute two course electives for the two required foreign language courses. They must also take the Test of English as a Foreign Language (TOEFL) or IELTS and SAT and should contact their guidance counselor or the Admissions Office for more information.

Vocational-Technical Students

Vocational-technical students must complete 16 academic courses, distributed in the same manner and with the same minimum grade point averages required of other high school graduates, with the following exceptions:

- Two vocational-technical courses may be used to fulfill the two required electives.
- Vocational-technical high school graduates who do not complete the two required academic foreign language courses must complete an additional elective college academic for a total of three such courses, and satisfy one of the following options:
- 1) Complete at least one Carnegie unit of foreign language;
- Complete a fourth Carnegie unit of mathematics or science, which need not be a laboratory course; or
- 3) Complete one Carnegie unit of computer science.

Note: A Carnegie unit represents a full academic year of study or its equivalent in a specific subject.

This requirement will remain in effect until the Department of Education (DOE) implements its requirements regarding foreign language study for vocational-technical students. At that time, vocational-technical applicants for admission to Worcester State University will be required to meet DOE requirements for foreign language study.

Application Process

Directions for First-Year Student Applicants

Students may apply online at www.worcester.edu/apply.

Applications may be obtained from the Admissions Office, Worcester State University, 486 Chandler Street, Worcester, MA 01602-2597, 508-929-8040.

Each applicant must submit the following materials:

- an official copy of the high school transcript including first-quarter senior grades (Transcripts are deemed official only when sent directly to the Admissions Office from the high school.)
- an official copy of SAT, ACT, TOEFL, or IELTS (Test results should be submitted directly to Worcester State from the testing agency.)
- a completed Worcester State application form
- payment of an application fee: \$50 for all applicants.

NOTE: Worcester State requires official scores of all SAT results.

High school students must request an official high school transcript that includes at least the first marking period of the senior year. Also, a final high school transcript must be requested at the time of graduation that indicates successful completion of the requirements to graduate from high school. The Admissions Office must receive this official, final high school transcript before registration for courses and the final award of financial aid is approved. All transcript materials requested by the applicant become the property of Worcester State and cannot be released to the applicant or to other institutions, agencies, or individuals.

First-Year Priority Application Filing Dates: All materials should be submitted as early as possible. Preferred postmarked filing dates are as follows:

Fall Semester Early Action (first-year applicants only)

November 15

Nursing (BSN) and Occupational Studies (BSOS) - Fall only

Fall Semester Regular Decision (September entrance)

March 1

Spring Semester (January entrance)

November 15

After these dates, contact the Admissions Office to determine if applications are still being accepted. Please note that certain majors may not be available to students completing their applications after the priority filing dates.

All pertinent deposits and the orientation fee are due on or before May 1 for those students who meet the priority deadlines.

No Spring applications will be accepted for Nursing (BSN) or Occupational Studies (BSOS).

Directions for Transfer Student Applicants

Transcripts from colleges or universities previously attended are the primary factor in determining acceptance to Worcester State. To be considered a transfer applicant, a student must have successfully completed the requirements listed on page 19 at a regionally accredited college or university. The following materials must be supplied:

- An official final high school transcript, indicating proof of graduation from an accredited high school or a high school equivalency certificate indicating the test scores received.
 These must be received by the Admissions Office before clearance for registration or the award of financial aid is approved.
- An official transcript of all courses completed at each post-secondary institution attended (transcripts are deemed official only when sent directly to the Admissions Office from the previous colleges or universities).
- Transcripts and other documents submitted in languages other than English must be accompanied by an English translation and course-by-course evaluation (if applicable) from a recognized agency or organization. For a list of approved evaluating agencies please contact the Admissions Office. Students wishing to transfer in credit completed at a non-U.S. institution must be prepared to submit a course description and/or syllabus to the appropriate department chair in order to be granted credit.
- · A completed Worcester State application form.
- Payment of an application fee: \$50 for all applicants.

Transfer Priority Application Filing Dates: All materials should be submitted as early as possible. Preferred postmarked filing dates are as follows:

Fall Semester (September entrance) May 1

Spring Semester (January entrance)

November 15

Nursing (BSN January 15 (firm)

(Fall enrollment only - limited space into the first-year level)

LPN to BSN (September entrance) February 1
RN to BSN (September entrance) April 1

After these dates, contact the Admissions Office to determine if applications are still being accepted. Please note that certain majors may not be available to students completing their applications after the priority filing dates.

All pertinent deposits and the orientation fee are due on or before May 1 for those students who meet the priority deadlines.

MassTransfer

Students planning to transfer to one of the Massachusetts state-supported universities or UMass campuses are eligible for MassTransfer. MassTransfer provides community college graduates who complete designated associate's degrees with the benefits of the full transfer and applicability of credit, (2.0 GPA or higher if admitted), guaranteed admission (2.5 GPA or higher), and a full tuition discount (3.0 GPA or higher).

Benefits for students who complete associate's degrees under MassTransfer are:

Minimum Final GPA	Benefits
2.00 GPA	No admission fee or essay Guaranteed full transfer of a minimum of 60 credits applied to the bachelor's degree, if admitted Satisfaction of the general education/distribution/core requirements at the receiving institution, with the receiving institution able to add no more than six additional credits/two courses, if admitted
2.50 GPA	Guaranteed admission, plus all of the above benefits
3.00 GPA	A 100% discount, plus all of the above benefits (must be used within one year after date of graduation)

Stipulations:

- If students change their majors or if the linked baccalaureate programs require a higher grade point average or specific courses which are required of native students, MassTransfer students must meet these additional requirements.
- If, because of space or fiscal limitations, the receiving institution does not
 admit all qualified applicants to a given major or program, the receiving
 institution will use the same criteria for MassTransfer applicants as it does
 for its native students.

MassTransfer also provides students in the Massachusetts public higher education system the intermediate goal of completing a portable general education Mass Transfer Block that will satisfy the general education/distribution/core requirements across institutions. Students completing the Mass Transfer Block without earning a degree at any Massachusetts higher education institution with a 2.0 or higher grade point average if admitted will earn the 34 credit hours outlined below, exclusive of developmental coursework.

Mass Transfer Block		
English Composition/Writing	6 credits	
Behavioral and Social Sciences	9 credits	
Humanities and/or Fine Arts	9 credits	
Natural or Physical Science	7 credits	
Mathematics/Quantitative Reasoning	3 credits	
Total Credits	34 credits	

Benefits for students who complete the Mass Transfer Block are:

Minimum Final GP	Benefit
2.0 GPA	Satisfaction of the general education/distribution/core requirements at the receiving institution, with the receiving institution able to add no more than six additional credits/two courses, if admitted

Stipulations:

- Students enrolled in a specific major or degree program may be required to take additional courses if these courses are specifically required for the major or program and are required of native students.
- Completion of the Mass Transfer Block does not guarantee admission to the college or university

The \$30K Commitment

This program allows students to earn an Associate's Degree in a specific academic program from either Quinsigamond Community College or Mount Wachusett Community College and transfer to complete a Bachelor's Degree from Worcester State University. Students earn an Associate's and Bachelor's Degree in fours year at a total cost of \$30,000. To qualify, students must be full-time, non-residential, in-state residents and college ready. For more information, visit Worcester.edu/30k or email 30k@worcester.edu

STCC and GCC \$30,000 Degree Agreements

This program allows students to earn an Associate's Degree in a specific academic program from Springfield Technical Community College, or Greenfield Community College and transfer to complete a bachelor's degree from Worcester State University. Students earn an Associate's and Bachelor's Degree in four years at a total cost of \$30,000. To qualify, students must be full-time, non-residential, in-state and college ready.

Commonwealth Commitment

This program allows students to earn an Associate's Degree in a specific academic programs at any of the Massachusetts community colleges and transfer to complete a Bachelor's Degree from Worcester State University. Students earn an Associates and Bachelor's degree in four years with the possibility of a tuition and free rebate. To qualify, students must be full-time, non-residential, in-state residents, college-ready, and maintain continuous enrollment and cumulative 3.0 grade point average. For more information, visit Worcester, edu/commonwealth-commitment or email transfer@worcester.edu.

Transferring Credit from Other Institutions

Worcester State University determines transferability of credits from other colleges and universities based on best practices as outlined by the American Association of Collegiate Registrar's and Admission Officers (AACRAO), the American Council on Education (ACE), and the Council for Higher Education Accreditation (CHEA). Transfer and allocation of credit is determined based on the sending institution's regional accreditation, the comparability of the learning experience to WSU, and the applicability of the learning experience to the student's selected major/minor at WSU.

Stipulations that apply to transfer credit include:

- College-level courses completed at colleges and universities accredited by the New England Association of Schools and Colleges, or similar regional associations, are acceptable for transfer to Worcester State University.
- Coursework completed at non-regionally accredited institutions is considered on an individual basis, through a thorough examination of course content, syllabi, and/or learning objectives. Students may appeal the denial of transfer of credit from nonregionally accredited institutions to the Admissions Transfer Center.
- Transferability and allocation of courses to Liberal Arts and Sciences Curriculum (LASC) and/or free electives must be approved by the Admissions Transfer Center and Academic Success Center, according to established LASC transfer policies. (See LASC section under "Academic Policies and Procedures.)
- 4. Substitutions of transfer credit in the requirements of the major/minor must be approved by the department in which the major/minor is housed.
- 5. The completion of the MassTransfer Block at any Massachusetts community college, satisfies the WSU general core/LASC requirements, with the possible addition of two courses (6 hours) including a Capstone course and another LASC Content Area Course of the student's choice. Completion of the MassTransfer Block is confirmed upon receipt of an official transcript stamped with "MTB Complete".
 - The completion of a Bachelor's Degree from any regionally accredited institution of post-secondary education satisfies the WSU general core/LASC requirements. Completion of the Bachelor's Degree is confirmed upon receipt of an official

transcript from a regionally accredited college or university with a degree completion graduation date.

Transfer students without the MassTransfer Block or a Bachelor's Degree can transfer a maximum of 40 credits into LASC.

- 6. The maximum number of credits that can be transferred from a community or junior college to WSU is 72. The maximum number of credits that can be transferred from a four-year institution to WSU is 90. If a student has attended a combination of two-year and four-year institutions, a maximum of 90 credits, including no more than 72 credits from the two-year college(s), can be transferred.
- A residency requirement at WSU exists, which includes completion of at least 30
 of the last 40 credits of any degree program and completion of more than half of
 the major/minor courses while matriculated at WSU.
- 8. All transfer courses must be college-level. WSU does not accept remedial or developmental coursework in transfer.
- 9. Courses earned with grades of C- or better will be considered for transfer.
- 10. Life experience credit, internships, practica, colloquia, and cooperative education experiences at another college cannot be transferred to WSU. Credit for such experiences may be offered at WSU through a review with the American Council of Education (ACE) College Credit Recommendation Service.
- 11. The transfer credit evaluation process is conducted for new transfer students upon their deposit to WSU. Prior to depositing, new transfer students are provided an estimation of transferable credits in the acceptance letter.

American Council on Education (ACE) College Credit Recommendation Service (CREDIT)

Training programs in professional settings, industry, the armed forces and other institutions, offer educational opportunities that may be similar in content to Worcester State University courses. Transfer credit may be awarded for professional training programs through credit recommendations made by organizations that have evaluated such programs on the basis of college-level learning. The American Council on Education is the largest organization that evaluates training programs. Students who have completed ACE-evaluated programs, including military service, are encouraged to request an official ACE Transcript for evaluation. Students may not receive transfer credit for professional training if they have already received transfer credit for similar learning at colleges previously attended. Information on professional trainings that have been evaluated and transcript services can be found at www.acenet.edu/credit.

Pre-entrance Immunization Requirements

New first-year and transfer students must submit required health forms before registering for courses. For additional information refer to the Health Services section.

Delayed (deferred) Enrollment:

A student may apply for admission and, if accepted, decide to delay their enrollment. Students must submit a request in writing to the Admissions Office specifying which start term they intend to enroll (which may not to exceed one year from the original accepted start term). Students who request to delay their admission forfeit any merit scholarship, financial aid, and/or housing offered with the original acceptance. Requesting a delayed enrollment does not guarantee a student's later acceptance for the deferred start term. A student's application will be reviewed in the context of the newer applicant pool. More selective admission standards may apply. Students are encouraged to supply a statement explaining their activities while not enrolled in a post-secondary institution. As part of the re-evaluation process, students will be reconsidered for merit scholarships (Fall start only), financial aid, and housing.

Worcester State University Advanced Placement (AP) Guidelines

AP Exam	Score	WSU Course Equivalent	Credits
Art History	3, 4, 5	AR 112 & AR 113	6
Art 3D Design	3, 4, 5	AR 122	3
Biology	3, 4, 5	Biology, no specific classes; LASC NSP credit	6
Calculus AB	3, 4, 5	MA 200	4
Calculus BC	3, 4, 5	MA 201	4
Calculus AB Subscore (score given	3, 4, 5	MA 200	4
with Calculus BC exam)			
Chemistry	3, 4, 5	CH 120	4
Computer Science A	3, 4, 5	CS 140	4
English Language/Composition	3, 4, 5	EN 101 & EN 102	6
English Literature/Composition	3, 4, 5	EN 105	3
Environmental Science	3, 4, 5	Environmental Science Elective;	3
		LASC NSP credit	
European History	3, 4, 5	History Elective	6
Government & Politics of the US	3, 4, 5	PO 210	3
Government & Politics Comparative	3, 4, 5	PO 220	3
Human Geography	3, 4, 5	GE 102	3
French	3, 4, 5	FR 101 & FR 102	6
German	3, 4, 5	World Language Elective	6
Spanish	3, 4, 5	SP 210 & SP 211	6
Spanish Lit	3, 4, 5	SP 1XX	3
Microeconomics	3, 4, 5	EC 110	3
Macroeconomics	3, 4, 5	EC 120	3
Music Theory	3, 4, 5	MU 100	3
Physics B *Discontinued Exam	3, 4, 5	PY 221 & PY 222	8
Physics 1-Algebra based sequence	4, 5	PY 221	4
Physics 2-Algebra based sequence	4, 5	PY 222	4
Physics C-Mechanics	4,5	PY 241	4
Physics C-Electricity & Magnetism	4, 5	PY 242	4
Psychology	3, 4, 5	PS 101	3
Statistics	3, 4, 5	MA 150	3
Studio Art	3, 4, 5	AR 140	3
United States History	3, 4, 5	HI 111 & HI 112	6
World History	3, 4, 5	HI 103 & HI 104	6

^{*}Updated 5/16

International Baccalaureate (IB) Credit

The following equivalencies have been established for High-Level IB exams. Students who receive an IB Diploma and meet minimum honors admission criteria will be invited to participate in WSU's Honors Program.

Exam	Score 4	Score 5-7
Biology	BI 101 (4)	BI 101 (4)
Business & Management	BA 1XX (3) (elective) BA 200 (3)	
Chemistry	CH 110 (4)	CH 120 (4)
Computer Science	CS 101 (3)	CS 101 (3)
Economics	No Credit	EC 110 (3) and EC 120 (3)
English A1 (HL)	EN 105 (3)	EN 105 (3)
Film	CM 241 (3)	CM 241 (3) and CM 2XX (3)
Geography	GE 102 (3)	GE 102 (3)
History	HI 2XX (European elective) (3)	HI 2XX (European elective) (3)
Information & Technology for a Global Society (ITGS)	No credit	UR 230 (3)
Mathematics	MA 200 (4)**	MA 200 (4) and MA 201 (4)**
Modern Languages	SP/FR/WL 101 (3) and 102 (3)	SP/FR/WL 210 (3) and 211 (3)
Music	MU 100 (3)	MU 100 or MU 101 or MU 115 (3) Consult with department.
Philosophy	PH 100 (3)	PH 100 (3) and PH 110 (3)
Physics	No Credit	PY 105 (3)
Social & Cultural Anthropology	SO 110 (3)	SO 110 (3) and SO 2XX (3)
Theatre Arts	TH 191 (3)	TH 191 (3)
Visual Arts	AR 100 (3)	AR 100 or AR 112 or AR 113 (3) Consult with department

College Level Examination Program (CLEP)				
	Passing Score	WSU Course Equivalent (if Equivalent)	Credits	
Business				
Financial Accounting	50	BA 210	3	
Information Systems & Computer Applications	50	CS 101	3	
Introductory Business Law	50	BA 320	3	
Principles of Accounting* No longer available but	50	BA 210 & BA 220	6	
credits earned can be accepted	50	DA 200	-	
Principles of Management	50 50	BA 200 BA 318	3	
Principles of Marketing	50	BA 318	3	
Composition & Literature		LASC TLC-Thought, Language, Culture;		
American Literature with Essay	50	English Humanities Elective Not accepted for English major/minor	6	
Analyzing & Interpreting Literature with Essay	50	LASC TLC-Thought, Language, Culture; English Humanities Elective	6	
	=0	Not accepted for English major/minor		
College Composition	50	EN 101	3	
English Composition with Essay*No longer	50	EN 101	3	
available but credits earned can be accepted College Composition Modular		Not Accepted	NONE	
College Composition Modular		Not Accepted	NONE	
English Literature with Essay	50	LASC TLC-Thought, Language, Culture; English Humanities Elective Not accepted for English major/minor	6	
Freshman College Composition		Not Accepted	NONE	
		LASC TLC & CA-Thought, Language, Culture & Creative Arts;		
Humanities	50	General Elective	6	
Foreign Languages				
French Language, Level 1	50	FR 101 & FR 102	6	
French Language, Level 2	62	FR 101, FR 102, FR 210, & FR 211	12	
German Language, Level 1	50	Foreign Language Elective WL XXX	6	
German Language, Level 2	62	Foreign Language Elective WL XXX	12	
Spanish Language, Level 1	50	SP 101 & SP 102	6	
Spanish Language, Level 2	63	SP 101, SP 102, SP 210, & SP 211	12	
History & Social Science				
American Government	50	PO 210	3	
History of the US 1: Early Colonization to 1877	50	HI 111	3	
History of the US 2: 1865 to Present	50	HI 112	3	
Human Growth & Development	50	PS 210 or PS 215	3	
Introduction to Educational Psychology	50	ED 250 *10 hrs clinical fieldwork per department guidelines are required	3	
Introductory Psychology	50	PS 101	3	
Introductory Sociology	50	SO 100	3	
Principles of Macroeconomics	50	EC 120	3	
Principles of Microeconomics	50	EC 110 LASC GP & USW-Global Perspectives & US & it's Role in the World;	3	
Social Sciences & History	50	General Elective LASC GP-Global Perspectives;	6	
Western Civilization I: Ancient Near East to 1648	50	History Elective LASC GP-Global Perspectives:	3	
Western Civilization II: 1648 to Present	50	History Elective		
Science & Mathematics				
Biology	50	LASC NSP-Natural Systems & Processes; Biology Elective	6	
Calculus	50	MA 200	4	
Chemistry	50	LASC NSP-Natural Systems & Processes; General Elective	4	
College Algebra	50	MA 180	3	
College Mathematics		LASC QR/MA-Quantitative Reasoning;		
	50	Mathematics Elective	3	
	F.0	Not accepted for Math major/minor	-	
Pre-calculus	50	MA 190	3	
Natural Sciences	50	LASC NSP-Natural Systems & Processes; General Elective	3	
L	1	OCHELOI FIGURA	Revised 9/1	

Admission Following Withdrawal from Worcester State or Leave of Absence

Matriculated students who fail to take a course during a calendar year will be administratively withdrawn from Worcester State. Students who wish to permanently withdraw from Worcester State or take a temporary leave of absence must complete appropriate forms in the Academic Success Center. If the withdrawal or leave of absence is filed prior to the last day to withdraw from courses for the term, "W" will be recorded on the student's record. Students who file for leave of absence or withdrawal after the last day to withdraw from courses for the term may petition if they feel circumstances warrant the recording of "W" for all courses enrolled for that term. Normally, a leave of absence is for one semester; however, a student may have up to one year to return to Worcester State. Failure to return at the specified time will result in an administrative withdrawal from Worcester State.

Re-activation of Degree Status

There are two procedures in which students can reactivate their matriculation status at Worcester State after withdrawal/non-continuous attendance/dismissal: readmission and reinstatement.

Readmission:

If students have accumulated any undergraduate, college-level credit prior to seeking reactivation of the degree status and are not applying for the Nursing and Occupational Studies majors, they should apply for readmission through the Admissions office. Applications are available in the Admissions Office (Administration Building, Room 248) and online at www.worcester.edu/apply.

Reinstatement:

If students have not accumulated any college-level undergraduate credits prior to seeking reactivation of their degree status and are not applying for: Nursing and Occupational Studies majors, they should apply for reinstatement directly through the Registrar's Office (Administration Building, Room 107). Deadline for Fall-July 1; Spring-November 1; Summer-April 1. It is each student's responsibility to supply and update the following documents if not already on file.

- · final high school transcript
- · completed proof of residency form
- official transcript of all courses completed at each post-secondary institution attended (excluding Worcester State).

Upon completion of any missing data, the student's file will be reviewed and a plan for academic persistence and success will be developed. Students then must meet with an advisor in the declared major to register for classes.

Academic Progress after reinstatement/readmission

It is expected that students must attain a minimum GPA of 2.0 for each semester following their return. Failure to maintain a 2.0 overall average will result in a second separation from Worcester State not subject to appeal.

All reinstated students follow the degree, program, and graduation requirements from the catalog in effect at the time of their reactivation, not those in effect at the time of their withdrawal. Students need to attend Worcester State for at least one semester prior to graduation certification.

Special Non-Matriculated Students

Students classified as Senior Citizens, College Academic Program Sharing (CAPS) and Colleges of Worcester Consortium may enroll as Special Students. Others may enroll up to a maximum of 11 credit hours in day classes, on a space available basis at a time designated by the Registrar. Others who wish to enroll for more than 11 credit hours in state-supported courses must be admitted to Worcester State through the Admissions Office before taking courses. Non-matriculated students may register for evening classes through the Division of Graduate and Continuing Education during their registration periods.

Admission to Non-Degree Programs

Applicants who have already earned a bachelor's degree and wish to complete a second major, including all education license programs, should specifically request an undergraduate application form. Applicants who have completed a Non-Licensure program in Early Childhood Education may apply for a Non-Degree Licensure Education program. Such applicants must have a minimum of three (3) years teaching experience and have completed the equivalent of a second major in liberal arts and sciences.

Second Baccalaureate Degree

Applicants who have already earned a bachelor's degree may apply for a second baccalaureate, excluding Early Childhood Education, Elementary Education, Occupational Studies (BSOS) and Undeclared. Requirements for this degree can be found in this catalog.

Evening Undergraduate Course Offerings

Continuing Education undergraduate course offerings are available for matriculated and non-matriculated students. Matriculated students have the ability to register for evening Continuing Education classes during regular pre-registration periods for Fall and Spring semesters but may incur additional costs in tuition and fees. The Bursar's Office can assist in determining if additional costs will be incurred. During the Summer and Winter sessions, Continuing Education offers a wide variety of face-to-face and online classes. Matriculated students looking to "catch up" on credits or wanting to accelerate degree completion may take classes during these additional terms by registering and paying for classes. Continuing Education classes are available to all non-matriculated students. Instruction in Continuing Education courses is provided by Worcester State faculty and qualified adjunct faculty.

Post-Baccalaureate Pre-medical and Health Professions Program

This program is expected to meet the needs of students interested in medical, dental and veterinary school as well as those interested in pharmacy, physician's assistant, physical therapy, and optometry programs. Each student's history is evaluated and appropriate courses are advised based upon his/her specific needs. Students have access to Worcester State's Pre-medical and Health Professions Advisory Committee and, if necessary for a program, the recommendation letter process.

Students who complete thirty credits of the basic core sciences and/or other elective science courses at Worcester State University will receive a certification of completion of the program. Up to eight transfer credits will be allowed to contribute to the thirty credit total. Students will be required to maintain a 3.0 GPA to remain eligible for the program.

Admissions

This program is designed for students who need the basic science curriculum either as new courses (career changers) or as repeat attempts (GPA enhancement). A GPA of 2.75 overall is required for admission to the program. Students wishing to take an advanced curriculum are advised to seek a second baccalaureate degree through the undergraduate school. The basic courses are offered throughout the academic year, primarily in the evening. Summer courses are also available. Interested students should contact the Office of Graduate and Continuing Education or the coordinator of the program at premed@worcester.edu. Additional information and application materials are available at www.worcester.edu/premed.

Below is a list of the basic core courses and available electives. Since health professions programs differ in their requirements, students should contact the Pre-Med Advisor prior to registration to make sure they are taking the correct courses.

The Basic Core

CH 120	General Chemistry I (including lab)	4 credits
CH 121	General Chemistry II (including lab)	4 credits
BI 140	Introduction to Organismal Biology	
	(including lab)	4 credits
BI 141	Introduction to Cellular and Molecular	
	Biology (including lab)	4 credits
CH 201	Organic Chemistry I (lecture)	3 credits
CH 202	Organic Chemistry II (lecture)	3 credits
CH 203	Organic Chemistry I (lab)	2 credits
CH 204	Organic Chemistry II (lab)	2 credits
PY 221 or PY 241	Physics I (including lab)	4 credits
PY 222 or PY 242	Physics II, (including lab)	4 credits

Science and Math Elective Courses

MA 200	Calculus I
MA 201	Calculus II
MA 150	Statistics
BI 203	Genetics
CH 410	Biochemistry (including lab)
BI 161	Anatomy and Physiology I
BI 162	Anatomy and Physiology II
BI 204	Microbiology

Additional Admission Criteria for Selective Majors:

Nursing (BSN Track 1) and Occupational Studies (BSOS) are selective majors and have rigorous admission criteria and firm application deadlines which students must meet in order to be considered eligible to apply. Meeting minimum criteria and application deadlines does not guarantee a student's admission. First-year and transfer applications are processed through the Undergraduate Admissions Office. Current Worcester State students interested in changing their major should inquire directly through the host major department. Students who are competitive for admission to a selective major will have completed all appropriate pre-requisite courses and have an outstanding academic record. The following is used, along with other criteria, in considering applications to selective majors:

First-Time Applicants:

Nursing (BSN Track 1)

Early Action (First-year students only): November 15

Application Deadline: January 15

Admission Criteria: Re-calculated High School GPA equal to 3.2 or greater (on a 4.0 weighted scale) and SAT scores equal to a combined critical reading and math score of 1050 or greater or ACT Composite score equal to 22 or greater.

Transfer Applicants:

Nursing (BSN Track 1)

Transfer Application Deadline: January 15

Transfer Admission Criteria: Transfer applicants into Nursing (BSN Track 1) must complete prerequisite courses in English Composition I and II, Anatomy and Physiology I and II, and General Microbiology or Medical Microbiology before being considered eligible to apply (in progress coursework will not be considered). Students must have a minimum grade point average of a 2.75 or greater and grades of C or better in all pre-requisite courses. Meeting minimum standards does not guarantee admission and is based on space availability.

The application and all required supporting documents including official final high school transcript(s) and official college transcript(s) must be received by the January 15 firm deadline for transfer applicants. All required courses for transfer must be completed by June 1 of the year applying for admission.

Transfer applicants with questions should contact the Admissions Transfer Center at 508-929-8018.

Current Worcester State students may not change their major to Nursing. Students are encouraged to meet with their academic advisor.

Public Health - Pre-Nursing Program

The Public Health - Pre-Nursing Program is a dual-degree based on a formal affiliation agreement that admits a limited number of students into an articulated program that begins with 83 credits at WSU in the Public Health/Pre-Nursing program and ends with the accelerated Bachelor of Nursing program at the Massachusetts College of Pharmacy and Health Sciences University ("MCPHS University") Worcester or Manchester, NH campus. At the completion of the appropriate 37 credits (of the 63 required) at MCPHS University, the student transfers those credits back to WSU, and earns a Bachelor of Science in Public Health. The student then completes the additional number of appropriate credits (26) at MCPHS University to earn the B.S. in Nursing. Students should see the advisor in the Health Sciences department assigned to the program. *Please see entrance requirements in this catalog*.

The Bachelor of Science in Public Health requires the following 83 credits at WSU followed by the 63 credits in Nursing which will be taken at the MCPHS University campus in either Worcester or Manchester, NH.

Documentation of High School Diploma or Equivalency

All new incoming matriculating students must provide proof of completing high school by providing documentation of a high school diploma or equivalency: The University will accept any of the following:

- An official high school transcript sent directly from the high school stamped with the date of graduation.
- · An official GED transcript sent directly from the issuing agency.
- Original high school diploma or original GED certificate brought to the Admissions Office (photocopy retained).
- For records that are unobtainable or destroyed, applicants may submit a letter from the school superintendent (on official letterhead and with high school seal) indicating date of graduation and/or completion of high school or home school education.
- If a letter from a school superintendent is not available for missing or destroyed records, students may submit a signed statement explaining lack of availability to the Director of Admissions for consideration.
- Those documents awarded from a country outside of the U.S. must be translated and evaluated to U.S. standards through a credential evaluating agency.
- The acceptability of a high school diploma is determined by an evaluation of the
 institution's accreditation and curriculum. A high school diploma may be accepted
 if recognized by the state in which it was issued as offering a curriculum consistent
 with state law. Certificates of completion and diplomas representing non-academic
 curriculum will not be accepted.

Student Right-to-Know Act

The Student Right-to-Know Act of 1990 requires Worcester State to make available to prospective and enrolled students the graduation or persistence rates of selected groups of students. This information is available for review through either the Enrollment Management or the Undergraduate Admissions Offices.

Academic Policies and Procedures

Academic Honesty

Academic integrity is an essential component of a Worcester State University education. Education is both the acquisition of knowledge and the development of skills that lead to further intellectual development. Faculty are expected to follow strict principles of intellectual honesty in their own scholarship; students are held to the same standard. Only by doing their own work can students gain the knowledge, skills, confidence and self-worth that come from earned success; only by learning how to gather information, to integrate it and to communicate it effectively, to identify an idea and follow it to its logical conclusion can they develop the habits of mind characteristic of educated citizens. Taking shortcuts to higher or easier grades results in a Worcester State University experience that is intellectually bankrupt.

Academic integrity is important to the integrity of the Worcester State University community as a whole. If Worcester State University awards degrees to students who have not truly earned them, a reputation for dishonesty and incompetence will follow all graduates. Violators cheat their classmates out of deserved rewards and recognition. Academic dishonesty debases the institution and demeans the degree from that institution.

It is in the interest of students, faculty, and administrators to recognize the importance of academic integrity and to ensure that academic standards at Worcester State University remain strong. Only by maintaining high standards of academic honesty can WSU protect the value of the educational process and the credibility of the institution and its graduates in the larger community.

What Constitutes Academic Dishonesty?

Academic dishonesty includes intentional violations of accepted standards of ethics and academic integrity as well as negligent violations of standards that the individual reasonably should have known and followed. The following is not an exhaustive list of violations but provides guidelines for evaluating common areas of concern, such as cheating, plagiarism and falsification of information. Violations of academic honesty include:

- 1. Cheating, including but not limited to:
 - a. traditional cheating methods including copying on exams or assignments, letting other students copy one's own work, using crib sheets in quizzes and tests, glancing at other students' work, or giving answers to other students
 - b. giving or receiving unauthorized assistance in exams, laboratory exercises or other academic assignments or attempting to do so, or using unauthorized materials or information sources on tests or assignments, including communication via cell phones or computers or use of materials stored on or accessed by computer or other digital media, or collaboration between or among more than one student on an assignment that is supposed to be done individually

- submitting someone else's work as one's own or allowing others to claim one's own work as theirs including misrepresenting one's identity in an online course or allowing others to do so
- d. obtaining from any source an unauthorized copy of a test or assignment or portion of a test or assignment, and/or disseminating such material through any means including cell phone or computer.

2. Plagiarism, including but not limited to:

- use of other people's ideas, words, research or artistic creations without giving credit
 - submitting any work, including homework, not done by the person who hands it in and whose name is on it
 - ii. submitting papers or other work purchased, copied or obtained free in whole or part from another source, including papers from the internet or from another person, including a friend or a relative
 - iii. using another person's unpublished ideas without permission, taking credit for another person's unpublished ideas, or taking sole credit for the product of joint efforts with another person.
- improper or inadequate citation of material from books, professional periodicals, magazines, websites, unpublished reports, personal communications, images, graphic materials or other citable sources
 - i. use of facts, data, or specific ideas without citing the source
 - ii. inaccurate or incomplete citation of sources
 - iii. quoting another's words without indicating it is a quotation
 - iv. using extensive quotations in place of one's own ideas, even when cited.

Note: standards and forms for citation vary among disciplines and even among teachers. Students should ask their teachers about the expectations for any particular course or project.

3. Misrepresentation or falsification of information, including but not limited to:

- intentionally misrepresenting information to help make a point not supported by the work including misquoting or taking ideas out of context
- b. falsifying the collection or interpretation of data in a research project
- c. citing sources not used
- d. falsifying one's qualifications, including academic background or other experience.

4. Seeking credit for the same work in more than one course, including but not limited to:

- submitting the same paper or project, or significant parts of the same paper or project, to two or more different courses without getting permission from the professors who give the grades
- using the same internship or fieldwork experience for two or more different courses without prior permission from the professors and internship supervisors involved.

5. Other academic misconduct, including but not limited to:

- a. forging, damaging or changing examinations, grades or other academic material or records including written and/or electronic material and records
- b. interfering with or damaging another student's work including homework, papers, laboratory assignments, artistic creations or research projects

- removing or damaging academic material or equipment, including electronic data, belonging to Worcester State University or any other member of the Worcester State University community
- d. deliberately making a false report of academic misconduct or covering up an incident of academic misconduct.

What Are Possible Sanctions?

If the instructor chooses to resolve this issue without referring it to the Academic Judicial Board, he or she has the power to give the student penalties such as a warning, a new assignment or test to replace the one which was not done honestly, or a failing grade on the work in question or in the class. Instructors do not have the power to assign community service or to expel the student: those penalties are in the power of the Academic Affairs Office/Academic Judicial Board only.

Typically, instructors will use these powers to deter the student from cheating in the future without branding the student as dishonest in any official record; they may warn the student that they will come forward with proof of this infraction if they hear that the student has repeated the offense. Instructors may choose to give warnings, require new work, and/or give failing grades on assignments will do so the first time a student turns in dishonest work; a failing grade in the class is usually reserved for repeat offenders and serious, deliberate offenses such as turning in work done by another student as one's own, using electronics to get answers during in-class exams, or stealing exams or answer keys before a test.

The student has the right to appeal any instructor's decision to the Academic Judicial Board which may uphold or change the instructor's decision.

The Judicial Board may assign penalties ranging from a warning to expulsion. Comprised of faculty, students, and administrators, its membership is designed to be aware of the differences between different kinds of academic dishonesty and of the strains and temptations that may lead to bad decisions.

Unless it is dealing with repeat offenders, the Judicial Board will probably respond to minor infractions with failing grades on the particular assignment in question or in the course. Deliberate dishonesty, such as use of answer keys or electronic aids during exams, theft of examination papers prior to the test, submission as one's own of work done by another student or found or purchased online, etc. should be grounds for a failing grade in the course, with community service hours in addition as a possibility.

Repeated infractions would put offenders at risk of expulsion, as would extremely serious offenses, like stealing an examination and sharing it with other students before the test or having another student take a test in one's place in an online course.

Students at risk of expulsion will be given a written warning, which they will be required to sign and return within 10 working days.

Acts that are not only dishonest, but criminal, like changing a grade through illegal access to Worcester State University computers, can be punished by expulsion without prior warning.

Undergraduate Policies and Procedures for Handling Cases of Academic Dishonesty

1. Students' Rights

- a. Students will have the presumption of innocence until proven guilty.
- Students will continue their student status unless and until sanctions are imposed at the conclusion of judicial sanctions which would limit or remove this status.
- c. Students are allowed to have an advisor of their choosing at hearings of the Academic Judicial Board. The advisor may counsel the student during the hearing but may not address the Board.

- d. Students are allowed to view evidence against them.
- Hearings at the Academic Judicial Board will proceed even if the student does not appear. However, the student's absence cannot be the reason a student is found quilty.
- Students will be notified via certified mail if a report is being made concerning them in the Central File.
- g. Students may review their records in the Central File within 45 days of the day Worcester State University receives a request for access, as stated in FERPA.
- h. Students may ask Worcester State University to amend a record that they believe is inaccurate or misleading. They should write to the Provost/Vice President for Academic Affairs, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

Students should submit to the Provost/Vice President for Academic Affairs written requests that identify that they wish to view their record(s) in the Central File. The Provost/Vice President for Academic Affairs will make arrangements for access and notify the student of the time and place where the records may be inspected.

If the Provost/VP for Academic Affairs decides not to amend the record as requested by the student, Worcester State University will notify the student of the decision and advise the student of his or 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.

2. Initiation

In cases involving the violation of academic integrity, students and faculty are strongly encouraged to resolve matters without resorting to official judicial proceedings. If the faculty member and student are unable to resolve the issue themselves, the chair of the department in which the course was taken should be asked to mediate. If resolution is not possible at this level, the case will go to the Academic Judicial Board (refer to 3 below).

Faculty members and appropriate administrators are strongly urged to report any violations of academic integrity to the Academic Central File.

3. Academic Central File

An Academic Central File of students proven to have violated Worcester State University's Academic Honesty Policy will be kept in the Office of Academic Affairs. Only the Provost/Vice President for Academic Affairs or his/her designee will have direct access to the Central File. A file will only be created for a student upon a case's final resolution with a faculty member, with a department chair, or with the Academic Judicial Board.

Faculty members have the option of reporting students to the Academic Central File. Reports, which are statements of resolutions of cases and not allegations, that are sent to the Academic Central File must be supported with proof of some kind. For example, the instructor may submit a copy of a plagiarized paper along with a printout of the same paper from the internet. A faculty member who reports a student for the kind of cheating that can't be proved without a camera (copying from the person in the next chair, sneaking a peak at the book in a closed-book test, asking a classmate for an answer) must provide the reasons for the accusation in writing. Students who are added to the Academic Central File will be informed of the fact in writing.

Reporting a student is not necessarily linked to a disciplinary action; the faculty member still has discretion over whether to take the case to a judicial hearing. In special cases, when the Provost/Vice President for Academic Affairs notices that a student has two

or more significant violations in the Central File, he or she can refer the case to the Academic Judicial Board, which may then initiate disciplinary proceedings against this student.

Faculty members who provide evidence that a student in their course has violated the Academic Honesty Policy may meet with the Provost/Vice President of Academic Affairs or his/her designee to find out if a student has a file, and if so, how many times he/she has been reported to the Academic Central File. Relevant information limited to the student's name and number of times he/she has been reported to the Central File may be disclosed to a faculty member to assist in making decisions regarding cases of academic honesty. The procedures by which students access these files will be the same as those for accessing their academic records. The Academic Judicial Board, in the course of deciding a case of academic dishonesty, may access a student's file. A student's files are purged according to current FERPA rules. Students' files are purged upon graduation, withdrawal, dismissal or transfer from Worcester State University. When a student's file(s) have been purged, the student will be notified in writing by certified mail.

4. Academic Judicial Board

At any point beyond the departmental level, either the student or the faculty member may elect to take the issue to the Academic Judicial Board following the procedures outlined below.

- a. A student may request an Academic Judicial Board hearing:
 - because she or he has been unable to resolve an accusation of academic dishonesty with a faculty member or the chair of that faculty member's department
 - ii. in response to a notice that an Academic Central File posting is to be made. The student makes this request, in writing, to the Chairperson of the Academic Judicial Board, in care of the Office of Academic Affairs.
- b. Any member of the Worcester State University community may report any student to the Academic Judicial Board for violations of the Academic Honesty Policy. Reports shall be prepared in writing, directed to the Chairperson of the Academic Judicial Board (in care of the Office of Academic Affairs), and submitted as soon as possible after the incident takes place, preferably within 30 days. The Chairperson has the authority to extend this timeframe on a case-to-case basis.
- c. The Chairperson will determine if the complaint lacks merit and/or if it can be disposed of by mutual consent of the parties involved on a basis acceptable to the Chairperson. Such disposition shall be final, and there shall be no subsequent proceedings. If the case cannot be disposed of by mutual consent, the matter will proceed to the Academic Judicial Board.
- d. All charges shall be presented to the accused student in writing via certified mail with return receipt requested; the same letter will also be sent by first class mail to the student's current address as registered with Worcester State University. The hearing shall be scheduled not less than seven or more than fifteen calendar days after the student has been notified. All parties shall receive at least seven days advance written notice of the date, time and place of the hearing. Maximum time limits for scheduling of hearings may be extended at the discretion of the Chairperson.
- e. The Chairperson will schedule an Academic Judicial Board hearing.
 - i. The hearing will be conducted by the Chairperson of the Academic Judicial Board, chosen by the board members.

- ii. The Academic Judicial Board is comprised of two faculty members, one administrator and two students. The faculty members are appointed by the MSCA. The administrative member is appointed by the Associate Vice President for Academic Affairs, in consultation with the Provost/Vice President for Academic Affairs. The student members are appointed by the Student Government.
- iii. A quorum of three members must be present to convene a hearing.
- f. Hearings shall be conducted by the Academic Judicial Board according to the following guidelines:
 - All procedural questions are subject to the final decision of the Chairperson of the Academic Judicial Board present at the hearing.
 - ii. Hearings shall be conducted in private.
 - iii. In hearings involving more than one accused student, the Chairperson of the Academic Judicial Board, at his or her discretion, may permit the hearings concerning each student to be conducted separately.
 - iv. The complainant and the accused each have the right to be assisted by an advisor from the Worcester State University community. Advisors may counsel their respective party during the hearings, as permitted by the Academic Judicial Board. Advisors are not permitted to participate directly in the hearing.
 - v. The complainant, the accused and the Academic Judicial Board shall have the privilege of presenting witnesses to any violations of academic integrity. The accused and the complainant shall have the opportunity to cross-examine witnesses presented by the other. Members of the Academic Judicial Board shall have the right to question any witnesses.
 - vi. All hearings are closed to friends and relatives of the accused unless they were actual witnesses to the violation of academic integrity. Witnesses are excluded from the hearing except when called to testify.
 - vii. Pertinent records, exhibits and written statements may be accepted for consideration by the Academic Judicial Board at the discretion of the chairperson.
 - viii. After the hearing, the Academic Judicial Board shall determine by majority vote whether the student has violated Worcester State University's standards of academic honesty.
 - ix. The Academic Judicial Board's determination shall be made on the basis of whether it is more likely than not that the accused student violated the rules of academic honesty in the manner charged against him or her.
- g. A written record of Academic Judicial Board proceedings shall be made by the board or its secretary. This record shall be the property of Worcester State University and will be housed in the Office of Academic Affairs. The record will state the final decision of the board, a statement of the board's findings of fact, its determination of the provision(s) of the Academic Honesty Policy, if any, that the student violated and the sanction(s), if any, imposed. The record may also include a summation of witness testimony. A copy of the final decision shall be given to the complainant and the accused.
- h. Students may not be found to have violated the Academic Honesty Code solely because they fail to appear before a judicial body for a scheduled hearing. In all cases, the materials and information in support of the charges shall be presented and considered, as the hearing will be held in the absence of the student, should he/she fail to attend.

- i. In the absence of a functioning Academic Judicial Board or Academic Board of Appeals, such as during exams or during the summer and semester breaks, disciplinary hearings (under this Section 3, and the following Section 4) will be the responsibility of the Associate Vice President for Academic Affairs or his/her designee. When he/she deems it appropriate, a hearing may be postponed until the beginning of the new semester.
- j. Possible sanctions that the Academic Judicial Board could impose would depend upon the severity of the offense; however, the Board could choose to uphold the original faculty decision or impose another punishment, which might include failing the course, expulsion from the major or program, or expulsion from Worcester State University.

5. Academic Judicial Board of Appeals

The purpose of the Academic Judicial Board of Appeals is to conduct procedural reviews of cases. It is not intended as an evidentiary panel. It is not the job of the Academic Judicial Board of Appeals to hear new evidence.

- a. A decision reached by the Academic Judicial Board may be appealed by the accused student(s) or the complainant to the Academic Judicial Board of Appeals within five working days of the date of the decision letter. Such appeals shall be in writing and shall be delivered to the Associate Vice President for Academic Affairs or his/her designee.
- b. The Academic Judicial Board of Appeals will consist of one administrator, two students and two faculty members and will be chosen in the same manner as the members of the Academic Judicial Board (see 4.e.ii. above). The administrator in this case, will be the Associate Vice President for Academic Affairs or his/her designee.
- c. In cases where the student files an appeal, the complainant, and, in cases that were decided by Academic Judicial Board hearing, the Chairperson of that Board, shall be notified. In cases where the appeal is not initiated by the student, the student shall be notified.
- d. An appeal is not a new hearing but is a review of the summation/record of the initial hearing and supporting documents for one or more of the following purposes:
 - to determine whether the original hearing was conducted fairly in light of the charges and evidence presented, and in conformity with prescribed procedures
 - ii. to determine whether the finding of responsibility or no responsibility is supported by the weight of the evidence
 - iii. to determine whether the sanctions imposed were inappropriate.
- e. When the appellant wishes to introduce new evidence, sufficient to alter a decision, or other relevant facts not brought out in the original hearing, because the person appealing did not know such evidence and/or facts at the time of the original hearing, the Chairperson of the Academic Judicial Board of Appeal (the Associate Vice President for Academic Affairs) will decide whether to instruct the Academic Judicial Board to convene a new hearing of the case. If a case is returned to the Academic Judicial Board for consideration of new evidence, all parties shall have equal opportunities to submit new material.
- f. Upon completion of the appellate hearing, the Academic Judicial Board of Appeals shall promptly notify the accused student, the complainant and the chair of the Academic Judicial Board of the outcome of the appeal. Said decision(s) shall take one of the following forms:

Appeal Upheld: the appellant's request for relief has been honored. In the case of an upheld appeal, the new findings/sanctions shall be stated;

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<u>Appeal Denied</u>: the appellant's request for relief is denied and the finding(s) and/ or sanction(s) stand.

- g. In extraordinary circumstances, the Associate Vice President for Academic Affairs or his/her designee may waive the deadline for filing an appeal. The decision to waive or not to waive a deadline shall be final and shall not be subject to any appeal.
- h. No disciplinary sanction shall be imposed while an appeal is pending unless the Associate Vice President for Academic Affairs determines that such action would be in the best interest of the Worcester State University community.

6. Administrative Failing Grade

In cases where the sanction for academic dishonesty is determined to be a failing grade for the course, the Registrar will be informed immediately. The Registrar will record an administrative failure. Such a grade is not subject to withdrawal or appeal. A student who receives a failing grade for a course due to a violation of academic honesty cannot eradicate that failure through the normal grade appeal process or by withdrawing from the course.

Matriculation

Matriculation is a process whereby students are admitted to Worcester State University and pursue a formal course of study leading to the bachelor's degree, second major, certificate, professional certification or master's degree.

General Requirements for the Baccalaureate Degree

Candidates for a baccalaureate degree must complete 120 semester-hour credits with a minimum overall GPA of 2.0 and a minimum 2.0 GPA or higher in the departmental and ancillary courses in their major. To receive a baccalaureate degree from Worcester State University, a student must:

- complete 30 of the last 40 credits at Worcester State University
- · earn a majority of credits in the major at Worcester State University
- earn a majority of credits in the minor (if elected) at Worcester State University.

Students completing their degrees within six years must meet the degree requirements of the catalog under which they enter Worcester State University. After six years, students are subject to the degree requirements of the catalog in effect for their year of graduation.

Second Baccalaureate Degree: A student who holds a bachelor's degree from Worcester State University or another four-year institution of higher education accredited by regional accrediting agencies may be awarded a second bachelor's degree by completing a minimum of 30 additional semester hours of prescribed work at Worcester State University after matriculation into the second degree program. Twelve semester hours of the 30 must be in upper-level work in the student's major, and the student must meet all requirements for that major. In addition, in order to be granted a second degree, the student must meet all current catalog requirements for a baccalaureate degree at Worcester State University, as follows:

- All courses from the former institution which the Office of Admissions deems usable towards fulfillment of requirements currently existing at Worcester State University will be transferred to the student's second baccalaureate program.
- All courses transferred into the student's major for the second degree are subject to the approval of the Department Chair.
- As many credits from the former institution as are deemed appropriate by the Office
 of Admissions will be transferred to the student's second degree program as elective
 credits (up to and not to exceed 90 credits).

Post-baccalaureate students who seek a second major but do not seek a second baccalaureate degree at Worcester State University will receive a letter from the Registrar certifying completion of the second major upon completion of all prerequisites to the major and all requirements of the major. After matriculation into either post-Baccalaureate program, no additional transfer credits will be allocated as graduation credit.

Liberal Arts and Sciences Curriculum WSU Pathways to Discovery

An education in the liberal arts and sciences enables students to understand their world, and it equips them to analyze, appreciate, and affect that world. With these aims in mind, the faculty at Worcester State University have designed the university's Liberal Arts and Sciences Curriculum (LASC) to ensure breadth both in the range of subjects that students will encounter and in the range of approaches to that material. In addition, the Liberal Arts and Sciences Curriculum emphasizes the fundamental abilities and attitudes that make it possible to benefit fully from a liberal education. While the specialization provided by a student's major field of study is essential to a college education, the breadth and integration provided by the Liberal Arts and Sciences Curriculum supply an invaluable context for understanding the wider world.

Given the crucial importance of languages other than English in today's global society, the University strongly encourages the study of world languages, through the majors and minors, and also through combining the requirements in Global Perspectives and Thought, Language, and Culture. Students may also choose to study languages through their elective courses.

The Liberal Arts and Sciences Curriculum is aimed at achieving the following student learning outcomes. Having completed courses in the Liberal Arts and Sciences Curriculum, students will:

- Demonstrate effective oral and written communication.
- · Employ quantitative and qualitative reasoning.
- · Apply skills in critical thinking.
- · Apply skills in information literacy.
- Display an appreciation for the interrelations among global and cross-cultural communities.
- Develop a critical understanding of the U.S. experience.
- Understand the roles of science and technology in the modern world.
- Demonstrate and value personal creative expression.
- Understand how scholars in various disciplines approach problems and construct knowledge.
- Display socially responsible behavior and act as socially responsible agents in the world.
- · Make connections across courses and disciplines.
- Develop as healthy individuals physically, emotionally, socially, ethically, and intellectually.

Core Course Requirements

Core courses may not double with content area course requirements.

Writing (up to 6 credits)

[WRI, WRII]

Students must complete one three-credit course devoted to addressing the rhetorical abilities necessary for effective college writing and an additional three-credit course emphasizing formal academic genres, academic research skills, and the presentation of information to academic audiences.

The core writing courses may not be taken pass/fail.

Constitutions (3 credits)

[CON]

Students must complete one course that teaches the constitutions of the United States and the Commonwealth. Courses which meet this requirement will:

- Require students to study the Constitutions of the Commonwealth of Massachusetts and of the United States.
- · Consider the historical context, addressing
 - · antecedents in English law
 - idea of written fundamental law
 - · context of colonial history
 - failed predecessors (the 1778 constitutions and the Articles of Confederation)
 - mechanism of drafting, ratification and amendment
 - influence of the Massachusetts Constitution on the U.S. Constitution.
- Consider political thought in contemporary society, addressing
 - · how each constitution shapes modern life
 - differing interpretations, including by the courts
 - · current issues related to each constitution
 - basic national, state and/or local political processes, and the rights and obligations of citizenship.

First-Year Seminar (3 credits)

[FYS]

All first-time, first-year students will be enrolled in and must complete a first-year seminar. The first-year seminar will be a three-credit course with enrollment limited to 20 students and taught exclusively to first-year students in a seminar format. First-year seminars are listed with the LC or department prefix followed by the number 193 (LC193). Any makeup of the First-Year Seminar requirement must be successfully completed within the first 60 credits of study.

First-Year Seminars:

- Engage beginning college students and explore diverse topics that are more controversial or more narrowly focused than standard introductory courses.
- Encourage students to apply the knowledge that they acquire to address specific problems and challenges within the University, the community, and the world.
- Encourage students to be active, reflective learners.
- Include assignments or activities that orient students to and require the use of the library, educational technology, and standard methods of reference and citation,
- Encourage students to participate in student life and community activities that are part of the first-year experience.
- First-year seminars differ from other courses in that they have a limited enrollment, are designed for first-year students, and emphasize the academic tools necessary to ensure a successful Worcester State University experience.

Capstone Experience (variable credit)

[CAP]

Capstone seminars are offered to students in their junior or senior year through their major field of study for varying credit or through a three-credit course offered within the Liberal Arts and Sciences Curriculum. Capstone seminars completed within a student's major field of study will count toward major requirements. Enrollment in capstone seminars will be limited to 20 students.

Capstone seminars:

- provide students the opportunity to demonstrate mastery of a subject area or skill
- require synthesis and integration of prior knowledge and abilities
- are designed to facilitate the transition from WSU to the world of work, professional development and/or graduate studies
- may include research, leadership and internship opportunities, artistic projects, the production of a portfolio of student work, and/or other culminating learning experiences.

Content Area Course Requirements

Students will complete courses in eight content areas. Courses in the Liberal Arts and Sciences Curriculum will not generally serve as major courses.

Creative Arts (3 credits)

[CA]

Students must complete one course.

Courses in this area:

- Encourage recognition that artistic expression varies from one society and culture to another.
- Explore different traditions, styles and historical periods in the arts.
- Promote freedom of expression and tolerance of divergent viewpoints.
- Consider the importance of aesthetics and instill an awareness of how the arts improve the quality of life.
- Enable each student to cultivate his or her creative potential.
- Teach the terminology, techniques and skills that comprise the arts in order to provide the framework for informed creativity.

Human Behavior and Social Processes (3 credits)

[HBS]

Students must complete one course. Courses in this area:

- Develop an understanding of how factors such as market forces, politics, demographics, physical environment, and culture affect individual behavior and thinking.
- Examine political, economic and social structures and the interplay between the individual and society.
- Explore the ways in which the individual is an agent in shaping and understanding his or her own experiences.
- Consider the ways in which individual and social roles and identities are socially constructed.
- Show how the results of social research can be used to effect social change.
- Teach the differences between and appropriate uses of qualitative and quantitative research methods.
- Investigate the ways in which scientific inquiry is value-laden.
- Help students understand the ways in which the various social sciences inform one another.

Individual and Community Well-being (3 credits)

[ICW]

Students must complete one course. Courses in this area:

- Explore the growth and development of the individual and address the interconnected dimensions of well-being.
- Study and evaluate the ways that the local, state, national, or private sectors frame and implement social policies, and the consequences of these policies for well-being.
- Examine social structures and practices such as urban and rural development, planning, funding allocations, and legislative initiatives designed to secure the wellbeing of the community.
- Examine the short and long-term consequences of beliefs, behaviors and policies that affect the well-being of individuals and communities.
- Address the role of prevention strategies in promoting well-being.

Global Perspectives (3 credits)

[GP]

Students must complete one course. Courses in this area:

- Study the culture, history, or language of a nation or geopolitical area other than the U.S.
- Consider culture, power and place in phenomena such as globalization, cultural colonialism, transnationalism, and human rights.
- Investigate issues about the environment and sustainable development in phenomena such as the use of natural resources and macroeconomic problems that affect people and ecosystems around the world.
- Study governance, peace and justice in a global context.
- Analyze the international political economy in relation to governments, enterprises, societal groups and communities from different countries.
- Consider issues such as race, class, gender, age, sexuality, language, ability, indigenous populations, transnational labor and refugee migration.

Natural Systems and Processes (minimum of 6 credits)

[NSP]

Students must complete a minimum of two courses. At least one of the courses taken in this area must have a laboratory component.

Courses in this area:

- Study physical and natural systems and processes.
- · Apply scientific models, theories, and technology to problems facing society.
- Have an analytical and/or quantitative component and include interpretation, communication and/or presentation of data and results.
- Compare and contrast various modes of scientific inquiry.
- Place scientific inquiry within its historical and contemporary contexts.
- Use and reflect on the scientific method of investigation.
- Address the strengths and limitations of scientific inquiry in human understanding.
- Encourage students to become scientifically literate citizens and be able to evaluate scientific information.

Quantitative Reasoning (minimum of 6 credits)

[QR]

Students must complete a minimum of two courses. All students must pass the Math Placement Test at the stipulated level. In this category students must complete a course with the MA (mathematics) prefix within their first 60 credits of study (exceptions to this time frame may be necessary for transfer students). Courses in this area:

- Acquaint students with formal systems, procedures, and sequences of operations.
- Strengthen students' understanding of variables and functions.
- Apply mathematical techniques to the analysis and solution of real-life problems.
- Develop an understanding of and facility with statistical analysis, including an
 understanding of its applications and limitations. Courses meeting these criteria
 must emphasize why statistical inference works and not simply how to use statistical
 techniques.
- Strengthen understanding of the relationship between algebraic and graphical representations.
- Emphasize the importance of accuracy, including precise language and careful definitions of mathematical concepts.
- Understand both underlying principles and practical applications of one or more fields of mathematics.

Thought, Language, and Culture (3 credits)

[TLC]

Students must complete one course. Courses in this area:

- Explore human thought, history, culture, art, literature, and language (including world languages).
- Present the subject in the context of competing theoretical frameworks, for example, about race, gender, historiography, textual analysis, or cultural interpretation.
- Synthesize approaches from different disciplines.
- Explore problems of ethics, politics, aesthetics, epistemology, and metaphysics.
- Use original works as the primary object of study.
- Require discursive written work, including standard references and citations, for evaluation or extensive written work in a second language.

The United States and Its Role in the World (3 credits)

[USW]

Students must complete one course. Courses in this area:

- Study cultures, histories, and social practices in the U.S., including consideration of the ways that differences in power affect different racial, ethnic, gender, and cultural groups as evidenced by readings, texts, testimony, and narratives.
- Address issues of economic and political power that shape the U.S. and the world
- Trace the roots and development of U.S. political and economic institutions at home and around the globe.
- Focus on particular aspects of U.S. culture and how understanding them helps to illuminate the larger context of U.S. society and its role in its world.

Across the Curriculum Course Requirements

Across the Curriculum courses may be met with Content Area courses, courses in the major and general elective courses. A single course may fulfill more than one Across the Curriculum area. First-year seminars may be approved for QLAC and DAC. Capstone seminars may be approved for DAC, WAC, and/or QLAC.

Writing Across the Curriculum (3 credits)

[WAC]

Students must complete one Writing Across the Curriculum course after completing the writing requirement. Students may complete the WAC requirement in a language other than English. Placement at the 300-level in a language other than English will satisfy the prerequisite for WAC courses in that language. Courses in this area:

- Require a variety of formal and informal writing assignments. Formal writing
 assignments may include traditional essays and research papers, case studies,
 process analyses, and reports on research findings. Informal writing assignments may
 include journals, lab notebooks, reading responses, and in-class essay examinations.
- Offer students instruction in the conventions of writing for a particular discipline.
- Assign writing of different lengths and different formats, for a minimum total of approximately 2500 words (or ten pages) during the course of the semester.
- Provide opportunities for revision.
- Incorporate clear explanations of assignments and various approaches to instruction such as workshops, individual conferences with the instructor, and/or assignment criteria handouts.
- Offer different types of feedback, such as traditional grading and evaluation, peer review groups, self-assessment, and writing center sessions.

Diversity across the Curriculum (3 credits)

[DAC]

Students must complete one Diversity Across the Curriculum course.

Courses in this area:

- Study historical experiences, cultural patterns, and social advantages and disadvantages of different groups within the society.
- Explore social problems such as racism, prejudice, discrimination, and exploitation as both mainstream and non-mainstream groups experience them.
- Examine the diversity within each group's experience and how such experiences are dynamic and continuously changing.
- Help students develop a sound knowledge of the methods of thinking about issues of diversity, particularly the ability to distinguish facts from interpretations and opinions.
- Include materials written by as well as about persons from diverse groups.
- Develop an appreciation/respect for members of diverse groups.
- Demonstrate how to communicate culture-specific and/or culture-general ways with diverse groups in various contexts.

Quantitative Literacy Across the Curriculum (3 credits)

[QLAC]

Students must complete one Quantitative Literacy Across the Curriculum course. Within the framework of a scholarly discipline Quantitative Literacy courses will develop a student's ability to.:

- State and evaluate important assumptions in the quantitative reasoning process (estimation, modeling, and data analysis).
- Convert relative information into various mathematical forms (e.g. equations, graphs, diagrams, tables, words)
- Make judgements and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis.
- Express quantitative evidence to support the argument or purpose of the work (in terms of what evidence is used an how it is formatted, presented and contextualized.)
- Make judgments regarding the appropriateness of a numerical answer.
- Explain information presented in mathematical form (e.g. equations, graphs, diagrams, tables, words)

LASC Transfer Policies

- Mathematics course will be transferred as QR for maximum of six credits in LASC.
- Science courses in Physics, Chemistry, Biology, and GeoSciences transfer as NSP for a maximum of seven credits. A lab science course transfer as a NSP lab course.
- Psychology, Economics, Political Science, Anthropology, Cultural Geography, Sociology, and Education courses transfer as HBS for a maximum of three credits.
- Philosophy, Literature, Religion, Communication (theory), and Language courses transfer as TLC for a maximum of three credits.
- Art, Communication (applied), Music, and Theatre courses transfer as CA for a maximum of three credits.
- · Health and Nutrition courses transfer as ICW for a maximum of three credits.
- History courses transfer as USW, GP or TLC for a maximum of six credits.
- All other transfer courses will be reviewed individually by the LASC Program Chair, in consultation with appropriate academic departments, The LASC Advisory Board, or the Associate Vice President for Academic Affairs.
- Courses transfer as Across the Curriculum courses in consultation with the LASC Program Chair, Across the curriculum courses that have an equivalency will not automatically transfer as such.

Laptop and Technology Requirement

Entering full- and part-time first-year and transfer students are required to own a laptop computer when they arrive on campus. For more information please visit http://uts.worcester.edu.

Electives

Having met the LASC requirements and those of the major (and minor, where applicable), a student may elect other courses without restriction to complete the 120 semester hours of credit necessary for graduation. Since the purpose of elective courses is to encourage exploration in diverse fields of knowledge, students are urged to take advantage of the opportunity to broaden and deepen their intellectual development.

Intent to Graduate

The degree and diploma will be granted within 60 days of the final day of examinations for the semester in which degree requirements have been met providing that students have adhered to the following deadlines for filing an Intent to Graduate form:

December completion:

May completion:

August completion:

Last Friday of October

Last Friday of December

Last Friday of May

Program

A program is an approved academic course of study whether it be a major, minor, or concentration.

Major/Minor

Major: Upon or after admission to Worcester State University, and in any case prior to the beginning of the junior year, degree seeking students declare an intent to major in a specific discipline or an approved interdisciplinary area. In general, a major is completed by earning between 30 and 48 credits with a minimum GPA of 2.0. Students may take additional electives in their major if desired. Courses are selected under the direction, and with the approval of the student's faculty advisor in the major.

Declaration: A department and/or an appropriate interdisciplinary committee administering an interdisciplinary major may establish standards for admission of enrolled students into their major and minor programs. The standards are not based solely on any GPA. They may be based on grades earned in prerequisite courses, demonstration of special knowledge and skills through test, portfolios, interviews, and other relevant criteria. Departments and interdisciplinary major administering committees must have standards approved by the All University Committee. A minimum GPA at variance with Worcester State University's policy may not be used as a standard for retention as a major or minor student within a department and an interdisciplinary program. Transfer credits must be approved by the major department or the corresponding program administering committee.

Minor: Although not required for graduation, a minor may be completed by earning between 18 and 24 credits in a discipline other than the student's major discipline and/or in an interdisciplinary program.

Changing Major or Minor: A student wishing to change a major or minor field of study completes the Declaration/Change of Major/Minor Form at the Office of the Registrar. A request for a change in major or minor must be made in the Fall by mid-October and in the Spring by mid-March. Forms for the declaration or change of a major/minor are available at the Office of the Registrar.

Note: A student wishing to declare/change into Criminal Justice, Education, Nursing, or OT must obtain approval from the Chair of the department.

Concentration

A concentration is a specialized track within a major or an approved interdisciplinary track of study. The number of credits and courses of study required to earn a concentration within a major is determined by the major department or the program administering committee.

An interdisciplinary concentration may be completed by earning between 12 and 17 credits in a specified course of study as determined by the program administering committee.

Certificate

A certificate is a course of study leading to a professional credential or certification. The number of credits or courses required is determined by the program offering the certificate.

Academic Advising

Students are assigned a faculty member from their major department to serve as their advisor. Undeclared students have faculty/academic advisors assigned as well. Each student meets with his/her academic advisor during the regularly scheduled advising period each semester to review academic progress and select courses for the coming semester. All advisors have office hours so the student should contact the advisor whenever information or an opinion on an academic matter is needed. Refer to the *Academic Advising Handbook* online (www. worcester.edu/handbook) or the Academic Success Center for further information.

Faculty advisors must approve all courses taken off-campus using appropriate forms available in the Office of the Registrar.

Academic Support Services

Academic Success Center

The Academic Success Center is located in the Administration Building, Room 130. It focuses on:

- advising (for new first-year students, transfer students and undeclared students)
- walk-in advising for all students
- testing-including Accuplacer and CLEP
- group tutoring in specific courses
- organization of student workshops that assist students with academic issues

Tutoring Services

The aim of Tutoring Services is to increase student academic effectiveness. The Academic Success Center provides group and walk-in tutoring in a variety of courses. If the Academic Success Center does not provide tutoring in a specific course, students are encouraged to attend Academic Workshops, as this is the time when students are learning how to adjust to college-level study. The focus, therefore, is on learning how to learn rather than on content area tutoring. Accordingly, Academic Workshops will assist students in improving their study skills, test-taking skills, and time management skills. Students who think they may need academic assistance in order to achieve their educational objectives should visit the Academic Success Center as soon as possible to maximize the benefit of these services.

Math Lab Services

The Worcester State University Math Lab, housed next to the Math Department (S143), is staffed with a supervisor and peer tutors with day and evening hours (Monday through Friday). Its main function is to offer students, who have not received a passing score on the Accuplacer Arithmetic and/or Elementary Algebra test, resources for skill development.

This lab offers developmental tutoring on a walk-in basis and houses the mathematics library as well as tutorial software. Any student in need of refreshing their mathematics skills, or tutoring for MA 098 and MA 099, may use this lab which has both a wireless network connection for lap-top users and several desktop computer stations.

The Writing Center

Located in Sullivan 306, the Writing Center is a resource available free of charge to all members of the Worcester State University community. The Writing Center is staffed by graduate assistants and peer tutors who represent a variety of majors and interests. Sessions can be arranged on an appointment or drop-in basis, and the staff of the Writing Center can address basic and advanced writing needs. The Writing Center also hosts Writenet (www.worcester.edu/owl), an online writing center that offers instruction and support over the World Wide Web.

Multicultural Affairs

Alternatives for Individual Development (A.I.D.)

The Alternatives for Individual Development Program (A.I.D.) is an alternative admissions program at Worcester State University which provides educational assistance to students.

The primary focus is the first two years (Freshman and Sophomore years). However, the program requires a minimum participation of four academic semesters designed by the program staff and based on individual assessment. Other services will be provided to students throughout their undergraduate experience, including academic assistance, individualized or group tutoring, assistance with financial problems and cultural enrichment.

The program actively recruits students who show motivation and desire to succeed in higher education. Included in this category are ALANA, low-income, and first-generation students.

To be eligible for the summer program students must be incoming first-year students and meet minimal admissions requirements.

Upward Bound

The Upward Bound Program at Worcester State University is designed to encourage eligible high school students to persist in school through graduation and to seek a post-secondary education.

The Program actively recruits students who show motivation and desire to succeed and who are college bound. Included in these categories are: first-generation, ALANA, and low-income students.

Services include: college visits, workshops and seminars in college admissions and financial aid assistance, career counseling, individualized or group tutoring and cultural enrichment activities.

The Program has two main components—the Saturday component and the summer residential academy.

Honors Program

The mission of the Commonwealth Honors Program at Worcester State University is to give high-performing and motivated students opportunities to recognize and realize their academic potential and future goals. The program promotes scholarly excellence among both students and faculty through its curriculum and co-curricular programming. It builds strong community ties to sustain the intellectual and social development of its participants and to enhance the life of the University. The program is part of the Massachusetts Commonwealth Honors Program and a member of the National Collegiate Honors Council. Students are encouraged to contact the director for information regarding entrance into the program.

Program requirements include 21 credits in honors courses, which may also count toward major, minor, or LASC requirements, and attendance at co-curricular events. Students who complete an independent research project and present it in a public forum earn the additional **Commonwealth Honors Scholar** designation .

Dean's List (posted for matriculated undergraduate students only)

Full-time Students: Following the completion of each semester, the names of all students enrolled for a minimum of 12 graded credits excluding courses taken on a pass/fail basis and whose GPA for that semester is 3.5 or better will appear on the Dean's List. The distinction will be noted on the student's transcript.

Part-time Students: Following the completion of each semester, the same criteria for honors for full-time students will be applied to part-time day and evening students. Students must have an academic load of a minimum of six credit hours excluding courses taken on a pass/fail basis. The names of students whose GPA for that semester is 3.5 or better will appear on the Dean's List. The distinction will be noted on the student's transcript.

Any student receiving an incomplete grade in a semester is ineligible for academic honors in that semester.

Good Student Policy

To qualify for certification of Good Student Discount eligibility, Worcester State University students shall meet one or more of the following criteria:

- The student has a grade point average of "B" or higher for the most recent term.
- The student has a cumulative grade point average of "B" or higher.
- · The student is on the Dean's List.

Graduation Honors

According to the degree of academic excellence, graduates may be awarded the distinctions of cum laude, magna cum laude, or summa cum laude. Students graduating with honors must attain the following cumulative GPA based on all credits earned at Worcester State University (minimum 48 credit hours for transfer and second degree students).

 Cum Laude
 3.5–3.69

 Magna Cum Laude
 3.7–3.89

 Summa Cum Laude
 3.9–4.00

Academic Achievement Awards Ceremony

Conducted annually, the Academic Achievement Awards Ceremony gives special recognition to Worcester State University students who excel academically. Students so honored include those achieving the highest grade point average in individual disciplines, scholarship recipients, special academic award recipients, Dean's List and honor society inductees.

Registration and Course Information

Pre-registration for returning students is scheduled in the Fall and Spring of each academic year for advance course selection. The order of registration proceeds from seniors to first-year students. Class determination is made at the completion of the Fall semester and at the end of summer sessions. A student's registration is not considered official until all financial obligations are met.

Course Numbering: The 100-level offerings are introductory or survey courses that generally do not require prerequisites. The 200-level courses are intermediate and may require prerequisite courses. The 300-level courses are advanced and require prerequisite courses. The 400-level courses are generally for seniors and include seminars, independent study, and internships. Courses at the 900 level are open only to post-baccalaureate students.

Prerequisites represent an essential body of knowledge and skills necessary for students to succeed at an acceptable level in a course and/or are required to satisfy licensing and certification standards. Specific prerequisites are required for many courses and in certain professional studies leading to licensing and certification. Prerequisites may be waived by the instructor or department chair of the department offering the course.

Corequisites are courses which support the successful completion of certain other courses when taken concurrently. When a corequisite is listed for a course, the students are advised to register for both at the same time. In some cases, prerequisite/corequisite courses may fulfill LASC requirements.

Course Credit is counted in units called semester hours. The number of semester hours carried by a particular course is indicated in the course description. Twelve to 19 semester hours of credit per semester are considered a full-time schedule of study.

Course Overload: Special permission is required for students to register for more than 19 semester hours of credit. Forms are available at the Office of the Registrar and advisor/department and Dean's approval are required.

Course Repeat: Students in academic difficulty who wish to repeat a course must file a course repeat form with the Registrar. Only the higher of the two grades is computed in the cumulative GPA. Students will not receive credit for a course more than one time except for PE100 and MU102, 220, 225 and TH321 and may include departmental special topics courses. Both the old and new grade appear on the transcript. Course repeats must be taken at Worcester State University.

Adding or Dropping a Course: Students may add/drop courses in accordance with the deadline published in the academic calendar. It is the student's responsibility to return the completed form(s) to the Registrar's Office. After the deadline, students wishing to drop a course must follow the procedure for withdrawal.

Withdrawal From Courses: W. A student may withdraw from a course at any point up to one week after failure warnings have been issued. Choosing to withdraw is a serious matter which may affect a student's class standing, full-time status, financial aid, etc. A student considering such a step should seek advice from the instructor or the faculty advisor. To withdraw from a course, a student must obtain a Course Withdrawal Form from the Registrar's Office and follow the prescribed steps. Mere non-attendance at class does not constitute official withdrawal and may result in a failing grade.

In cases of academic dishonesty, the W grade may be reversed.

All "W" grades are permanently recorded on the student's transcript. A student who withdraws from all courses will be considered withdrawn from Worcester State University, and must file a formal intent to withdraw with the Academic Success Center.

Students who receive any form of financial aid or veterans educational benefits should consult with the respective office PRIOR to dropping or withdrawing from a course. Reducing hour credit load may adversely affect eligibility to receive financial aid or veterans educational benefits. In addition, most private insurance companies require that students be full-time (12 credits or more) to be eligible for coverage.

Quality of achievement is represented by the following letter grades with associated points per semester hour of credit.

```
Α
         4.0 - points per semester hour credit
         3.7
A-
B+
         3.3
         3.0
В
B-
         2.7
C+
         2.3
С
         2.0
C-
         1.7
D+
         1.3
D
         1.0
D-
         0.7
Ε
         0.0 - no credit, included in calculation of GPA
         a temporary grade, not computed in the GPA
NR
         a temporary grade, not computed in the GPA
Ρ
         pass/fail option; credit, not computed in the GPA
F
         pass/fail option; no credit, not computed in the GPA
W
         withdrawn: no credit, not computed in the GPA
ΑU
         Audit
```

Grade Point Average (GPA): At the end of each semester (and/or summer session), a semester GPA is calculated by dividing the total number of credits attempted (excluding grades of I, P, F, W) into the sum of the products of points and credits for **all courses taken**.

A Cumulative Grade Point Average reflecting the entire history of a student's achievement at Worcester State University is also computed. The Cumulative GPA is a major factor in determining class membership, academic standing, and eligibility for academic honors. Only grades earned at Worcester State University or through the Consortium Program are computed in the cumulative GPA.

Audit Procedure Policy: Students electing to audit may attend classes but will not earn grades or be permitted to submit assignments or take examinations. No academic credit is awarded, but the student receives the benefits of course lectures and discussions. Consent of the instructor is required to enroll in a class as an auditor.

Only students who are not matriculated undergraduates at Worcester State University are eligible to audit undergraduate courses. Also ineligible to audit courses are Consortium, CAPS, dual enrollment, and foreign exchange students.

The audit option must be declared at the time of pre-registration or registration. Students cannot switch to credit-bearing status or from credit-bearing to audit status after registration. Audited courses do not count toward load for any purposes (e.g., financial aid, veterans benefits, etc.) The audit will be permanently recorded on the student's transcript.

Pass/Fail: Students may elect up to two courses per semester on a pass/fail basis. Core writing courses and courses within major(s) and minor(s) disciplines may not be taken pass/fail, even when not applied to specific degree requirements. Students must notify the Registrar's Office at least four weeks prior to the last scheduled day of classes if they intend to take a course on a pass/fail basis. Similarly, students deciding to change from pass/fail status to standard grading must notify the Registrar's Office by the same deadline, four weeks before the final day of classes. Once a student decides to change from pass/fail status to standard grading, it is not reversible; the letter grade stands. No more than fifteen (15) hours may be taken on a pass/fail basis. No more than two courses in any given semester may be taken pass/fail.

Independent Study: Independent studies offer motivated students the opportunity to study a topic not covered in the established curriculum. Independent studies can cover specialized topics or focus on unique research. A student may undertake an independent study to explore individual interests and formulate decisions about future career opportunities.

A matriculated student seeking to take an independent study should contact an instructor and work with him or her to prepare a written contract outlining the course content, student learning outcomes, grading parameters, and suitable credit hours. In general, independent studies will be supervised by a full-time faculty member. Exceptions require permission from the department chair and the appropriate dean. The student is responsible for obtaining all necessary signatures (the professor, department chair, and appropriate dean) and submitting the application to the Registrar no later than the last day of add drop. One to three hours of credit may be granted for one semester of independent study. No more than twelve hours in independent study may be granted toward the baccalaureate degree.

Directed Study: A directed study is an alternative method of learning required course material which is appropriate only when special circumstances prevent a student from taking a course in the usual manner. Directed studies will be allowed only in rare instances and in a semester in which the course is not otherwise scheduled. Under the direction of a faculty member, the student must meet the same learning outcomes as required in a regularly scheduled course. Directed Studies should not be used for core classes. Directed study applications can be obtained from the Office of the Registrar. Only one course taken by a directed study may be applied toward fulfilling graduation requirements.

A matriculated student seeking to take directed study should contact an instructor and work with him or her to prepare a written contract detailing the course content, student learning outcomes, grading parameters, suitable credit hours, and how the goals of the course will be accomplished within the directed study format. In general, directed studies will be supervised by a full-time faculty member. Exceptions require permission from the department chair and the appropriate dean. The student is responsible for obtaining all necessary signatures (the professor, department chair, and appropriate dean) and submitting the application the Registrar no later than the last day of add drop. One to three hours of credit may be granted for a directed study.

Incomplete Grades: When circumstances (e.g.: illness) prevent a student from completing a course on time the student is responsible for requesting an incomplete. The professor may grant an incomplete provided the student had completed a substantial portion of the course requirements. The student must make arrangements with the professor to complete the course within six weeks of the beginning of the next semester. The academic calendar indicates the deadline for resolving incompletes from the previous term. If the requirements are not met within the appropriate period, the incomplete will automatically become an "E," and so recorded on the student's permanent record.

An extension of an incomplete for one semester may be granted if circumstances still prevent the student from completing the course. In such cases, the student is responsible for obtaining the approval of the professor who must notify the Registrar in writing of his/her approval prior to the end of the initial six (6) week period. With regard to the extension of an incomplete grade, the required course work must be completed by the student prior to the beginning of the final examination period of the semester immediately following the one in which the incomplete was originally issued. The instructor will then have five working days within which to submit a final grade to the Registrar.

Change of Grade: Once a grade has been posted to a student's transcript that grade may be changed if, and only if, an error has been made in the calculation or transcription of the original grade. Under no circumstances will a change in grade for a student be allowed because of the submission of additional work after the course has ended. No grade change may be made after the conclusion of the semester following the semester in which the grade was originally submitted.

Transcripts

Official transcripts of coursework taken at Worcester State University may be obtained by eligible students from the Office of the Registrar with the completion of a form available for that purpose, or by written request. Students may also download the transcript request form from the web site (www.worcester.edu/transcriptrequest), and forward the completed copy to the Registrar's Office. Requests must include name while attending, current name if different, Social Security number and/or student ID number, last date of attendance and whether or not the student was officially accepted into a program. Transcripts are \$5 per copy. Payment must accompany the request in the form of a check made payable to Worcester State University. Transcripts cannot be ordered by telephone or fax.

International Programs

International Students

Worcester State University is authorized to host both F-1 and J-1 international students, scholars, and professors. The Office serves the Worcester State University international community in a variety of ways, including pre-attendance advising on visa issues, on-campus orientation and comprehensive support services throughout the duration of students' academic programs at Worcester State University.

All international students must have a valid student visa to travel to the U.S. and are required to pursue a full course of study at all times. Under the policy of the US Department of Homeland Security, all international students must report to the Office of International Programs after their initial entry into the U.S. and at the start of each semester thereafter. Additional information on international applicants can be found on the Admissions page.

Education Abroad

Worcester State University strongly encourages students to participate in some form of study abroad experience during their time as an undergraduate. To participate, students must have a minimum GPA of 2.7 and sophomore standing. To facilitate such opportunities, Worcester State University offers an array of domestic and international exchange opportunities. Worcester State University students can earn academic credit on both short and long-term programs throughout the year. All major courses must be approved with the assistance of academic departments in advance of travel for credits to transfer back to Worcester State University. LASC requirements must be approved by the LASC coordinator. The grades earned for study abroad will be posted as letter grades which will not factor into the student's GPA. Interested students are strongly advised to communicate their intention to study abroad early in their academic career.

International Exchange Opportunities

Worcester State University has entered into multiple exchange agreements with institutions in a variety of locales including England, China, Thailand, South Korea, Portugal, Ireland and the Czech Republic. Courses are offered in English and students have the opportunity to learn the native language as well. Per the conditions of the exchange agreements, Worcester State University students pay Worcester State University tuition and fees to Worcester State University and accommodation fees to the host institution.

The National Student Exchange

The National Student Exchange (NSE) offers students the opportunity to participate in exchange opportunities with nearly 200 institutions in the U.S., Canada, and the U.S. territories enabling participating students to attend another NSE school at either the home or host school in-state tuition rate. Reciprocal tuition exchanges are available in 48 states including Alaska and Hawaii and in the three U.S. territories of Guam, Puerto Rico and the U.S. Virgin Islands. NSE offers students the opportunity to live and learn in a different academic and geographical setting for up to one academic year.

Study Abroad

Worcester State University is affiliated with a number of organizations which provide summer, semester, and academic year program options for students throughout the world. These programs are committed to developing international dimensions as an integral part of the academic curriculum and they strive for a high level of academic excellence. To qualify for participation, students must have a minimum class standing of a Sophomore. All courses must be approved by the appropriate academic departments and the LASC coordinator prior to participation in the program for credits to transfer back to Worcester State University.

Short-Term Programs

Worcester State University offers a variety of short-term, one to four weeks, programs each academic year. Popular destinations include: Costa Rica, Nicaragua, the U.K., Spain, and the Dominican Republic. These programs are offered over January Break, Spring Break, and during the summer semesters. These faculty-led credit-bearing overseas learning experiences are focused and affordable and are designed to provide greater accessibility to students and to cover a breadth of academic interests and geographical destinations. All students are eligible for participation at the discretion of the faculty leader.

Intensive English Language Institute (IELI)

The Intensive English Language Institute offers students the opportunity to attain English language fluency and U.S. cultural competencies to succeed in college or university studies. IELI offers both full-time and part-time programs providing top quality English as a Second Language (ESL) instruction to international students and working professionals. Courses are not for credit.

In the Intensive ESL Program, students study academic English up to 20 hours per week to rapidly improve their fluency and competency. Classes meet in the Fall and Spring for 14 weeks and in the summer for 5 or 10 week sessions. Core courses focus on reading, writing, listening, speaking, pronunciation, grammar and preparation for the iBT TOEFL examination. The full-time program meets requirements for an F-1 student visa.

ESL classes in the Community Program meet 4 hours per week. Students improve their English for work, further education, or general fluency.

Placement tests are required for all students to determine the best level for IELI courses.

Bridge to University Program

IELI offers a Bridge to University Program, a postsecondary program of study that combines ESL courses with WSU credit courses from Liberal Arts and Sciences (LASC) curriculum. Successful completion of this program will enable students to meet prerequisite requirements of full admission to a degree program.

Students are required to maintain full-time status (as defined by federal regulations) while engaging in a combination of remedial and non-remedial coursework preparing them for matriculation to WSU. The program is offered in the fall and spring semesters.

Standards of Progress

Matriculated students (students admitted to Worcester State University and pursuing a formal course of study leading to the bachelor's degree, second major, certificate, or professional certification) are expected to make satisfactory and steady progress toward completion of their programs.

Opportunities are available for student advisement, both within the departments and from the Academic Success Center. However, each student is solely responsible for selecting courses, which satisfy departmental requirements for a major, as well as the general requirements for graduation as described in this catalog. Students are responsible for familiarizing themselves with this information. Exemption from, or exception to, any published requirement is valid only when approved in writing by the Provost/Vice President for Academic Affairs or Associate Vice President for Academic Affairs and confirmed by the Registrar.

Attendance

All students are expected to attend and participate in all class meetings and laboratory sessions. In the event that illness or some other emergency prevents a student from attending class, the student should contact the instructor directly. Since attendance requirements differ according to the specific academic goals of each course, students should carefully check the attendance policy on the course syllabus. If there is anticipated prolonged absence, the Associate Vice President for Academic Affairs (Administration Building, Room 361) should be contacted.

Worcester State University abides by Chapter 375 of the Commonwealth of Massachusetts, An Act Excusing the Absence of Students for Their Religious Beliefs. Section 2B of this law states: "Any student in an educational or vocational training institution other than a religious or denominational educational or vocational training institution, who is unable, because of

his religious beliefs, to attend classes or to participate in any examination, study, or work requirement on a particular day shall be excused from any such examination, study or work requirement, and shall be provided with an opportunity to make up such examination, study, or work requirement which he may have missed because of such absence on any particular day; provided, however, that such makeup examination or work shall not create an unreasonable burden upon such school. No fees of any kind shall be charged by the institution for making available to the said student such opportunity. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section."

Academic Standing: For degree-seeking students, class membership is based upon the number of credit hours completed. Class membership determines priority for registration and participation in class events.

Class	Credit Hours Completed
First-Year	0-29
Sophomore	30-59
Junior	60-89
Senior	90-120

Good Standing: To maintain good standing at Worcester State University, matriculated students must meet the minimum standards specified below.

College Credits*	Cumulative GPA
1-29	1.50
30-59	1.75
60 and over	2.00

^{*}College credits include all credits **attempted** at Worcester State University **plus all credits accepted in transfer.** Students are reminded that only grades earned at Worcester State University or through the Consortium Program are used in determining their GPA.

Warning Status: Students will not be placed on probation status until they have attempted 24 semester hours; however, students may be placed on a **warning status** if they fail to maintain the minimum standard after attempting 12 semester hours. Students on warning status may enroll in no more than 16 semester hours. In consultation with an academic advisor, each such student will develop an academic plan/registration contract that will include such conditions as repeating failed courses, regularly scheduled advising appointments, attending workshops offered through the Academic Success Center, and recommended use of the writing center, math lab, and tutoring services.

Probation and Dismissal: Students who fail to meet and/or maintain the minimum cumulative GPA required for good standing are placed on academic probation and are subject to the following restrictions: 1) they may not participate in intercollegiate athletics; and 2) they may not register for more than 12 semester hours of credit per semester; and 3) they may not serve on any standing and ad hoc governance committees of Worcester State University.

Failure to improve the GPA and regain good standing after two regular academic semesters (Fall and Spring) will result in academic dismissal and separation from Worcester State University. Students dismissed from Worcester State University for academic deficiency may not register for or attend classes at Worcester State University until 12 months have elapsed. Readmitted students must attain a minimum GPA of 2.0 for each semester following their return. Failure to maintain a 2.0 semester GPA will result in a second separation from Worcester State University not subject to appeal. See next section regarding withdrawal/leave of absence.

Appeal of Dismissal: Students may appeal for reinstatement to continue for a third semester on probation. Appeals must be made in writing to the Chair of the Academic Progress Review Board and submitted to the Registrar within five (5) days of notification. The Academic Progress Review Board will review the written appeals. The decision of the Review Board is final.

Withdrawal from Worcester State University/Leave of Absence

Matriculated students who fail to take a course during a calendar year will be administratively withdrawn from Worcester State University. Students who wish to permanently withdraw from Worcester State University or take a temporary leave of absence must complete appropriate forms in the Academic Success Center. If the withdrawal or leave of absence is filed prior to the last day to withdraw from courses for the term, "W" will be recorded on the student's record. Students who file for leave of absence or withdrawal after the last day to withdraw from courses for the term may petition if they feel circumstances warrant the recording of "W" for all courses enrolled for that term. Normally, a leave of absence is for one semester; however, a student may have up to one year to return to Worcester State University. Failure to return at the specified time will result in an administrative withdrawal from Worcester State University.

Students who receive any form of financial aid or veterans educational benefits should consult with the respective office PRIOR to dropping or withdrawing from a course. Reducing hour credit load may adversely affect eligibility to receive financial aid, veterans educational benefits. In addition, most private insurance companies require that students be full-time (12 credits or more) to be eligible for coverage.

Reinstatement after Withdrawal/Non-continuous Attendance/Dismissal

Students reactivate their undergraduate, matriculation status through the Registrar's Office. It is the student's responsibility to supply and update the following documents if they are not on file:

- final high school transcript
- · completed and notarized proof of residency form
- official transcript of all courses completed at each post-secondary institution attended (excluding Worcester State University).

When the file is complete, the student will meet with an advisor and develop a plan for academic persistence and success. If applicable, an updated evaluation of transfer credits will be done at this time. In the case of Nursing, Occupational Studies, and Education majors, an interview with the academic department will be necessary to determine reinstatement possibility in these majors.

Students readmitted after dismissal must attain a minimum GPA of 2.0 for each semester following their return. Failure to maintain a 2.0 semester GPA will result in a second separation from Worcester State University not subject to appeal.

All reinstated students follow the major requirements from the catalog in effect at the time of their reactivation. For students who matriculated prior to Fall of 2009 as first-year students, or prior to 2012 as transfer students, courses will be allocated to LASC categories according to the LASC transfer policies (see LASC section under "Academic Policies and Procedures"). For students who last matriculated as a first-year student after the Fall of 2009, or as a transfer after the Fall of 2012, all courses completed at WSU will be allocated to LASC categories according to the catalog in effect when he/she is reinstated. Through appropriate advising, a plan for success outlining the maximum credits applicable will be developed prior to the semester of re-matriculation.

Academic Reprieve Policy

The Academic Reprieve Policy applies to former Worcester State University students returning to complete baccalaureate degree programs a minimum of three academic years after their last completed semester at Worcester State University. This policy is designed to facilitate program completion for students whose previous academic records were so poor as to put them in jeopardy of academic probation or dismissal immediately upon readmission. A student may exercise this academic reprieve option only once.

A student meeting criteria for eligibility must file a petition form, available in the Office of the Registrar, requesting reprieve of eligible course work at Worcester State University, either at the time of readmission or before the close of the first semester of re-enrollment. A maximum of 60 credits may be applied toward graduation from the student's previous enrollment at Worcester State University. In order to be applied, those courses must have received a passing grade. Credit for courses in the student's major is contingent upon approval by the Department Chair. None of the grades associated with courses given credit under the academic reprieve policy will be calculated in the student's GPA; however, all course work will be recorded on the transcript. A student selecting the reprieve option will be required to meet degree requirements of the catalog in effect on the date of the student's application for readmission. Those electing the reprieve option may qualify for honors at graduation upon the completion of a minimum of 60 graded credits. All approved academic reprieve students should check with the Financial Aid Office to see whether their reprieve will be recognized for financial aid purposes.

Undergraduate Appeal Procedure

Prior to invoking the use of the undergraduate appeal procedure, individuals should exhaust all informal means available to resolve questions concerning specific issues related to their courses.

The appeal procedure may not be used to challenge a grade which results from a faculty member exercising usual and customary professional judgment in the evaluation of student work.

Step 1

When an issue arises in which the student believes he/she has been treated unfairly, the student shall request in writing a meeting with the instructor. In the case of an end-of-semester grade, the student shall request such a meeting no later than ten working days after the beginning of the next semester. The instructor shall arrange to meet with the student within ten working days of the receipt of the request.

Step 2

If the matter is not resolved to the satisfaction of the student at Step 1, then, within ten working days of the meeting in Step 1, the student shall file a written request to review the matter with the appropriate Department Chair.

Step 3

If, within ten working days of the receipt of the request in Step 2, the Department Chair is unable to resolve the matter to the satisfaction of all parties, then either party may, within ten working days, file a written request to review the matter with the Dean of the respective School.

Step 4

If, within ten working days of the receipt of the request in Step 3, the Dean is unable to resolve the matter to the satisfaction of all parties, then either party may, within ten working days, file a written request to review the matter with the Vice President for Academic Affairs. In the case of continuing education courses or graduate courses, the appeal at Step 3 goes to the Associate Vice President of Continuing Education.

Step 5

Within ten working days of the receipt of the request in Step 4, the Provost/Vice President for Academic Affairs shall inform the student, faculty member, Department Chair, Dean of the results of his/her review.

The appeal process ends at this point.

Enhanced Learning Opportunities

Accelerated Pharmacy Program with Massachusetts College of Pharmacy and Health Science:

Worcester State and Massachusetts College of Pharmacy and Health Science (MCPHS)have a formal affiliation agreement that admits students into an articulated program that begins with three years at Worcester State in one of four science tracks: Biology, Biotechnology or Chemistry, and concludes with the three-year accelerated Doctor of Pharmacy program on the College's Worcester or Manchester (NH) campus. After successfully completing the first-year of required coursework in the PharmD program at MCPHS, students will earn a Bachelor of Science degree from Worcester State. The first three years at Worcester State offer a blend of liberal arts and sciences that meet both the MCPHS general education curriculum requirements and the specific science track requirements at Worcester State. Massachusetts College of Pharmacy and Health Science provides the coursework needed for the student to earn the Bachelor of Science degree from Worcester State at the end of the first-year of professional study, as well as the professional education required to earn the Doctor of Pharmacy degree at the end of three years at MCPHS.

MCPHS shall accept up to ten (10) qualified WORCESTER STATE students each year into the first-year of the Pharmacy Program. If more than 10 students meet the established requirements and wish to transfer under the terms of this Agreement, the 10 students determined by the MCPHS Worcester/Manchester Pharmacy Admissions Committees to be the best qualified will be assured transfer admission, with the remaining students accepted on a space available basis.

Students who qualify (at the end of three years at Worcester State) for the Accelerated Pharmacy Program with MCPHS must:

- have at least a 3.5 cumulative grade point average (on a scale of 4.0) if they entered Worcester State after Fall 2008
- have at least a 3.2 cumulative grade point average (on a scale of 4.0) if they entered Worcester State in Fall 2008
- be full-time students at Worcester State for the three pre-pharmacy years and follow one of the approved curricula
- no grades below C (not C-)
- no course repeats
- · all courses completed at Worcester State
- TOEFL score of at least 213 if English is a second language.
- ****Students taking a reduced load for two or more semesters will be in violation of the terms of the Agreement and may lose their right to enroll in the PharmD program.
- ****Students who transfer into Worcester State from another college are not eligible for this program but can apply to MCPHS via the traditional application process.

Students applying to the MCPHS Accelerated Pharmacy Program must:

- Declare by November 1 of their third year at Worcester State their intent to transfer to MCPHS as a first-year Pharmacy Program student the subsequent Fall term.
- Complete an application to MCPHS via the Pharm CAS System by November 1.
- Notify both the Worcester State pre-pharmacy advisor and the MCPHS Office of Admission on the Worcester campus by November 1 of their third year at Worcester State. Students must indicate their first and second choice of campus (Worcester or Manchester).
- Send the completed application to the MCPHS Office of Admission on the Worcester campus by February 1 of their third year at Worcester State.
- Complete a successful pre-admission interview, conducted by MCPHS at the campus to which the student intends to transfer.

American Antiquarian Society Seminar: Each year the American Antiquarian Society and five Worcester Colleges—Assumption College, Clark University, College of the Holy Cross, Worcester Polytechnic Institute and Worcester State—sponsor a research seminar at the Society library. The seminar is conducted by a scholar familiar with the Society's extensive early American History collection, and the seminar topic is related to his or her field of research. Normally two students are chosen from each of the five colleges to participate. The seminar topic and research methods combine several disciplines, and students from a wide variety of majors have participated in this unusual undergraduate opportunity. Further information is available from the Department of History and Political Science.

American Chemical Society: Students may challenge Chemistry for the Allied Health Professions by contacting the Chemistry Department, New York Board of Regents. In some cases, credit can be awarded for these examinations.

Higher Education Consortium of Central Massachusetts (HECCMA): Twelve Central Massachusetts colleges, comprise the HECCMA. In addition to cultural activities, interdisciplinary programs, and other opportunities, the Consortium provides a cross-registration service whereby full-time day students of member colleges may register at no additional cost for one course per semester at another campus.

Members of the Consortium, in addition to Worcester State, are Anna Maria College, Assumption College, Becker College, Clark University, College of the Holy Cross, Mass College of Pharmacy and Health Science University, Nichols College, Quinsigamond Community College, Tufts University's Cummings School of Veterinary Medicine, University of Massachusetts Medical School, and Worcester Polytechnic Institute.

Cross registration opportunities (at no additional cost) exist only for matriculated under graduate students taking day courses at one of the member Colleges during the Fall and Spring semesters. Students must be in good academic standing to take advantage of the one course per semester cross-registration option. Student eligibility and course applicability is determined by the Registrar's Office. Further information is posted on the Consortium website — www.heccma.org.

College Academic Program Sharing (CAPS): A student enrolled at any of the nine Massachusetts State Universities may enroll for up to 30 credits at any other state university without going through formal registration procedures. Credits are automatically transferred to the student's home institution, and the student pays no additional tuition or fees. To take part in the program, degree-seeking students must have attained sophomore status and be in good academic standing at Worcester State. For further information consult the Registrar.

Department Challenge: When appropriate and with the sanction of the faculty advisor, students may request and complete a department-developed examination to translate competencies into credit. A limited number of departments offer this as an option, so

consult the appropriate department chair. However, in most cases it is recommended that students explore the CLEP option.

Internships and Professional Experiences: Matriculated students in good academic standing are eligible for internship placement if they meet departmental requirements for such placement. No more than 12 academic credits may be applied toward graduation. An internship is a form of experiential learning that permits a Worcester State matriculated student to convert theory into action. An internship may be undertaken with or without the expectation of academic credit. If credit is to be granted, however, the internship must be monitored and evaluated by the appropriate Worcester State department and a grade awarded at its completion. The internship can be constructed according to any of a number of models including professional apprenticeships, work experience, field research, career exploration, socio-political action and service learning. Because students must be actively involved in the development of an internship placement—by developing a resume, preparing necessary correspondence, or being interviewed—they should contact the faculty sponsor in the semester prior to the proposed internship. The internship contract sets forth the responsibilities of each party so that each understands his or her specific role in the educational field experience. Each program is designed to accommodate and articulate the personal goals of the student, the academic goals of the department, and the needs of the participating off-campus organization. Information about available internships is regularly relayed to, and publicized in, appropriate academic departments. The following conditions apply to all internships:

- No more than 12 units of internship credit may count toward a degree.
- Students undertaking internships must be in good academic standing.
- Only juniors and seniors may undertake internships.
- A copy of the student's internship contract with the sponsoring department must be filed with the Registrar's Office.
- Students are responsible for providing their own transportation for off-campus learning experiences.

New England Regional Student Program: Worcester State participates in a regional cooperative program administered by the New England Department of Higher Education. The New England Regional Student Program offers qualified residents the benefits of instate tuition plus 50% in certain programs at any New England state university, college, two-year college, or technical institute. The purpose of the program is to expand higher educational opportunities for New England residents by making available, on an equal basis, those programs not commonly offered at every institution. Information about the program can be obtained from the Admissions Office, from any guidance counselor, or from the New England Department of Higher Education, 45 Temple Place, Boston, MA 02111.

Next Step Program: Next Step is a program for non-traditional students coming back to college after delaying education to pursue a career or other life goals. The program offers a way for students to maximize their resources and help them advance in their career with an education that validates experiential learning, increases earning potential, and enhances personal effectiveness. The Next Step program provides academic counsel and offers assistance in navigating systems such as financial aid and registration. The centerboard of the program is the portfolio course. Students are coached by professors in a two course sequence to write about learning that they have acquired through their work and volunteer experience. Both writing courses are approved in the LASC curriculum, so they will apply towards graduation requirements. Spending two semesters building a portfolio can help students to realize all they have learned from their experiences. After completion of the courses, students will submit a portfolio that is evaluated for course credit (students pay a portfolio fee for the prior learning credits, but the fees are significantly less than standard tuition and fees). Students may demonstrate mastery of introductory courses in their major,

freeing them to move onto higher level classes, or the courses can serve as electives in the major. Students may receive up to 21 prior learning credits, plus 6 credits for completing the two-semester course. This can quickly move nontraditional students forward in degree completion. There are no additional application processes to be in the program. For more information, the Next Step Coordinator can be reached at (508) 929-8416.

Off-Campus Courses: Matriculated students may enroll in off-campus courses at regionally accredited institutions in academic disciplines that are compatible with the Worcester State curriculum. To assure applicability and transferability, matriculated students must have approval in writing from their faculty advisor and the Registrar before enrolling in courses at other accredited institutions. Copies of course descriptions from college catalogs or other publications for each course must be attached. Forms are available at the Registrar's Office (Administration Building, Room 107).

Pre-Law Program: Programs of preparation for law school are available through the Department of History and Political Science and the Department of Philosophy.

Pre-Medical, Pre-Dental, Pre-Veterinary and Pre-Pharmacy Advisory Program: Worcester State offers an advisory program for students interested in preparing for medical, dental, veterinary or pharmacy studies. Students interested in medicine or dentistry may pursue study in any of the academic majors of Worcester State. It is the obligation of the students to check with the professional school(s) to which they intend to apply for exact requirements. Nearly all medical and dental schools require one year each of the following laboratory courses: General Chemistry, Organic Chemistry, Biology and Physics. In addition, many schools require two years of a modern foreign language, one year of English (including composition), and Mathematics through Calculus. Regardless of major, students are advised to select CH 120 and CH 121, General Chemistry I and II, and either BI 140 and BI 141, or PY 221 and PY 222, or PY 241 and PY 242 in their first-year.

Students interested in medicine, dentistry, veterinary medicine, optometry, podiatry or osteopathy should consult both the major advisor and the Chair of the Pre-Medical and Pre-Dental Advisory Committee as soon as possible following matriculation. Students are advised to complete their science requirements before the end of their junior year and to take the national pre-professional exam (e.g., MCAT, DAT) during the Spring semester of their junior year. During the junior year, students must arrange an interview with the Pre-Medical and Pre-Dental Advisory Committee. Additional information is available at www.worcester.edu/PreMed.

Summer Programs: Worcester State offers a variety of undergraduate and graduate courses during the summer months. Two six-week sessions, the first beginning in late May and the second beginning in early July, provide intensive enrichment opportunities for students working toward completion of degree requirements or upgrading and enhancing professional skills. The summer schedule is usually available in March. Course listing is on website (www.worcester.edu/summer).

The Washington Center for Internship and Academic Seminars

Worcester State participates in this internship program that combines experience in public, private, or non-profit sectors in Washington, D.C. with academic learning. The internship provides a unique opportunity to explore career paths while sampling the intellectual and cultural diversity of the nation's capital. This internship must be taken for credit so it is imperative that a student meets with the faculty sponsor within his/her academic major early in the semester prior to the proposed participation.

A student's financial aid may be applied toward program costs. In addition, significant scholarship monies are possible through The Washington Center and the Massachusetts Department of Higher Education for students with a minimum GPA of 3.0 and who are residents of Massachusetts. Tuition and fees are also waived for the semester for students who meet both the residency and GPA criteria. It should be noted that scholarship/financial aid monies are awarded based on the most recent policies put forth by OSFA and the Massachusetts Department of Higher Education and are subject to change.

Each semester The Washington Center Regional Recruiter visits the campus to speak with students about the internship program. These visits are coordinated through Career Services. Interested students should contact the Career Services Office.

Reserve Officer Training Corps (ROTC)

Air Force

Worcester State students have the opportunity to participate in Air Force ROTC ("AFROTC") through the AFROTC Detachment at Worcester Polytechnic Institute. The AFROTC program is voluntary and open to all students who seek the challenge of being an officer in the United States Air Force upon graduation from college.

Four-Year Program: This traditional program is the more popular choice. The first two years are known as the General Military Course (GMC). Classes meet one hour a week and are required for freshmen and sophomores. There is no military obligation for the first two years of AFROTC unless a student has an AFROTC scholarship. Students who successfully complete the GMC compete nationwide for entry into the Professional Officers Course (POC), which meets three hours a week and is required for juniors and seniors. Officer candidates in the POC (and on scholarship) receive a nontaxable subsistence allowance of up to \$500 a month. In addition, qualified officer candidates attend the AFROTC field training program for four weeks between their sophomore and junior years.

Three-Year Program: Students may also choose an accelerated three-year option, which shortens the standard four-year program by condensing the GMC from two years to one. This option gives students the flexibility to begin AFROTC in their sophomore year (or junior year with one year of graduate study).

To participate in AFROTC students must be United States citizens (or naturalized by the end of their sophomore year), of good moral character, and in sound physical condition. Students interested in AFROTC should write to the Professor of Aerospace Studies, AFROTC Detachment 340, Worcester Polytechnic Institute, 37 Institute Road, Worcester, MA 01609-2280, call 508-831-5747 or email afrotc@wpi.edu for further details and the latest information on scholarship opportunities.

Army

The Army Reserve Officers' Training Corps (ROTC), is offered by Worcester Polytechnic Institute and is available to all Worcester State students. American citizens who are physically qualified and who satisfactorily complete the entire four-year program will be commissioned in the United States Army. Graduates serve as second lieutenants in the Active Army or the reserve components. Delayed entry on active service for the purpose of graduate school is available. Military science is designed to complement other instruction offered by Worcester State. Emphasis throughout is on the development of individual leadership abilities and preparation of the student for future important leadership roles in the Army. There are two variations of ROTC available to the student who desires to participate: a four-year program, in which students participate in required military science courses and activities for four academic years. Attendance at a six-week advanced training camp is required between the third and fourth year.

The two-year ROTC program is intended for students in their second year of college who want to enroll in ROTC in their junior year. It begins with a six-week basic summer training camp, with pay, between the sophomore and junior years. Upon successful completion of basic camp, the student participates in the third year of ROTC and attends the advanced camp during the next summer. As an alternative, an enlisted member of the Army National Guard or Army Reserve who has completed basic training can qualify for the two-year ROTC Simultaneous Membership Program (SMP).

All students enrolled in the last two years of the program receive a tax-free cash stipend of \$100 each month in school. Two- and three-year Army ROTC scholarships are available for students who wish to apply. The scholarship is based on the achievements of the applicants, not the financial status of their families. The ROTC scholarship covers tuition and most required fees, paid directly to the college. It also pays directly to the student \$450 per year for books and a \$100 monthly cash stipend, each month in school. Both are tax free. Members of Army Reserve and National Guard may participate in the ROTC/SMP as college juniors, receiving a reserve officer commission upon successful completion of the military science requirements. SMP cadets remain members of their unit and earn E-5 drill pay in addition to the tax-free stipend of \$100 per month through ROTC. Additionally, Massachusetts National Guard ROTC/SMP members receive free tuition at state schools.

Students interested in Army ROTC should contact the Professor of Military Science, Military Science Department, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609, or call 508-831-5268. Offices are located in Room 28A, Harrington Auditorium.

Navy

Programs leading to a commission as an officer in the United States Navy or Marine Corps are available to all qualified Worcester State male and female students through cross-enrollment in the Naval Reserve Officers Training Corps Unit at the College of the Holy Cross. Students can participate as Scholarship or College Program (non-scholarship) students in either a four-year or two-year Naval ROTC ("NROTC")program. The basic qualifications for enrollment in the NROTC Program are United States citizenship, good moral character, and sound physical condition.

High school students, in the Fall of their senior year, can apply through the national competition for three- and four-year NROTC Scholarships. If selected, they receive full tuition, payment of most fees, and a \$150 per month tax-free stipend. Along with their college degree requirements, NROTC students are required to complete one Naval Science course each semester and also participate in one two-hour weekly unit drill period. Additionally, scholarship NROTC students participate in summer training cruises after their first-year, sophomore year, and junior year. The summer cruises are four to six weeks in length, with pay and allowances, and afford an opportunity for practical experience and travel. Upon successful completion of the NROTC program, graduates are commissioned ensigns in the Navy or second lieutenants in the Marine Corps and are required to serve at least four years on active duty.

First-year and sophomore students can apply for the two-year NROTC Scholarship Program during their first two years in college. If selected, they receive full tuition, payment of most fees, and a \$150 per month tax-free stipend. They attend a six-week indoctrination course during the summer preceding their junior year at the Naval Science Institute at Newport, Rhode Island. Along with their remaining college degree requirements, they are required to complete one Naval Science course each semester and also participate in one two-hour weekly unit drill period during their junior and senior years. They are required to serve at least four years on active duty after commissioning.

Students can also participate as College Program (non-scholarship) students in either the four-year or two-year NROTC Program. Students apply directly to the Professor of Naval Science at the College of the Holy Cross for enrollment. The program provides military uniforms and during the junior and senior years a subsistence allowance of \$150 per month. College Program students are required to complete one Naval Science course each semester and also participate in one two-hour weekly unit drill period. They also participate in one summer training cruise preceding their senior year. Once enrolled in the NROTC Program, College Program students are eligible to apply for scholarships based on their academic record and performance in the NROTC Unit. Scholarships of one, two, and three years are available.

Upon successful completion of the program, College Program students are commissioned in the Naval or Marine Corps Reserve and are required to serve at least three years on active duty after commissioning. For additional information about the NROTC Program, contact the Professor of Naval Science, Naval ROTC Unit, College of the Holy Cross, Worcester, MA 01610-2389; 508-793-2434 or nrotc@holycross.edu.

Services for Students

Student Services is a collaboration of varied offices designed to enhance each student's experience at Worcester State University. WSU offers career counseling, provides assistance for students with physical and/or learning disabilities, and presents programs for students who may need additional academic preparation for college success.

Athletics and Recreation

The Athletics and Wellness office is an integral component of Worcester State University's efforts to provide a high-quality, affordable education and supportive environment that promotes the total development of the student. A brand new, state-of-the-art, 100,000 square foot Wellness and Recreation Center will be opening in the fall of 2016. This building will provide our students robust intramural and recreational opportunities, while our student-athletes will compete in some of the nicest indoor facilities on the east coast. Employment opportunities for students may also be available in the Wellness and Recreation Center.

The Athletics and Wellness staff provides students with the opportunities to grow and learn through intercollegiate varsity athletics, intramurals, and wellness programs. Participation in these activities fosters physical, mental, leadership, and life skills development, while enhancing self-discipline and sportmanship qualities.

Worcester State University is a Division III member of the National Collegiate Athletic Association (NCAA), the Massachusetts State Collegiate Athletic Conference (MASCAC), the Eastern College Athletic Conference (ECAC), and a single sport affiliate of the Little East Conference and the Great Northeast Athletic Conference. The University sponsors the varsity sports of baseball, men's and women's basketball, men's and women's cross country, field hockey, football, men's golf, men's ice hockey, men's and women's soccer, softball, women's tennis, men's and women's indoor and outdoor track and field, women's volleyball, women's lacrosse and a dance team.

For those students interested in competing on a less formal level, Worcester offers an intramural sports program in such sports as football, basketball, street hockey, softball, soccer and volleyball. Any student who wishes to participate in intramural sports, regardless of ability or past experience is urged to do so.

Other wellness opportunities such as use of the aerobics center, weight room, aerobics and yoga classes, etc. are also available to the students at Worcester State University.

In all of its programs, the Athletics and Wellness office is cognizant of its responsibilities as an educational support component at Worcester State University.

Bookstore

All required course materials for classes are available at the Worcester State University Bookstore located in the Student Center. This full-service bookstore offers new and used textbooks, as well as textbook rental. To make the book selection process for classes easier, please bring a class schedule. The Bookstore also stocks school supplies, specialty books and a wide variety of gifts and clothing imprinted with the Worcester State University logo.

Used Textbooks

The Bookstore stocks many used copies of textbooks, but the supply is limited and they sell quickly. Students should shop early for the best selection of used books.

Rent-A-Text

Students have the option to use Rent-A-Text through the University bookstore saving on average half the price of a new book. Students need to complete the short rental agreement online or at the register in the store. Students must be 18 years of age and provide a valid ID and a credit card as collateral. With Rent-A-Text, students can highlight and write in the book. Normal wear and tear is anticipated. Students can pick up rental textbooks in store or order online and have them shipped to their home.

Textbook Rental Return Policy

Any student who uses the University Bookstore Book Rental Program must abide by the contact he/she signs with the bookstore. All rented textbooks are due back by the rental due date. Students who fail to return books or pay the balance due will have their accounts turned over to a collection agency. In addition, the student will not be eligible to participate in the Textbook Rental Program until he/she settles his/her debt.

Online Purchasing

Textbooks and many general merchandise items are available on the bookstore website at www.WSU.bkstr.com. Students can purchase or rent textbooks by clicking on the textbook tab, picking the proper term and selecting the course and section numbers. Online orders can be picked up at the bookstore or they can be shipped home.

Return Policy

Textbooks are returnable for one week after the first day of the semester, with receipt, provided they are unmarked and are in the purchased condition with all materials intact. General merchandise is returnable at any time with receipt.

Ways to Pay

The bookstore accepts cash, personal checks, MasterCard, Visa, American Express, and Discover, as well as the OneCard. The bookstore also has gift cards available for sale both in store and online

Book Buy Back

The bookstore will purchase books back at any time, no matter where they were originally purchased, provided there is national demand for the book, as determined by the bookstore's buying guide. The bookstore purchases books back for resale from Worcester State University students at half the new purchase price provided there is a current order and need for the book in the upcoming semester. The best time for students to sell books back is during finals when they are finished with them and the bookstore has the most-up-to-date information on the needs of the upcoming semester.

See bookstore website for hours. Bookstore Online: www.WSU.bkstr.com

Campus Ministry

Campus Ministry at Worcester State University seeks to enable students, faculty, and staff to grow spiritually in their faith journey as they work and study in the Worcester State University setting. Through interfaith programs, suppers, speakers, counseling and fellowship opportunities, the Campus Ministry seeks to bring a religious dimension into the everyday life and conversation of the Worcester State University community. The Campus Ministry House is located near Dowden Hall and is staffed by Catholic and Protestant chaplains and available clergy from various religious traditions.

Career Services

Career Services provides students with the opportunity to obtain information regarding career fields and occupations, finding out about internship opportunities, conducting self-assessment, linking career planning to academic planning, and making a successful transition from college to career or to further schooling. Career Services has a wide variety of services and resources available. Please visit the website at www.worcester.edu/career-services, or visit the Career Services office in person. Appointments with a Career Counselor are available year round to currently matriculated students. Please call us with questions or to make an appointment at 508-929-8072.

Counseling Services

The Counseling Center is designed to assist students in coping with personal issues that interfere with their academic and personal development and sense of well-being. Confidential counseling is available to all currently enrolled undergraduate matriculated students. The Counseling Center offers a variety of services to include individual counseling, consultation, outreach, and sexual assault prevention and response. There is no charge for services at the Counseling Center. Walk-in appointments are available based on counselor availability, however, scheduled individual appointments are preferred. To schedule an appointment call 508-929-8072, visit in person, or email at counseling_wsu@worcester.edu. The Counseling Center is open Monday through Friday from 8:00 a.m. to 5:00 p.m. Evening counseling sessions are available by appointment.

Student Accessibility Services

Student Accessibility Services (SAS) collaborates with and empowers students who have disabilities in order to coordinate support services and programs that enable equal access to an education and university life. The SAS strives to assist students with disabilities in advocating for themselves, receiving reasonable accommodations, and utilizing campuswide resources in order to fulfil their postsecondary education goals. SAS provides a welcoming, supportive and engaging setting for students, and promotes disability as an essential aspect of diversity on campus.

Accommodations and services are individually determined through an intake appointment. Please see our website: worcester.edu/sas for documentation guidelines. For further information, contact us: Room 131, Shaughnessy Admistration Building, Room 131], telephone: 508-929-8733, email: sas@worcester.edu.

Health Services

The Health Services Office is located in Sheehan Hall. During the academic year a full-time nurse practitioner, two part-time practitioners, and a part-time physician staff the office. Office hours are available on the web at www.worcester.edu/HealthServices or by calling 508-929-8875. When the Health Services is closed, emergencies are referred to Worcester State University Police.

Services include acute and routine medical care, health screenings, and specialty referral. Treatment is completely confidential. Students' health history forms remain on file in this office, and health insurance brochures are available.

Health Forms and Immunization

Each full-time undergraduate and graduate student, and all full and part-time students in health science programs involving patient contact (Nursing, Occupational Studies, and Communication Sciences and Disorders) must present evidence of immunization in order to register for courses. Massachusetts law specifies the following immunizations: 1) two doses of measles, mumps and rubella vaccine given at least one month apart beginning at or after 12 months of age; 2) one dose of tetanus/diphtheria/pertussis (Tdap) is required, if it has been 5 years or more since the last dose of tetanus/diphtheria (Td); 3) three doses of Hepatitis B vaccine; 4) All newly enrolled full-time resident students must be immunized with the Meningococcal vaccine within the last 5 years or the student/parent/legal guardian may sign the Meningococcal Information and Waiver Form developed by the Massachusetts Department of Public Health; and 5) a history of varicella (chicken Pox) disease verified by a health care provider, or two doses of Varicella vaccine given at least 1 month apart beginning at or after 12 months of age. All international students must have proof of a negative mantoux test performed in the USA. In the case of positive test results, evidence of a negative chest x-ray is required. Mantoux testing (PPD) is also available at Student Health Services for a minimal fee. A copy of an immunization record from a school in the Commonwealth indicating receipt of the required immunizations may be presented; or in the case of measles, mumps, rubella, Hepatitis B, or varicella, laboratory evidence of immunity. The law provides for medical and/or religious exemptions. Provision is also made to allow students to register on condition that the required immunizations are obtained within thirty days of registration.

Students must submit the Worcester State University Report of Medical History form, completed by a physician, in order to register for courses. All resident students must have a complete Worcester State University Health Form in order to move into the residence halls.

Health Insurance

The Commonwealth of Massachusetts requires that students must be covered by health insurance under their own policy or purchase the Worcester State University health insurance plan. Health insurance is required for undergraduate students if they register for nine (9) or more semester hours of credit. Coverage for graduate students is required if they register for seven (7) or more semester hours of credit.

At the time of Fall and Spring registration, all students will be enrolled in and charged for the Worcester State University Student Health Insurance Program. Students who do not wish to participate in Worcester State University's plan must return the completed waiver request form **that is enclosed with their bill.** They may also waive the insurance online at www.universityhealthplans.com. Both the completed waiver form and proof of insurance coverage should be returned with payment of their bill to the Bursar's Office. Students who enroll only in summer session courses are not required to participate.

Dining Services

Worcester State University Dining Services is managed by Chartwells. Chartwells is proud to offer a "Pulse on Dining" at Worcester State University. It is an unforgettable dining experience; passion and practicality; ingenuity and sensibility. Great food and exciting environments combined with pride of service transform the ordinary into the unexpected.

Locations and Hours of Operation

There are eight dining locations on campus Sheehan Hall POD, The Food Court, Woo Cafe, Lancer's Loft, LRC Starbucks Café, C-Store, Java Junction and a smoothie/juice concept in the brand new Wellness Center. To find out about hours of operations, menus, prices, specials, and upcoming events go to www.dineoncampus.com/wsu.

Resident students can choose from weekly plans of 19 meals, 14 meals, 10 meals, 7 meals and a 65 block plan for students with 90 credits or more. Chartwells also has a mandatory commuter dining dollar plan for all first-year students, sophomore, junior and first-time transfer commuter students. All meal plans only last a semester. To find out more information about meal plans, visit www.dineoncampus.com/wsu.

Residence Life and Housing

Mission

Residence Life and Housing is committed to providing inclusive living and learning experiences that enhance resident's engagement in their own development and academic success. Students may choose to live in one of four residential facilities on campus: Chandler Village; Dowden Hall; Sheehan Hall or Wasylean Hall.

Residence Life and Housing offers several special housing opportunities. All first-year residents have the opportunity to participate in the Living Learning Communities (LLC). LLCs are programs that involve undergraduate students who live together in a residential community and participate in academic and extracurricular programming. LLCs are supported by academic departments and offices across campus and are housed in multiple areas of the residential community. Beyond living together, students enrolled in LLCs are offered co-curricular programming and shared coursework. This year, Residence Life and Housing is proud to offer LLCs for students majoring in Communication Sciences and Disorders, Nursing, and Occupational Therapy. Students who are members of the Honors Program at Worcester State also have a specialized LLC. Eco-House is offered to students who are interested in sustainability and in green living. Students interested in the Visual and Performing Arts (VPA) also are offered the opportunity to share and create together. Finally, CLEWS (Community and Leadership Experience at Worcester State) offers students the opportunity to participate in community service and leadership.

Office of Student Involvement and Leadership Development

The Office of Student Involvement ("OSILD") is located on the 2nd floor of the Student Center and provides a co-curricular program to the WSU student that enhances their overall educational experience. Coupled with their intensive academic program, the co-curricular program allows the student to get the most out of their college experience. Through participation in leadership training, clubs and organizations, and part-time job opportunities, the student benefits by getting real world experience in planning and implementing their own programs. These experiences allow the student to gain valuable life lessons such as time-management and event planning as well as other leadership skills.

Students are encouraged to participate in at least one co-curricular activity during their time at WSU. There are over 35 active student organizations on campus including groups such as Student Events Committee, Third World Alliance, Student Government, Equestrian team, Dance Team, Dance Company, Active Minds, Enactus, WSUR Radio, WSU Pride Alliance, Campus Ambassadors and many others. Leadership training is also provided and encouraged for all members of student organizations to improve their leadership skills and prepare for life after WSU. OSILD hires up to 60 students per year in the various work areas within the Student Center. Hiring is done at the end of April each year in areas such as the Information Desk, Print Center, Living Room, Student Managers, Secretarial Staff and Program Assistants.

OSILD also provides many opportunities for commuters to get involved on campus. The Commuter Services Office was developed specifically to work with commuters to get their voices heard as well as provide unique programming opportunities. The Commuter Advisory Board ("CAB") is a major student organization supporting the voice of commuter students and plan fun and educational events for the entire campus community with particular emphasis on commuter students.

The New Student Orientation Program also resides with the OSILD office. This includes planning and implementing first-year student, parent and transfer orientations throughout the year and employs 28 students as Orientation Leaders.

Veterans Service

Worcester State University proudly welcomes student veterans. Veteran's have provided a noble and crucial service, and for that, Worcester State thanks you. Worcester State is committed to helping veterans meet their educational needs by providing information, services, and support.

Certifying Official for Veterans Benefits

The Certifying Office for Veterans Benefits, which handles all aspects of Chapter 33, the Post-9/11 Bill, and the Montgomery GI bill, contact at WSU is: Cherie Milosh, Certifying Official (cmilosh@worcester.edu)
Registrar's Office, Administration Building, Room 107, 508-929-8773

The Registrar's Office can also provide general information of interest to veterans and dependents of veterans enrolled at WSU. Spouses and dependents of 100 percent disabled or deceased veterans wishing to inquire about possible veterans' benefits should contact the Registrar's Office.

Director of Veteran Services

Your dedicated contact for Services at WSU is:

Alan Jackson (ajackson @worcester.edu), Student Center, 3rd Floor, 508-929-8884

Once a veteran has been accepted to WSU, and the benefits are certified, the Office of Veterans Services will assist in the transition to the academic environment. On-campus and off-campus resources are available and coordinated through this office. The aim is to ensure that veterans are successful in completing the requirements as degree seeking students.

University Police Department

The Worcester State University Police Department's main priority is to provide the safest and most secure environment possible for the students, faculty, staff and visitors that comprise the institution's community. WSU believes that safety is everyone's responsibility and encourage students, faculty and staff to engage in community policing and to report any suspicious activity to Worcester State University Police. Policing is provided 24-hours a day throughout the calendar year by a full-time staff of sixteen sworn officers and three residence hall security officers. Worcester State University Police officers enforce the rules and regulations of Worcester State University in conjunction with applicable state and federal laws. The department also provides crime prevention programs and seminars scheduled at intervals throughout the year as well as ad hoc programs when requested by any constituent of the Worcester State University community. The Worcester State University Police and The Office of Transportation and Parking Clerk's offices are located on the first floor of Wasylean Hall. The University Police may be reached by visiting www.worcester.edu/police or by calling 508-929-8911.

The Binienda Center for Civic Engagement

The Binienda Center for Civic Engagement was established in the Spring of 2006 by a group of distinguished faculty at Worcester State University. The mission of the Center is to challenge students and faculty to investigate social problems by examining their root causes in the classroom while simultaneously addressing them in the community. To accomplish this successfully, students and faculty are encouraged to work collaboratively with community partners to design effective research and service projects.

Many faculty members and departments within WSU develop projects that involve faculty, staff, and students in reciprocal partnerships with public, private and non-profit organizations in communities to address critical social issues and align curriculum, scholarship, research and creative activity with the public good. The hope is that higher education institutions engender students' civic learning through participation in civic engagement, academic coursework, extracurricular activities and off-campus programming. The ultimate goal of civic learning and civic engagement is to prepare individuals for effective democratic participation, which in turn promotes growth of healthy communities, global economic vitality, social and political well being, and democratic human interactions.

Faculty, staff, students and community partners needing support in civic learning and engagement practices are invited to contact Dr. Mark Wagner at 508-929-8635 or at WSU_BiniendaCenter@worcester.edu

WORCESTER S T A T E UNIVERSITY

Discipline Information

University Switchboard: 508-929-8000 Web Site: www.worcester.edu

Discipline	Location Sponsoring Department	Phone Fax Departmental Website
Art	Learning Resource Center (LRC325) Visual Performing Arts	508-929-8145 508-929-8166 www.worcester.edu/vpa
Biology	Science & Tech Bldg (ST310) Biology	508-929-8569 508-929-8148 www.worcester.edu/biology
Biotechnology	Science & Tech Bldg (ST310) Biology	508-929-8569 508-929-8148 www.worcester.edu/biology
Business Adm.	Sullivan Academic Center (S203) Business Administration & Economics	508-929-8091 508-929-8048 www.worcester.edu/business
Chemistry	Science & Tech Bldg (ST410) Chemistry	508-929-8583 508-929-8171 www.worcester.edu/chemistry
Communication	Learning Resource Center (L332B) Communication	508-929-8829 508-929-8170 www.worcester.edu/communication
CommSci Disorders	Science & Tech Bldg (ST115L) Communication Sciences & Disorders	508-929-8055 508-929-8175 www.worcester.edu/csd
Computer Science	Science & Tech Bldg (ST110) Computer Science	508-929-8832 508-929-8156 www.worcester.edu/cs
Criminal Justice	Learning Resource Center (L120) Criminal Justice	508-929-8417 508-929-8426 www.worcester.edu/cj
Economics	Sullivan Academic Center (S203) Business Administration & Economics	508-929-8091 508-929-8048 www.worcester.edu/business
Education	Sullivan Academic Center Education (S226, S227, S218)	508-929-8671 508-929-8164 www.worcester.edu/education
English	Sullivan Academic Center (S303) English	508-929-8154 508-929-8174 www.worcester.edu/english
Environmental Science	Science & Tech Bldg (ST410) Earth, Environment & Physics	508-929-8583 508-929-8171 www.worcester.edu/deep
French	Sullivan Academic Center (S303)	508-929-8154 508-929-8174
Geography	World Languages Science & Tech Bldg (ST410) Earth, Environment & Physics	www.worcester.edu/worldlang 508-929-8583 508-929-8171 www.worcester.edu/deep
Health	Science & Tech Bldg (ST110) Health Science	508-929-8832 508-929-8156 www.worcester.edu/health
History	Sullivan Academic Center (S327) History & Political Science	508-929-8162 508-929-8155 www.worcester.edu/history

Discipline	Location Sponsoring Dept	Phone Fax Departmental Website
Math	Sullivan Academic Center (S145) Mathematics	508-929-8912 508-929-8197 www.worcester.edu/math
Music	Learning Resource Center (LRC325) Visual Performing Arts	508-929-8145 508-929-8166 www.worcester.edu/vpa
Nursing	Science & Tech Bldg (ST222) Nursing	508-929-8129 508-929-8168 www.worcester.edu/nursing
Occ. Studies	Science & Tech Bldg (ST210) Occupational Therapy	508-929-8624 508-929-8178 <u>www.worcester.edu/ot</u>
Philosophy	Sullivan Academic Center (S316) Philosophy	508-929-8406 508-929-8105 www.worcester.edu/philosophy
Physical Education	Science & Tech Bldg (ST110) Health Science	508-929-8832 508-929-8156 www.worcester.edu/health
Physics	Science & Tech Bldg (ST410) Earth, Environment & Physics	508-929-8583 508-929-8171 www.worcester.edu/eep
Political Science	Sullivan Academic Center (S327) History & Political Science	508-929-8162 508-929-8155 www.worcester.edu/history
Psychology	Sullivan Academic Center (S241) Psychology	508-929-8159 508-929-8172 www.worcester.edu/psychology
Sociology	May Street Building Sociology	508-929-8408 508-929-8177 www.worcester.edu/sociology
Spanish	Sullivan Academic Center (S303) World Languages	508-929-8154 508-929-8174 www.worcester.edu/worldlang
Theatre	Learning Resource Center (LRC Suite 325) Visual Performing Arts	508-929-8145 508-929-8166
Lluban Chudiaa	9	www.worcester.edu/vpa
Urban Studies	Sullivan Academic Center (S129) Urban Studies	508-929-8940 508-929-8144 <u>www.worcester.edu/urbanstudies</u>
Visual/Perform Arts	Learning Resource Center (LRC Suite 325) Visual Performing Arts	508-929-8145 508-929-8166 www.worcester.edu/vpa
World Languages	•	•
World Languages	Sullivan Academic Center (S303) World Languages	508-929-8154 508-929-8174 www.worcester.edu/worldlang

Financial Information

The schedule of fees, tuition, methods of payment and refund policies are those in effect at the time of publication. They are subject to change without notice.

Tuition and Fees

Tuition and fee schedules are presented separately for undergraduate day programs, and evening undergraduate, graduate and summer programs. Certain students may be eligible for tuition waivers. Information about eligibility requirements can be found in the section on financial aid.

Undergraduate State-supported Programs

In addition to the non-refundable application fee of \$50 for Commonwealth residents, \$50 for nonresidents, students must upon acceptance pay a \$75 non-refundable tuition deposit that will be credited towards tuition upon matriculation and an orientation fee for \$75. Students are billed for all semester charges following completion of registration.

Payment may be made by check, money order, or credit card (MasterCard, Visa, Discover, American Express). If payment is made by check, the cancelled check will serve as the student's receipt. If a student remits payment with a check that is returned because of insufficient funds, he or she must make any future payments to Worcester State in the form of a certified check, bank check, or money order. A returned check fee of \$25 will be imposed for each instance of a personal check in payment of any Worcester State charge that is returned not honored. Students will incur all collection fees if Worcester State must place their accounts with a collection agency and with the Commonwealth of Massachusetts for intercept of other State payments (tax refunds, etc.).

Monthly payment plans through external agencies are available for families who wish to avoid a large outlay of cash at the beginning of each semester. For further information, contact the Student Accounts office.

Non-Payment Reinstatement Policy

Payment in full is required by the due date specified on the student bill. Students whose accounts are not paid in full will be subject to cancellation of class enrollment. Students who have not paid their bill in full will receive a non-payment registration hold. Further, if the account remains unpaid after the add/drop period, the Blackboard access will be suspended until paid along with a \$75.00 reinstatement fee.

If after the suspension period, the account remains unpaid, the entire student schedule will be deleted and reinstatement into those courses will not be allowed.

Tuition and fees are subject to change by vote of the Legislature, Department of Higher Education, or Board of Trustees.

Tuition Surcharge

Students enrolled in credits that result in course registration in excess of 118% of academic degree program requirements will be assessed a tuition surcharge. These students are required to pay a surcharge of \$235 per credit hour in excess of the 118% limit. Transfer and continuing education credits are not included in total credit hour when determining who will be assessed the surcharge.

Worcester State University Affordability/Accessibility Disclosure Statement 2016 – 2017

Annual Department of Higher Education

Affordability/Accessibility Disclosure Statement

One of the benefits of being part of public higher education in Massachusetts is the substantial subsidy students receive to enroll in Worcester State. The annual cost information below is provided about the "average" student as a way of showing the amount of this subsidy.

Full Operating Cost (per full-time student)	\$ 19,179
Less: State Operating Subsidy	(6,779)
= Tuition and Mandatory Fees (based on 30 credit hours)	12,400
Add: Average Residence Hall Fees	<u>11,649</u>
= Cost of Attendance Estimate	24,049
Annual Aid Available to Students	
Less: Average Annual Student Financial Aid	<u>\$(10,055)</u>
= Net Direct Price to Student	13,994

Tuition and Fees - Fall 2016/2017

Undergraduate Day Division*	<u>Annual</u>	Per Semester	Per Cr. Hour
Cost for Full-Time In-State Student	\$9,202.00	\$4,601.00	\$383.42
Tuition:			
MA Resident	\$ 970.00	\$ 485.00	\$ 40.42
Non-Resident	7,050.00	3,525.00	293.75
N.E. Regional	1,455.00	727.50	60.63
Fees:			
General Fee	7,534.00	3,767.00	313.92
Student Activity Fee	72.00	36.00	3.00
Student Health Services Fee	110.00	55.00	4.58
Capital Improvement Fee	516.00	258.00	21.50
Total Fees	<u>\$8,232.00</u>	<u>\$4,116.00</u>	\$343.00
Residence Halls:			
Residence Hall Fee			
Chandler Village	\$7,785.00	\$3,892.50	
Dowden Hall	7,485.00	3,742.50	
Single (Additional charge)	400.00	200.00	
Wasylean Hall-single	8,585.00	4,292.50	
Wasylean Hall-double	8,185.00	4,092.50	
Sheehan Hall	8,005.00	4,002.50	
Residence Activity Fee	50.00 220.00	25.00 110.00	
Technology and Equipment Fee Resident Parking Fee–satellite lot	100.00	50.00	
Board	3,640.00	1,820.00	
Damage Deposit (1st Semester)	3,040.00	1,020.00	
		100.00	
Other:			
Health Insurance	\$2,511.00	na	
Orientation Fee (New Students)	75.00	na	
Commuter Meal Plan	300.00	150.00	
Division of Graduate and Continuing E	Education		
Tuition:			
Undergraduate**			\$130.00
Graduate			150.00
Fees:			
Administrative Fee			
Undergraduate			\$125.00
Graduate			126.50
Capital Improvement Fee			21.50
Other:			
Student Teaching		\$ 75.00 per	course
Lab Instruction		90.00 per	
Art Model Fee		25.00 per	
Applied Music Fee		260.00 per	
Application Fee		50.00 per	item
Transcript Fee		5.00 per	item
Field Work Supervision			\$ 15.00
Internship			15.00

^{*}Undergraduate Day division courses are offered M-F, 8 a.m. - 4 p.m.

^{**} Undergraduate courses in the Division of Continuing Education begin at 4 p.m. M - F, Sat/Sun, and on-line

Room and Board

Students admitted to Worcester State as resident students will be notified by the Director of Admissions. The information will be made available to the Residence Life Staff and subsequent correspondence regarding residence hall assignments should be sent to the Office of Residence Life and Housing. First-year residents, including first-year transfer students, are not permitted to have cars on campus.

Housing is guaranteed ONLY for the specified academic year for which a student signs an occupancy agreement.

Students residing in campus housing are assessed a room fee and a food service fee each semester. All students residing on campus are required to purchase a food service plan for the academic year. Upon acceptance, each resident student must pay a \$150 non-refundable room deposit and a \$100 damage deposit:

For First-Year and Transfer Students

- A separate check for \$150 (non-refundable) must be submitted to the Admissions Office. Payment of this deposit and the resident's receipt of an agreement signed by Worcester State will reserve a space for occupancy; half of the deposit is applied to the room charge for each semester.
- 2. The \$100 damage deposit will be billed with room rent.

For Returning Residents

- A \$150 room deposit (non-refundable) along with a signed License Agreement Form must be submitted at the time of room selection for the following year; half of the deposit is applied to the room charge for each semester.
- 2. The \$100 damage deposit will be billed with room rent.

Food Service Plan: The food service plan is a board plan that permits the user to purchase a specific number of meals per week. Resident first-year students, sophomores, juniors, resident transfer students, and students residing in Dowden Hall are required to be on the full board plan for one academic year. This plan (\$1,820 per semester) was designed to meet the needs of those students who plan to eat all their meals on campus. All other residents are required to purchase one of three block plans. The food service is available to meet with students to develop an appropriate food service plan. These plans are also available for commuter students.

Waiting List Procedure: First-year and transfer students may submit to the Admissions Office a \$150 room deposit to be considered for room assignment. All other students may submit to the Residence Hall Office a \$150 room deposit along with a signed License Agreement Form to be considered for room assignment. Students' names will be placed on a waiting list until a room becomes available; assignments will be made on a first-come, first-served basis.

Evening Undergraduate, Graduate, and Summer Programs

Tuition for undergraduate courses is currently \$130 per semester hour of credit. Tuition for graduate courses is currently \$150 per semester hour of credit. Tuition is payable at the time of registration and may be made by bank check, money order, personal check, or credit card (MasterCard, Visa or Discover); cash will not be accepted.

Fees are charged and payable when and as applicable:

General Fee (Undergraduate)	\$ 115.00 — per credit
General Fee (Graduate)	116.50 — per credit
Capital Improvement Fee	21.50 — per credit
Transcript	5.00 — per copy
Rush Transcript	10.00 — per copy
Laboratory Instruction	90.00 — per course
Nursing Clinical	320.00 — per course

Field Work Supervision/Internships/

Teacher Education Practicum 15.00 — per credit hour

Tuition and fee charges are subject to change by the Board of Trustees.

Course Cancellation/Processing of Tuition Refunds

Worcester State reserves the right to cancel any course for which there is insufficient enrollment. Students may transfer to another course by completing appropriate forms in the Registrar's Office. Processing of tuition refunds takes two to four weeks. Refunds are sent to the student at the address of record.

Student Health Insurance

Undergraduate degree seeking students enrolled in nine (9) or more credits per semester, and graduate degree seeking students enrolled in seven (7) or more credits per semester are required by State regulation to carry individual health insurance coverage. Students without such coverage will be billed a health insurance premium (currently \$2,292 per year) for mandatory enrollment. Students who already have appropriate coverage must complete a waiver of insurance at the time of payment (before the first day of classes) in order to waive the mandatory insurance premium. Any student not completing a waiver will be billed for insurance. This charge may not be adjusted, and is non-refundable after the add/drop period.

General Worcester State Refund Policy

Applicability

This refund policy applies to all full- and part-time students enrolled in regularly scheduled courses at Worcester State other than those attending Worcester State for the first time (in the current academic year) and receiving financial aid. This policy applies to all tuition, room, board, fees, and other standard billed charges.

Withdrawal Requirements

All matriculated students, undergraduate and graduate, who wish to withdraw from Worcester State must do so in writing to the Registrar's Office on the prescribed form. The official date of withdrawal is that on which the completed form is received and stamped by the Registrar.

All withdrawals from courses — rather than withdrawal from Worcester State entirely — must be done in writing to the Registrar's Office, following the procedures established for that purpose.

Refund Policy

Refunds for withdrawal from Worcester State or withdrawal from courses will be made based on the following schedule if official notice of withdrawal has been received in writing and certified by the Registrar:

- 1. Prior to the first day of classes, or within the official add/drop period
 - · Full refund of all tuitions and fees paid
- 2. After the official add/drop period
 - No refund of any tuitions or fees paid (unless registration is cancelled by Worcester State)

3. Room Charge (if applicable)

- A full refund of room fees, less the \$150 room reservation deposit will be made if
 intention to withdraw is received by the Director of Housing in writing at least 30
 days prior to the beginning of the semester, and Worcester State is able to fill the
 vacancy thus created.
- A pro-rata refund of room fees will be made if intention to withdraw is received by the Director of Housing in writing prior to November 1st (Fall semester) or April 1st (Spring semester), and Worcester State is able to fill the vacancy thus created.
- The Housing Contract is for the term of one (1) full academic year, unless otherwise specified in writing. To terminate this agreement, for any reason other than terminating his/her status as a student of Worcester State, a student must petition for release with the Director of Residence Life. Such release is not guaranteed, and Worcester State reserves the right to deny requests to terminate or cancel the agreement.

Return of Title IV Funds

Refund Policy for Students Who Receive Federal Financial Aid

Applicability

This refund policy applies only to all full- and part-time students enrolled in regularly scheduled courses at Worcester State who are receiving Federal Title IV Financial Aid.

This policy is mandated by federal regulation.

Withdrawal Requirements

All matriculated students, undergraduate and graduate, who wish to withdraw from Worcester State must do so in writing to the Registrar's Office on the prescribed form. The official date of withdrawal for this refund policy is the date that the student begins the official withdrawal process or the date that the student officially notifies Worcester State of his or her intent to withdraw.

Refund Policy

Refund of Federal Title IV Financial Aid will be based on the date a student completely withdraws from Worcester State as described above. During the first 60% of the semester or summer term a student earns Title IV funds in direct proportion to the length of time he or she remained enrolled. A student who remains enrolled beyond the 60% point earns all aid for the semester or summer term.

The percentage of the semester or summer term that a student remains enrolled is derived by dividing the number of days a student remains in attendance by the number of days in a semester. Calendar days are used but breaks of at least five days are excluded from both the numerator and the denominator.

Unearned Federal Title IV aid other than Federal Work-Study must be repaid in the following order:

Federal Unsubsidized Stafford Loan

Federal Subsidized Stafford Loan

Federal Perkins Loan

Federal Parent Loan

Federal Pell Grant

Federal Supplemental Educational Opportunity Grant

Other Title IV programs

Students must repay 100% of unearned loans according to the terms of their Promissory Note. Only 50% of unearned grants must be repaid within 30 days of withdrawal from Worcester State.

Financial Aid

General Information

All students are encouraged to apply for financial aid to help them meet their educational costs. To receive financial assistance from the University, students must be enrolled in a degree-granting or federally-approved certification program at Worcester State University. Second-degree students are eligible for Federal Loans and graduate students are eligible for Federal Loans and Federal Work Study funds. Applicants must also meet all Federal eligibility requirements and must be in good academic standing.

Financial aid is awarded to students with demonstrated financial need. Need is the difference between the total cost of college attendance (including reasonable costs for room, board, books, transportation, and other personal expenses) and the expected family contribution. Non-need based financial aid is available through several loan programs.

Complete information on financial aid programs, application procedures, and the award process is available in the Worcester State University Financial Aid Guide on the Financial Aid Office website at www.worcester.edu/financialaid. Applicants to the University, current students, and their families should feel free to contact the Financial Aid Office at 508-929-8056.

Application Process

All students applying for financial aid must complete and submit a Free Application for Federal Student Aid (FAFSA). Priority for financial aid is given to students who comply with the deadlines listed below. Please note that funding from the Federal Pell Grant and Federal Direct Loan programs is available to all late applicants who qualify.

All applicants are encouraged to apply for any scholarship assistance awarded by the state in which they legally reside. Students are urged to contact the appropriate agency in their home state for further information.

Financial aid is not automatically renewable. A new application for financial aid must be submitted for each academic year.

Financial Aid Application Deadlines

March 1

priority date for filing the Free Application for Federal Student Aid (FAFSA).
 All students who wish to be considered for financial aid, must file the FAFSA.

May 1

- deadline for applying for the MASSGrant.
- deadline for on-time consideration for financial aid for students entering in the upcoming Fall

Late applications will be considered subject to the availability of funds.

November 1

 deadline for on-time consideration for financial aid for students entering in the upcoming Spring

Sources of Financial Aid

Worcester State University has numerous financial aid programs available to assist students in meeting college costs. Funding for these programs comes from federal, state, institutional and private sources. Types of programs include grants, scholarships, waivers, loans, and employment. Please go to www.studentaid.ed.gov for more information on federal aid and www.osfa.mass.edu for more information on state aid.

Federal Grants and Benefits

Federal Pell Grant

The Federal Pell Grant is available to undergraduate students enrolled in a degree program who do not already have a bachelor's degree. For the 2016-2017 academic year, Pell Grants range from \$598 to \$5,815. All eligible students will receive the Federal Pell Grant amount to which they are entitled.

Federal Supplemental Educational Opportunity Grant

The Federal Supplemental Educational Opportunity Grant (FSEOG) is a federal grant administered by the University. These Grants are limited to undergraduate students who do not already have a bachelor's degree. Priority is given to students with exceptional need and to Pell Grant recipients. SEOG awards are determined by the Financial Aid Office.

Veterans Benefits

The Veterans Administration has approved Worcester State University for the purpose of providing Veteran's Educational Benefits to veterans pursuing undergraduate and graduate study. Massachusetts veterans entitled to educational benefits must provide the Registrar's Office with a copy of their Form DD-214. Upon receipt of this certificate and the veteran's application, the University will prepare a notice of enrollment and notify the Veterans Administration to determine eligibility for, and initiate payments to the student. Questions concerning veteran's benefits should be directed to the Office of the Registrar.

Grants and Waivers for Massachusetts Residents

MassGrant Program

The MASSGrant Program is administered and awards are made by the Office of Student Financial Assistance under the MA Department of Higher Education. Scholarship eligibility is verified by the Financial Aid Office. For the 2016-2017 academic year, scholarship awards at Worcester State University range from \$400 to \$1,100. Application is made by completing the FAFSA. Massachusetts residents applying for financial aid who will enroll full-time must apply for MASSGrant by May 1. MASSGrant eligibility is limited to eight semesters.

Worcester State University Need-Based Tuition Waiver and Massachusetts Cash Grant Program

Full and partial need-based tuition waivers are awarded to selected students who demonstrate financial need and who are:

- · undergraduate students
- in good academic standing
- · legal residents of Massachusetts.

Waivers may not exceed a semester's tuition charge and other waivers and/or tuition remissions for which a student is eligible will be deducted from the tuition charged before the need-based tuition waiver amount is determined. Award amounts are determined by the Financial Aid Office.

Massachusetts Cash Grant is awarded based on need and cannot exceed tuition and fees. Award amounts are determined by the Financial Aid Office.

Categorical Tuition Waivers

Worcester State University students may be considered for tuition waivers based on the following designations (contact the Bursar about providing documentation of eligibility):

Veterans Tuition Waiver: As provided in M.G.L. Chapter 4, Section 7(43) including: Spanish War, World War I, World War II, Korean, Vietnam, Lebanese Peace Keeping Force, Granada Rescue Mission, the Panamanian Intervention Force, or the Persian Gulf.

For purposes of tuition waivers, the term "veteran" shall also include any individual who served in the Army, Navy, Marine Corps, Coast Guard or Air Force of the United States for not less than ninety days at least one of which was served in the theatre of operation for the Somalian mission known as "Operation Restore Hope" and whose last discharge or release was under honorable conditions.

Native American Tuition Waiver: Available and certified by the Bureau of Indian Affairs.

Senior Citizen Tuition Waiver: Available for persons over the age of 60.

Armed Forces Tuition Waiver: Available for an active member of the Armed Forces including Army, Navy, Air Force, or Coast Guard stationed and residing in Massachusetts.

Clients of the Massachusetts Rehabilitation Commission or Commission for the Blind: Available as certified by the respective commission.

John and Abigail Adams Scholarship Program: Awards non-need-based state-supported undergraduate tuition waivers to students who are awarded John and Abigail Adams Scholarship by the Department of Education. Completion of a FAFSA, continuous full-time enrollment at a state college or university, and a 3.0 are required.

Mass Transfer Program: Available to students who have completed an associate degree at a public community college under the Mass Transfer Program. The waiver is equal to 100% of the resident tuition rate at Worcester State University for the two years of a student's enrollment immediately following their community college enrollment. A 3.0 GPA is required for renewal of the waiver.

Department of Social Services Adopted Children Tuition Waiver: This tuition waiver encompasses 100% of tuition for state-supported courses at all of the Massachusetts public institutions of higher education, excluding graduate courses. Eligible students include all students in the custody of the Department of Social Services adopted by eligible Massachusetts' residents through the Department of Social Services. Students must be twenty-four (24) or under. The Department of Social Services will provide certification of eligibility for the waiver; please contact them for further information.

Department of Social Services Foster Care Tuition Waiver: This tuition waiver encompasses 100% of tuition for state-supported courses at all of the Massachusetts public institutions of higher education, excluding graduate course. Eligible students include all students in the custody of the Department of Social Services placed in foster care with eligible Massachusetts' residents through the Department of Social Services. Students must be twenty-four (24) or under. The Department of Social Services will provide certification of eligibility for the waiver; please contact them for further information.

Massachusetts National Guard Scholarships: Members of the Massachusetts Army or Air National Guard Office Recruitment Program are eligible for 100% tuition remission. Eligibility must be renewed after each 30 credits attempted. Contact the Massachusetts National Guard or the Registrar's Office to speak to the Veteran's Representative for more information.

Police Officer/Fire Fighter Waiver: Tuition waivers are available to police officers or fire fighters of a city or town of the Commonwealth of Massachusetts for full-time attendance as a matriculated student when proper certificates and credentials are submitted to the Bursar's Office.

State Employees' Tuition Remission: State Employees and their dependents that elect to take courses at Worcester State University may have some or all of their tuition waived. Documentation of eligibility should be submitted to the Bursar's Office. Eligible persons should contact the Personnel Office at their place of employment for further details.

Army/Navy/Air Force ROTC Scholarship Programs: The ROTC Scholarship is designed to offer financial assistance to outstanding students in the four year programs. Normally, the award is made prior to the student's first-year of college; however, a student may enter the program in their first-year. Recipients are required to serve on active duty in the branch of the Service they have elected for a period of four years, and then in the active reserve. Contact the ROTC Office at the College of the Holy Cross or Worcester Polytechnic Institute for further information.

Student and Parent Loans

Federal Direct Loans

The Federal Direct Loan Program is a federal loan program designed to help a student pay expenses at institutions of post-secondary education. All Federal Direct Loan applicants must demonstrate financial need in order to qualify for a subsidized loan. A student with no need or partial need may be eligible for an unsubsidized loan. A Free Application for Federal Student Aid (FAFSA) must be completed before a Federal Subsidized and/or Unsubsidized Direct Loan can be processed. The interest rate for Federal Direct Loans is variable but will not exceed 8.25%. The interest rate is adjusted each year on July 1. The repayment period for Federal Direct Loans begins six months after the student/borrower is graduated, ceases to be at least a half-time student or withdraws from school.

- Dependent/Independent undergraduates can receive subsidized Direct Loans up to: 1) Students who have completed 1-29 credit hours of study are eligible for \$3,500, 2) Students who have completed 30-59 credit hours of study are eligible for \$4,500, 3) Students who have completed 60 or more credit hours of study are eligible for \$5,500. Also, all students are eligible for up to \$2,000 in additional unsubsidized Direct Loans.
- Independent students and dependent students whose parents are unable to
 obtain a PLUS loan can borrow additional amounts from the Unsubsidized Federal
 Direct Loan Program, in the amount of \$4,000 for their first and second years of
 study and \$5,000 for their third and fourth year.
- Graduate students can borrow up to \$20,500 from the Unsubsidized Federal Direct Loan Program if their cost of education warrants these amounts.

Direct Loan borrowers should go to <u>www.studentloans.gov</u> for specific information on repayment, deferment, cancellation and default provisions.

Federal Parent Loan to Undergraduate students (PLUS)

This loan enables parents of dependent undergraduates to borrow for their dependent's education. A FAFSA is required to receive a Federal Plus Loan. Repayment of this loan begins within 60 days of the date that the loan is disbursed. However, parents may apply for a deferment through their servicer. The interest rate is variable, adjusted annually, not to exceed 9%. Parents may borrow up to the cost of attendance annually, less any financial aid awarded to the student. Parents can apply for PLUS loans and get specific information on repayment, deferment, cancellation and default provisions at www.studentloans.gov.

Private Education Loans

Private education loans may be available to assist students who have received the maximum financial aid award(s) allowed through grants, workstudy, and loans but still have remaining University expenses.

Students may search online for more information regarding private education options.

Student Employment

Federal Work-Study Program

The Federal Work-Study Program (FWSP) is a need-based program that provides federally subsidized employment opportunities on campus for enrolled students. A student's financial aid award letter indicates the FWS award and maximum earnings limit, typically \$1,500, depending on availability of funds and individual need. Students are paid only for hours actually worked. The FWSP wage rate is variable depending on placement. FWSP earnings are not applied directly to the student's tuition account without the student's written consent. These wages are paid directly to the student. Students employed under the FWSP Program are not eligible for unemployment compensation benefits or worker's compensation for onthe-job accidents. Students are encouraged to participate in employment that complements and reinforces their educational goals.

Other On-Campus Employment

Some departments on campus—including the Student Center, the bookstore, the campus food service contractor, the Learning Resource Center, and the Residence Life Office—offer part-time jobs to students. Contact the department(s) for information on possible openings and application procedures. Students are encouraged to see if they qualify for FWSP funding before applying for these jobs.

Tuition Payment Plan

Worcester State University offers an interest-free payment plan administered through Nelnet. Payments start before a semester begins, so please apply early. You may contact Nelnet directly at 800-609-8056 or sign up online at nbspayments.com.

Worcester State University Merit Scholarships for Entering Students

Worcester State University recognizes superior academic achievement by awarding a number of academic scholarships to incoming first-year students. Merit Scholarships can provide up to full in-state tuition and fees and are awarded for a full academic year. They are renewable for full-time students who maintain a specific GPA. Applying for admission to WSU automatically constitutes consideration for these scholarships. No additional application is required. A limited number of merit scholarships are available and students must meet minimum academic standards in order to be eligible. Meeting minimum academic standards does not guarantee the awarding of a merit scholarship. Additional factors beyond a student's GPA and SAT scores are considered in the selection process.

Tsongas Scholarship

Awarded each year to Massachusetts residents for full in-state day school tuition and fees. They must have a recalculated GPA of a 3.75 (using DHE methodology) and a combined SAT (CR&M) of 1200. The scholarship is renewable for a maximum of four contiguous years to recipients who maintain a minimum cumulative GPA of 3.3.

Presidential Scholarship

Awarded each year for full in-state day school tuition and fees. The student must have a recalculated GPA of 3.75 or above (using DHE methodology) and a combined SAT (CR&M) of 1200 (sub-score minimums of 500). The scholarship is renewable for a maximum of four contiguous years to recipients who maintain a minimum cumulative GPA of 3.3.

Merit Scholarship

Awarded each year for \$3,000 each. The student must have a recalculated GPA of 3.5 or above (using DHE methodology) and a combined SAT (CR&M) of 1150 (sub-score minimums of 500). The scholarship is renewable for a maximum of four contiguous years to recipients who maintain a minimum cumulative GPA of 3.0.

Achievement Scholarship

Awarded each year for \$1,500 each. The student must have a recalculated GPA of 3.2 or above (using DHE methodology) and a combined SAT (CR&M) of 1100 (sub-score minimums of 500). The scholarship is renewable for a maximum of four contiguous years to recipients who maintain a minimum cumulative GPA of 3.0.

Access Scholarship

Awarded each year to Massachusetts residents of under-represented populations including African American, Latino/a, Asian, and Native American applicants and first-generation, low-income applicants for \$1000 each. The student must have a recalculated GPA of 2.5 (using DHE methodology) and a combined SAT (CR&M) of 920 with sub-score minimums of 460. The scholarship is renewable for a maximum four contiguous years provided recipients maintain a specific minimum cumulative GPA requirement.

New Student Transfer Scholarship

Awarded each year for \$1,000 each. Students must have completed 30 transferrable credits from a regionally-accredited college or university with a minimum 3.2 cumulative grade point average. The scholarship is renewable for a maximum of four consecutive semesters to recipients who maintain a minimum cumulative GPA of 3.0. Students must complete a minimum of 12 credit hours per semester and a minimum of 24 credit hours per academic year.

Worcester State University Academic Scholarships for Returning Students

Academic scholarships provided by generous donors are available to undergraduate students at Worcester State University who meet the eligibility criteria. These scholarships are available to a wide variety of class years, majors, backgrounds, and interests, as well as varying levels of academic success and financial need. Applications are accepted annually shortly after January 1st, until April 15th. Students are required to apply online. Details are available at www.worcester.edu/scholarships.

FALL 2016 ACADEMIC CALENDAR

September	
1	Pre-College Conference
5	Labor Day: NO CLASSES
6	Classes begin: day, evening, graduate
12	Last day to add day courses (state-supported)
19	Last day to drop day courses (state-supported)
19	Last day to add/drop evening/graduate courses (non state-supported)
October	
10	Columbus Day: NO CLASSES
12	Last day to declare/change major/minor
18	Last day to makeup Incomplete grades from Spring/Summer 2016
20	Failure warnings due in the Registrar's Office
24	Failure warnings issued to students
10/31-11/10	Advising for Pre-registration
November	
1	Last day to withdraw from courses/school
10	Last day to elect Pass/Fail option
11	Veterans' Day NO CLASSES
14-18	Pre-registration for Spring 2017
23-26	Thanksgiving Recess
December	
11/28-12/2	Student evaluation of the faculty
9	All classes end
12	Reading Day
13-21	Final Exams-day classes
22-23	Make-up days for exams postponed due to inclement weather
28	Final grades for Fall 2016 due to Registrar's Office
31	Semester ends

	EXAMINATION S	CHEDULE: FA	LL 2016	
CLASS DAY	AND TIME EXA	MINATION DAY	AND TIME	
MWF	8:00/8:30AM	Wednesday	December 14	8:30AM
MWF	9:30AM	Friday	December 16	8:30AM
MWF	10:30AM	Monday	December 19	8:30AM
MW/MWF	11:30AM	Wednesday	December 14	12:30PM
MW/MWF	12:30PM	Friday	December 16	12:30PM
MW/MWF	1:30/2:00PM	Monday	December 19	12:30PM
MW	3:30PM	Wednesday	December 21	8:30AM
F	11:30/12:30/1:30PM	Wednesday	December 21	12:30PM
TR	8:30AM	Tuesday	December 13	8:30AM
TR	10:00AM	Thursday	December 15	8:30AM
TR	11:30AM	Tuesday	December 13	12:30PM
TR	1:00PM	Thursday	December 15	12:30PM
TR/T	2:30PM	Tuesday	December 20	8:30AM
R	2:30PM	Tuesday	December 20	12:30PM

SPRING 2017 ACADEMIC CALENDAR

January

- 16 Martin Luther King Day: NO CLASSES
- 17 Classes begin: day, evening, graduate
- 23 Last day to add day courses (state-supported)
- 30 Last day to drop day courses (state-supported)
- 30 Last day to add/drop evening, graduate courses (non state-supported)

February

- 20 President's Day: NO CLASSES
- 28 Last day to make up Incompletes from Fall 2016

March

- 13 Failure warnings due in the Registrar's Office
- 15 Last day to declare/change major or minor
- 16 Failure warnings issued to students
- 20-25 Spring Break: NO CLASSES
- 3/27-4/7 Advising for Pre-registration
 - 28 Last day to withdraw from courses/school

April

- 4 Last day to elect Pass/Fail status
- 10-14 Pre-registration for Fall 2015
 - 17 Patriot's Day: NO CLASSES
- 24-28 Student evaluation of faculty

MAY

- 2 All classes end
- 3 Reading Day
- 4-12 Final Exams-day classes
 - 12 Graduate Commencement
 - 13 Undergraduate Commencement and end of semester
 - 17 Final grades for Spring 2017 due to Registrar's Office

	EXAMINATI	ON SCHEDULE SPRI	NG 2017	
CLASS DA	AY AND TIME	EXAMINATI	ON DAY AND	<u>TIME</u>
MWF	8:00/8:30AM	Friday	May 5	8:30AM
MWF	9:30AM	Monday	May 8	8:30AM
MWF	10:30AM	Wednesday	May 10	8:30AM
MW/MWF	11:30AM	Friday	May 5	12:30PM
MW/MWF	12:30PM	Monday	May 8	12:30PM
MW/MWF`	1:30/2:30PM	Wednesday	May 10	12:30PM
MW	3:30PM	Friday	May 12	8:30AM
F	11:30/12:30/1:30PM	Friday	May 12	12:30PM
TR	8:00/8:30AM	Thursday	May 4	8:30AM
TR	10:00AM	Tuesday	May 9	8:30AM
TR	11:30AM	Thursday	May 4	12:30PM
TR	1:00PM	Tuesday	May 9	12:30PM
TR/T	2:30PM	Thursday	May 11	8:30AM
R	2:30PM	Thursday	May 11	12:30PM

DGCE SUMMER 2017 ACADEMIC CALENDAR

March	7	Summer Registration Begins
May	22 29 30	Summer Session I Begins Memorial Day: NO CLASSES/COLLEGE CLOSED Last day to Add/Drop (Summer I)
June	9 9 30 30	Last day to Withdraw (Summer I) Last day to request Pass/Fail (Summer I) Summer Session I Ends (Registration shuts down at 11:30 a.m. then restarts on July 3)
July	4 5 10 21 21	Independence Day Observed: NO CLASSES/COLLEGE CLOSED Summer Session II Begins Last day to Add/Drop (Summer II) Last day to Withdraw (Summer II) Last day to request Pass/Fail (Summer II)
August	15	Summer Session II Ends

Important Notes:

First time WSU students taking ONLINE or HYBRID/BLENDED courses registering by fax, mail or in person must register by Friday, May 5th in order to get online access set up in time for the start of Summer I. The deadline for Summer II registration for a first time WSU student talking ONLINE or HYBRID BLENDED courses is Friday, June 16th.

Students must visit WebAdvisor to view course schedules and for their final grades. Schedules and grades will not be mailed.

WINTERSESSION 2017 January 5 – January 13, 2017

October 18 – January 3	Wintersession 2017 Registration
Tuesday, January 3	Classes Begin
Wednesday, January 4	Deadline to add or drop Wintersession Classes
Thursday, January 5	Deadline to request Pass/Fail grading Deadline to request a withdrawal
Friday, January 13	Last day of classes

Registration Dates: October 18, 2016 - January 3, 2017

Saturday, January 14 Snow Cancellation Make Up Day

Registration: On-Line www.worcester.edu or in person: Shaughnessy Administration Building, 4th Floor. First time WSU students taking ONLINE or BLENDED courses, registration deadline is **December 2, 2016**. Payment is due in full at registration: MasterCard, VISA, Discover, American Express, Check or Money Order. ADD/DROP through January 4th with full refund. WITHDRAW or PASS/FAIL declaration through January 5th.



OFFICE OF ACADEMIC AFFAIRS

Dr. Lois A. Wims
Provost and Vice President for Academic Affairs

Dr. Roberta Kyle
Associate Vice President for Continuing Education and
Dean of Graduate Studies

Dr. Anthony K. Adade
Associate Vice President and Chief Information Officer

Dr. Linda S. Larrivee
Dean of the School of Education, Health and Natural Sciences

Dr. Jane O'Brien Friederichs
Interim Dean of the School of Humanities, Social Sciences

TBD Director, Honors Program

Gerald E. Sorge Jr.
Director, Academic Affairs Administrative Support

Marcela Uribe-Jennings Assistant Dean of Multicultural Affairs and Alternatives for Individual Development



Ethnic Studies Concentration

PROGRAM STRUCTURE AND REQUIREMENTS

- Offered as an interdisciplinary concentration
- 15 credits total across at least two disciplines.
- Required course (3 credits): ES 101: Introduction to Ethnic Studies
- Core Courses (12 Credits): Chosen from approved list of electives across departments

PROPOSED COURSES

As an interdisciplinary concentration, Ethnic Studies draws its core courses from multiple disciplines across campus. Each semester faculty leadership will approve a list of courses that contribute to the concentration in collaboration with faculty from multiple departments who wish to cross list their courses. As of Fall 2015, the following courses currently offered at WSU could form the list of available electives for an Ethnic Studies Concentration.

Communication

CM 345	Media and Democracy
CM 350	Intercultural Communication
CM 384	Media Criticism
CM 390	Alternative Communication
CM 416	Media Law and Ethics

Education Department

ED 270	Diversity and Multicultural Education
ED 339	Children's Literature: Multicultural Literature for PK-9

English Department

EIN IOZ	World Literature. Survey of Asian, Amedan, and Latin American Literature
EN 167	Literature and Human Rights
EN 169	Ethnic Literature in the U.S.
EN 240	Survey of Postcolonial and Transcultural Literature
EN 345	Women in American Literature (Title will change in 2016 to "American
	Women Writers")
EN 347	Studies in U.S. Ethnic Literature
EN 348	Postcolonial Women's Writing

Health Sciences Department

HC 234 Multiculturalism and Health

History and Political Science Department

- HI 205 Native America
- HI 208 American Immigrant History
- HI 217 US Social History
- HI 221 African-American History I
- HI 222 African-American History II
- HI 230 Nicaragua, the US and the World
- HI 248 Globalization and Human Rights
- HI 244 American Urban History
- HI 303 Colonial History
- HI 345 Religion in America
- HI/PO 320 Citizen Nation
- HI 450 Hegemony & Social Justice in the USA
- HI 450 History of Latinos in the USA

Philosophy Department

- PH 151 Race, Gender, and the Law
- PH 177 Latin American Philosophy
- PH 178 Africana Philosophy
- PH 241 Genocide and Human Rights
- PH 242 Race, Nation, Class, Gender, and Sexuality
- PH 251 Mass Violence Against Women

Psychology Department

PS 255 Psychological Foundations of Diversity

Sociology Department

- SO 285 Race, Class, and Gender
- SO 315 Social Movements
- SO 350 Social Stratification
- SO 360 Urban Sociology

Urban Studies Department

- UR 212 American Metropolitan Evolution
- UR 213 Human Identity and the Urban Environment
- UR 310 Power, Politics, and Decision-Making in Urban Communities
- UR 380 Public Policy and Cultural Diversity

Visual and Performing Arts Department

- AR 165 Creating Cultural Forms
- TH 237 History of Theater II

World Languages

SP 333 The Hispanic Presence in the United States

Proposed Faculty

As an interdisciplinary concentration, Ethnic Studies draws its core faculty from multiple disciplines across campus. Faculty members from across campus whose teaching and scholarship are engaged with Ethnic Studies can choose to become affiliate faculty members of the Ethnic Studies Program. Additionally, the Ethnic Studies Program seeks to build linkages between Academic Affairs and Student Affairs to support students' academic success and the enrichment of the campus culture. As such, offices related to the mission of the Ethnic Studies program have also been included as affiliates of the program and as collaborators in strengthening both the curricular and co-curricular richness of the Ethnic Studies program. This list of faculty and staff is current as of Fall 2015

Education Department

Margarita Perez, Professor of Education (1999)

B.A., Mount Holyoke; M.A., Ed.D., Teachers College, Columbia University

Sara Young, Assistant Professor (2014)

Ed.D., University of Massachusetts, Amherst, Teacher Education

Communication

Alta Carroll, Professor of Communication

B.A., Texas A&M University; M.S., Columbia University; Ph.D., Purdue University

Carlos Fontes, Professor of Communication (1996)

B.A., Escola Superior de Meios de Communicação Social, Lisbon;

M.A., Ph.D., University of Massachusetts, Amherst

Julie Frechette, Professor of Communication

B.A., University of New Hampshire; M.A., Ph.D., University of Massachusetts

English Department

Josna E. Rege, Professor of English (2006)

B.A., Harvard University; M.A., Ph.D., University of Massachusetts, Amherst

Heather Treseler, Assistant Professor (2011)

B.A., Brown University; Ph.D. University of Notre Dame

Karen Woods Weierman, Professor of English (2000)

B.A., Georgetown University; Ph.D., University of Minnesota

History Department

Aldo V. Garcia Guevara, Associate Professor of History (2006)

B.A., University of North Carolina, Asheville; M.A., Ph.D., University of Texas, Austin

Charlotte Haller, Associate Professor (2004)

B.A., Brown University; M.A., Ph.D., University of Wisconsin

Tona J. Hangen, Associate Professor, Department Chair (2008)

B.S., Massachusetts Institute of Technology; Ph.D., Brandeis University

Tanya Mears, Assistant Professor (2010)

B.S., Tuskegee University; M.A., Ph.D., University of Massachusetts, Amherst

Philosophy Department

Henry C. Theriault, Professor of Philosophy (1998)

B.A., Princeton University; Ph.D., University of Massachusetts

Kristin Waters, Professor of Philosophy

A.B., Bard College; M.A., Ph.D., University of Connecticut

Psychology Department

Lori J. Dawson, Professor (1995)

B.A., Suffolk University; M.A. Ph.D., State University of New York, Albany

Marc J. Wagoner, Associate Professor (2004)

B.A., Morehouse College; Ph.D., University of Minnesota

Sociology Department

Sonya Conner, Assistant Professor (2011)

B.S., University of Louisiana, Lafayette; M.A., Ph.D., University of Oklahoma

Michelle Corbin, Assistant Professor (2011)

B.S., Western Michigan University; M.S. Eastern Michigan University;

Ph.D., University of Maryland

Francisco Vivoni, Assistant Professor (2014)

Ph.D., University of Illinois, Sociology

Urban Studies Department

Madeline Otis Campbell, Assistant Professor (2012)

B.A., M.A., Brown University; M.A., Ph.D., University of California, Davis

Thomas E. Conroy, Assistant Professor, Department Chair (2010)

B.A., Salem State University; M.A., Ph.D., University of Massachusetts, Amherst

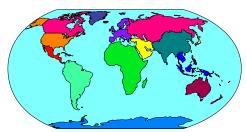
Timothy E. Murphy, Visiting Assistant Professor (2013)

B.A., Indiana; M.A., Ph.D., University of California, Davis

Visual and Performing Arts

Sam O'Connell, Associate Professor, Theatre (2010)

B.A., M.A., Washington University; Ph.D., Northwestern University



Global Studies

Global Studies Concentration

Advisory Board

Joseph Baratta Patricia Benjamin

Madeline Campbell Carlos Fontes

Aldo Garcia Guevara Timothy Murphy

Katey Palumbo Margarita Perez

Ana Perez-Manrique

Faculty

Joseph P. Baratta, Associate Professor of History and Political Science (1999)

B.A., St. John's College; M.A., M.A.T., Ph.D., Boston University

Patricia A. Benjamin, Associate Professor (2001)

B.A., University of Oregon; M.L.S., University of Maryland; Ph.D., Clark University

Jacqueline R. Brennan, Associate Professor (1987)

B.S., University of Connecticut; M.A., Assumption College; M.S., Boston University

Erika Briesacher, Assistant Professor (2012)

B.A., Illinois Wesleyan University; M.A., Southern Illinois University, Edwardsville; Ph.D., Kent State University

Madeline Otis Campbell, Assistant Professor (2012)

B.A., M.A., Brown University; M.A., Ph.D., University of California, Davis

Anne M. Falke, Professor of Chemistry (1997)

B.A., University of Rhode Island; Ph.D., University of New Hampshire

Sue Fan Foo, Associate Professor of Education (2004)

M.Ed., Ed.D., University of Cincinnati

Carlos Fontes, Professor of Communication (1996)

B.A., Escola Superior de Meios de Communicacao Social, Lisbon;

M.A., Ph.D., University of Massachusetts, Amherst

Ellen F. Fynan, Professor of Biology (1993)

B.S., University of Maine; Ph.D., Thomas Jefferson University

Suzanne Gainer, Professor of Communication (2001)

B.A., St. Vincent College; M.F.A., Rhode Island School of Design

Aldo V. Garcia Guevara, Associate Professor of History (2006)

B.A., University of North Carolina, Asheville; M.A., Ph.D., University of Texas, Austin

Michael Gesin, Assistant Professor of History (2007)

B.A., Worcester State College; M.A., Ph.D., Brandeis University

Antonio Guijarro-Donadiós, Assistant Professor (2014)

B.A., Universidad Complutense de Madrid, Spain; M.A. Salford University, England;

M.A., Ph.D. University of Connecticut

Judith Jeon-Chapman, Professor of French, Spanish and World Languages B.A., College of St. Benedict; M.A., Ph.D. University of Washington, Seattle

Matthew Johnsen, Associate Professor of Sociology (2007)

A.B., Dartmouth College, Hanover, NH; M.S., New Hampshire College, Manchester;

Ph.D., North Carolina State University, Raleigh

Margaret E. Kerr, Professor of Chemistry (2000)

B.S., University of Maine; Ph.D., Wesleyan University

Harry Lo, Assistant Professor of Business Administration and Economics Diploma in Economics, New Asia College; M.A., Ph.D., University of Georgia

Augustus N. Luparelli, Professor of Business Administration

B.A., Fitchburg State College; M.A., Worcester State College;

Ph.D., University of Connecticut

Syamak Moattari, Assistant Professor (2014)

Ph.D., Boson University, International Health

Timothy E. Murphy, Visiting Assistant Professor (2013)

B.A., Indiana; M.A., Ph.D., University of California, Davis

Steven J. Oliver, Associate Professor of Biology (2003)

B.A., University of Montana; Ph.D., Boston University

Bonnie Orcutt, Professor of Economics (on leave)

B.S., Worcester State College; M.A., Ph.D., Clark University

Rodney Oudan, Associate Professor of Business Administration (2005)

CIM, Chartered Institute of Marketing; PGCert, University of the West Indies, (UWI);

M.M., Cambridge College; D.B.A., Nova Southeastern University

Margarita Perez, Professor of Education (1999)

B.A., Mount Holyoke; M.A., Ed.D., Teachers College, Columbia University

Ana Pérez-Manrique, Associate Professor of Spanish and World Languages (2006)

B.A., Universidad de Málaga, Spain; M.A., University of South Carolina;

Ph.D., Florida State University

Maureen E. Power, Professor of Urban Studies (1975)

A.B., Emmanuel College; M.S.W., Ph.D., Brandeis University

Josna E. Rege, Professor of English (2006)

B.A., Harvard University; M.A., Ph.D., University of Massachusetts, Amherst

MaryLynn D. Saul, Professor of English

B.S., M.A., Ph.D., Ohio State University

Courtney D. Schlosser, Professor of Philosophy

A.B., George Washington University; Ed.M., Ed.D., Boston University

Daniel C. Shartin, Professor of Philosophy (1993)

B.A., M.A., Ph.D., University of California, Los Angeles

Seth Surgan, Associate Professor (2006)

B.A., University of North Carolina, Chapel Hill; M.A., Ph.D., Clark University

Henry C. Theriault, Professor of Philosophy (1998)

B.A., Princeton University; Ph.D., University of Massachusetts

Francisco Vivoni, Assistant Professor (2014)

Ph.D., University of Illinois, Sociology

Catherine Wilcox-Titus, Assistant Professor (2004)

B.A., University of Toronto; M.S., Simmons College; M.A., Ph.D., Boston University

Kristin Waters, Professor of Philosophy

A.B., Bard College; M.A., Ph.D., University of Connecticut

Karen Woods Weierman, Professor of English (2000)

B.A., Georgetown University; Ph.D., University of Minnesota

Sharon R. Yang, Professor of English (1999)

B.A., University of Massachusetts, Lowell; M.A., Clark University;

Ph.D., University of Connecticut

Janice G. Yee, Professor of Economics (2007)

B.A., University of Massachusetts, Dartmouth; M.A., Ph.D., Clark University

Sara Young, Assistant Professor (2014)

Ed.D., University of Massachusetts, Amherst, Teacher Education

Barbara Zang, Professor of Communication (2002)

B.S., University of Missouri; M.A., University of Toledo; M.A., University of Missouri;

Ph.D., Indiana University

Global Studies is an interdisciplinary academic area that draws from a wide range of disciplines in the Humanities, the Sciences and the Arts to examine global processes and events and their effects at a local level. For the last two decades the world has been undergoing a sustained reorganization along economic, social, political, cultural, technological and environmental lines that cut across national boundaries. WSU has also experienced an increased global connectivity, integration and interdependence, and witnessed the emergence of planet wide issues such as climate change, poverty, new technologies and entrenched wars. In response to these real world events, Global Studies has emerged as a dynamic interdisciplinary academic field to study the forces shaping these complex processes.

The mission of the Global Studies concentration is to prepare students to understand international affairs and provide them with a solid background for decision-making in an increasingly interdependent world community. Students are encouraged to connect their knowledge of a particular region of the world to larger transnational processes and to examine their identities in a global frame. The interdisciplinary concentration in Global Studies will give students added skills to function in a global market and the depth of understanding necessary to be responsible citizens of planet Earth.

Requirements for a Concentration in Global Studies: 15 credits

Students are required to take a total of five Global Studies courses starting with GL 150 Introduction to Global Studies (Required) plus four electives chosen from across various disciplines. One of the elective courses has to be at a 200 level and another at either a 300 or 400 level. No more than two courses can be counted from the same department. Students are strongly encouraged to elect a world language course other than English and/or a study abroad course that meets the Global Studies criteria.

Global Studies Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

Courses marked with an asterisk (*) are approved for the concentration only during those semesters when they are listed under Global Studies in the Course Schedule

GL 150 Introduction to Global Studies

This course analyzes the forces reorganizing the planet along economic, social, political, cultural, technological and environmental lines across national boundaries.

Offered every year, 3 credits.

GL/AB 210 Intermediate Arabic I

LASC-Thought, Language, and Culture

Introduction in advanced rules of Arabic grammar and verb system, and in advanced writing and reading. Offered every year. 3 credits.

*GL/AR 112 World Art Survey I

LASC-Creative Arts; Thoughts, Language and Culture

Surveys the world's major cultural achievements in the visual arts from the prehistoric period to ca1400. Offered every year. 3 credits.

*GL/AR 113 World Art Survey II

LASC-Creative Arts; Thoughts, Language and Culture

Major cultural achievements in the visual arts from ca1400 to the early twentieth century. Offered every year. 3 credits.

*GL/BA 440 International Business

Prerequisites: BA 316, BA 318

Focuses upon the international dimensions of management, finance, and marketing as they impact corporate policy and strategy.

Offered every 2 years. 3 credits.

GL/BA 494 International Marketing

Prerequisites: EC 120, BA 318

With the rapid and continuous changes in a global environment this course will examine the complex issues in international marketing faced by today's manager.

Offered every year. 3 credits.

GL/BI 112 Diseases and Mankind

Diseases of ancient and modern man; the impact on history, religion, science, art and philosophy. Offered every year. 3 credits.

GL/BI 114 Plants and Human Affairs

LASC-Global Perspectives; Natural Systems and Processes

Man's dependence upon plants and their influence on civilization and its art, religions, literature, folklore, medicine, and human behavior.

Offered every 2 years. 3 credits.

*GL/BI 199 Selected Topics in Biological Sciences

Each topic is a lecture and/or laboratory course in a selected area of the biological sciences presented by a departmental instructor. Topics will be announced in advance.

Offered every year. 1-4 credits.

*GL/CH 191 Selected Topics

Paper or Plastic? A lecture or laboratory course designed to introduce a selected topic(s) of interest. Offered every 3 years. 1-4 credits.

GL/CH 320 Environmental Chemistry

Prerequisites: CH 120, CH 121 and CH 111 or CH 201

Chemistry of the atmosphere, soil, and natural water systems, air and water pollution water treatment, hazardous wastes and pollution control.

Offered every 2 years. 3 credits.

GL/CM 270 Media and Globalization

This course examines the emergence of global media and its impact on the development of a global world. Offered every 2 years. 3 credits.

*GL/CM 350 Intercultural Communication

Prerequisite: CM 100

Introductory communication theory and practice across cultural groups defined by race, ethnicity, gender, religion,

age, nationality, politics and economics. *Offered every 2 years. 3 credits.*

GL/CM 390 Alternative Communication

Prerequisite: CM 103

This course introduces students to the theory and practice of alternative communication and its relationship with culture and politics.

Offered every 3 years. 3 credits.

*GL/CM 410 Seminar: Topics in Communication

Prerequisites: Permission of Instructor

Amazon Expedition; Oil, and Indigenous Survival. This course engages students in advanced examination of emerging communication topics and of topics in a faculty's area of expertise.

Offered every 2 years. 3 credits.

*GL/EC 206 Urban Economics

Prerequisites: EC 110; EC 120

The theory and policy of the growth and development of metropolitan areas; some of the policy-related problems discussed are poverty, residential and commercial land use, and traffic congestion.

Offered every 2 years. 3 credits.

GL/EC 210 Current Economic Issues

Prerequisites: EC 110; EC 120

This course is designed to connect economic knowledge and theory acquired at the introductory level to current economic issues and policy. National and international topics of importance will be considered. For example, pollution, trends in productivity, profitability and distribution, debt and deficits, patterns of investment, trade, and globalization and the economic issues of race, gender and poverty may be covered.

Offered every year. 3 credits

GL/EC 301 Economic Development

Prerequisites: EC 110, EC 120

A survey of contemporary economic theories concerning less developed countries; social, cultural, and political forces shaping the development of such countries are also investigated.

Offered every 3 years, 3 credits

*GL/EC 307 International Finance

Prerequisites: EC 110, EC 120

Study of how international trade and investment is financed in a world of floating, fixed and managed exchange rate systems.

Offered every 2 years. 3 credits.

*GL/EC 308 International Trade

Prerequisites: EC 110, EC 120

Reasons why nations gain by spatial specialization and exchange with other countries. Analysis of the mechanism by which international equilibrium is restored. Study of trade and foreign exchange policies.

Offered every 2 years. 3 credits.

GL/ED 271 International and Comparative Education

LASC-Global Perspectives, Individual and Community Well-Being

This course compares the educational policies to practices and outcomes to two or more countries. Offered every year. 3 credits.

GL/EN 132 World Literature

LASC-Global Perspectives; Thought, Language, and Culture; Diversity Across the Curriculum

Study of selected works, movements, and themes in world literature, ancient and/or modern, from Asia, Africa, Europe, Oceania, and the Americas. .

Offered every year. 3 credits.

GL/EN 167 Literature and Human Rights

LASC-Global Perspectives; Diversity Across the Curriculum, Human Behavior and Social Processes

An analysis of international creative writing dealing with the subject of human rights. Resource persons from different fields will be utilized.

Offered every 3 years. 3 credits.

*GL/EN 169 Ethnic Literature in the U.S.

LASC—Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum Study of ethnic Literature in the U.S., focusing on African-American, Asian-American, Latino, and Native American writers Offered every year. 3 credits

GL/EN 240 Survey of Postcolonial and Transcultural Literature

LASC-Global Perspectives

Prerequisite: EN 102

Introduction to literatures in English from formerly colonized countries in Africa, Asia, and the Caribbean, and from the postcolonial diaspora.

Offered every year. 3 credits.

GL/EN 348 Postcolonial Women's Writing

LASC-Global Perspectives

Prerequisite: EN 102

Writing by women from colonized and formerly colonized countries on local and global issues shaping women's lives and creative expression.

Offered every 3 years. 3 credits.

*GL/EN 450 Special Topics in English

Prerequisite: EN 102

Specific content will vary in response to particular student and faculty interests.

Offered every year. 3 credits.

GL/FR 210 Intermediate French I

LASC-Thought, Language, and Culture; Global Perspectives

Prerequisite: FR 102 or equivalent

Review of fundamentals and presentation of more complex grammatical features; development of conversational skills; selected readings, written and oral composition.

Offered every year. 3 credits.

GL/FR 211 Intermediate French II

LASC-Thought, Language, and Culture; Global Perspectives

Prerequisite: FR 210 or equivalent

Continuation of FR 210.

Offered every year. 3 credits.

FR 346 Twentieth Century French Literature

LASC-Global Perspectives; Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Major novelists, dramatists, and poets from the turn of the century to the present. Conducted in French. Offered every 3 years. 3 credits.

*GL/FR 401 Seminar in French Studies

Prerequisite: For advanced students

Francophone Literature. Special topics in French language, literature or civilization.

Offered every 3 years. 3 credits.

GL/GE 102 Human Geography

LASC-Global Perspectives; Human Behavior and Social Processes

Introduction to human geography, emphasizing globalization, human-environment relations and spatial patterns of population, development, economics, politics, urbanization and culture.

Offered every year. 3 credits.

GL/GE 110 World Regional Geography I

LASC-Global Perspectives; Human Behavior and Social Processes

Analysis of the physical, cultural and economic regions of Eurasia.

Offered every year. 3 credits.

GL/GE 111 World Regional Geography II

LASC-Global Perspectives; Human Behavior and Social Processes

Analysis of the physical, cultural and economic regions of Africa, Oceania and the Americas.

Offered every year. 3 credits.

GL/GE 255 Geography of Africa

Prerequisite: ONE of the following: GE/GL 102, GE/GL 111, GL 150, SO 100, SO 110, UR 101 or permission of instructor

Analysis of the physical and human geography of Africa.

Offered every year. 3 credits.

GL/GE 258 Global Environmental Change

Introduction to the science, political economy and ethics of global environmental change.

Offered every year. 3 credits

GL/GE 285 Sustainable Communities

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Prerequisite: ONE of the following: GE/GL 102, GL 150, EC 110, EC 120 or permission of instructor

Exploration of changes in U.S. and global economic landscape, 1970 to present. Approaches to sustainable economic development.

Offered every year. 3 credits.

GL/GE 308 Environment and Development

Prerequisite: GE 258 or permission of instructor

The global ecology of rich and poor. Environmental implications of poverty, economic development, mass consumption, globalization and demographic change.

Offered every 3 years. 3 credits.

GL/HC 202 Introduction to Global Health

*GL/HC 403 Department Workshop in Community Health

The subject matter of this course will be reflective of the changing issues within the field of community health.

Offered every semester. 3 credits

GL/HE 390 Environmental Health

Prerequisite: HE 100

Examination of the issues affecting the environment and their impact on individual and global health.

Offered every year. 3 credits.

GL/HI 103 World Civilization I

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from ancient times to 1500

Offered every year, 3 credits.

GL/HI 104 World Civilization II

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from 1500 to 1914

Offered every year. 3 credits.

GL/HI 105 World Civilization III

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from 1914 to the present.

Offered every year. 3 credits

*GL/HI 112 US History II

LASC-Constitutions; United States and Its Role in the World

From the Civil War era to the present. Topics include politics, society, economy, and culture in modern America. Offered every year. 3 credits.

GL/HI 191 Special Topics in History

History of Child Labor. This introductory level course will cover topics in history which are of special interest to first-year students.

Offered every year. 3 credits

GL/HI/PO 201 International Relations I

LASC - Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, and EN 102

Theory and practice of international security (realism and internationalism) and international political economy (liberalism and protectionism) in their historical context.

Offered every year. 3 credits.

GL/HI/PO 202 International Relations II

LASC-Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, EN 102

The promise and problems of globalization (spread of free market capitalism and political democracy). Offered every year. 3 credits.

GL/HI 205 Native America

This survey covers the broad sweep of Native American history and focuses on the encounter between American and European civilizations and how Native culture has adapted through the centuries.

Offered every 2 years. 3 credits.

GL/HI 208 American Immigrant History

Survey of immigration. Topics such as old-world background, impact on US, nativism, cultural pluralism, religion, mobility, family and politics.

Offered every year. 3 credits.

GL/HI 214 Modern Latin America

The people of Latin America from independence to the present, focusing on race, sex and power.

Offered every year. 3 credits.

*GL/HI 216 Economic History of the US

An introduction to United States economic development; particular attention will be paid to industrialization and the labor force.

Offered every year. 3 credits

GL/HI 221 African-American History I

The people of African descent from the emergence of the slave trade to the Civil War, focusing on race, gender, and power.

Offered every year. 3 credits.

GL/HI 230 Nicaragua, the US and the World

LASC-United States and Its Role in the World; Diversity Across the Curriculum

The course will examine the impact of globalization and imperialism on the lives of Nicaraguans at home and in their diasporic communities.

Offered every year. 3 credits.

GL/HI 249 US Labor History I

The relationship between workers, their employers, and the surrounding community between 1815 and World War II. Offered every 2 years. 3 credits.

GL/HI 261 Middle East History I

LASC-Global Perspectives; Thought, Language, and Culture

The rise and expansion of Islam: the Caliphate, Muslim religion, civilization, and its impact on the West, decline of medieval Islam.

Offered every 2 years. 3 credits.

GL/HI 262 Middle East History II

LASC - Global Perspectives; Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 102

The Ottoman Empire: expansion, institutions, impact on Europe, decline of the Empire.

GL/HI 263 US - Middle East Relations

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

Course will discuss the influence the Middle East has had on US policy since US independence to the present. Offered every 2 years. 3 credits.

*GL/HI 271 Women and Work in Historical Perspective

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

This course undertakes to examine women's work conditions and the opposition to its continuation in Europe and America, 16th-19th centuries.

Offered every 2 years. 3 credits

*GL/HI 274 Sex, Marriage and the Family in Historical Perspective

LASC-Thought, Language, and Culture; Diversity Across the Curriculum

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

This course will undertake a study of courtship, marriage and family life-cycle patterns in England and America during the 19th century.

Offered every 2 years. 3 credits.

GL/HI/PO 323 Empire

Prerequisite: Hi 103 and HI 104

Theories and models of colonization, the reaction of colonized peoples, and the way historians analyze imperialism from 1400 to 1920's.

from 1400 to 1920's.

Offered every three years. 3 credits.

Prerequisite: HI 104 or HI 105 or HI 111 or HI 112 or PO 101 or HI 261 or HI 314

Discusses governments and politics of eastern Arab countries, Turkey, Iran, and Israel. International rivalries in the area are also discussed.

Offered every year. 3 credits.

GL/HI 333 Women in Latin America

GL/HI/PO 330 Politics of the Middle East I

Prerequisite: HI 233 or equivalent

Examines the roles of women in diverse societies including Mexico, Brazil and Caribbean nations. Emphasis on the modern period.

Offered every 3 years. 3 credits.

GL/HI 350 Native American Women

Prerequisite: HI 205 or equivalent

Examines Indian women from the time of European contact to the modern era. Emphasizes culture, community and arenas of power.

Offered every 3 years. 3 credits.

*GL/HI 450 Special Topics in History

Selected areas of interest to students and instructors.

Offered every year. 3 credits.

GL/MU 140 World Music

LASC-Creative Arts

An introduction to music of various cultures and continents including music of Africa, Asia, Latin America, The Middle East and India.

Offered every year. 3 credits.

GL/OT 411 International Service Learning

Instruction in occupational. therapy methods with an experiential component providing intervention to an underserved population in a foreign country.

Offered every year. 2 credits.

GL/PH 150 Women in Western Ideas

Investigates the concept of woman from ancient Greece to the present.

Offered every 2 year. 3 credits.

GL/PH 170 Ancient Chinese Philosophies in a Cultural Perspective

LASC-Global Perspectives; Thought, Language, and Culture

Ancient Chinese philosophies of Taoism, Confucianism, Buddhism, and neo-Confucianism in the context of contemporary developments in China; Communism, Capitalism, and Western influences considered. Offered every year. 3 credits.

GL/PH 172 Asian Philosophies and Contemporary Perspectives

Studies the philosophies of India, China, Japan, and the vitality of ancient traditions in a time of cultural change: Buddhism, Taoism, Confucianism, Jainism, Hinduism and Islam.

Offered every year. 3 credits.

GL/PH 177 Latin American Philosophies

LASC—United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum Prerequisite: EN 102

Will analyze the political, economic, social, and cultural impact of the interactions between and among the governments and people of the US and Latin America.

Offered every year. 3 credits.

GL/PH 230 Religious Philosophies, East and West

An examination of the major religious systems, both oriental and occidental.

Offered every 2 years. 3 credits.

GL/PH 241 Genocide and Human Rights

LASC-Global Perspectives; United States and Its Role in the World

This course treats the ethical, political, and other dimensions of systematic mass violence through case studies and general theoretical analyses.

Offered every 3 years. 3 credits.

GL/PH 250 Global Feminism

LASC-Global Perspectives; Thought, Language, and Culture

GL/PH 251 Mass Violence Against Women

Investigates the theoretical underpinnings of women's movements for equal rights around the globe.

Offered every 2 years. 3 credits.

LASC-Global Perspectives; United States and Its Role in the World

A philosophy-based, interdisciplinary course examining historical and contemporary mass violence against women. Typically offered at least every three years.

*GL/PH 290 Advanced Special Topics in Philosophy

A treatment of current or special topics for students beyond the introductory level.

Offered every year 3 credits.

GL/PS 365 Cultural Psychology

LASC—Thought, Language, and Culture; Human Behavior and Social Processes; Writing Across the Curriculum Prerequisite: PS 101. EN 102. PS 210

This course addresses the role culture plays in human psychological processes and approaches to researching cultural aspects of human action.

Offered every year. 3 credits.

GL/SO 110 Cultural Anthropology

GL/SO 270 Social Theory

GL/SO 299 Sustainable Communities

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Prerequisite: ONE of the following: GE/GL 102, GL 150, EC 110, EC 120 or permission of instructor

Exploration of changes in U.S. and global economic landscape, 1970 to present. Approaches to sustainable economic development.

Offered every year. 3 credits.

GL/SO 425 Global Development

LASC-Global Perspectives; Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

This course gives an overview of the field of development and processes of development and underdevelopment in developing countries.

Offered every 2 years. 3 credits.

GL/SP 323 Advanced Conversational Spanish I

LASC-Thought, Language, and Culture

Prerequisite: Two SP 200 level courses.

Intensive conversational practice for improving intonation, pronunciation, fluency, review of language usage. This course is for <u>non-native</u> Spanish speakers only.

GL/SP 324 Advanced Conversational Spanish II

LASC-Thought, Language, and Culture

Prerequisite: SP 323 or equivalent.

Continuation of SP 323.

Offered every year. 3 credits.

GL/SP 332 The Hispanic World Today

LASC-Global Perspectives; Diversity Across the Curriculum

Prerequisite: Two SP 200 level courses

Social, economic and political institutions; value systems and customs. Conducted in Spanish.

Offered every 2 years. 3 credits.

GL/SP 333 The Hispanic Presence in the United States

Prerequisite: Two SP 200 level courses

Sociocultural study of Hispanics in the United States, with a focus on major contemporary issues. Conducted in

Spanish.

Offered every 2 years. 3 credits.

GL/SP 342 Introduction to Latin American Literature I

Prerequisite: SP 321, SP 323, SP 324 or instructor's approval.

Study of the literature produced in Latin America from the pre-Columbian era until the first wars of independence. Offered every 3 years. 3 credits

GL/SP 349 Spanish-American Literature

Prerequisite: SP 321, SP 323, SP 324 or instructor's approval.

Representative works from South and Central American authors from the colonial period to the present.

Offered every 3 years. 3 credits.

*GL/SP 401 Advanced Study: Special Topics

Prerequisite: For advanced students

Gender, Identity and Representation in Latin America. Special topics in language, literature, civilization or field work of mutual interest to student and instructor.

Offered every 3 years. 3 credits.

GL/UR 191 Sustainable Communities

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Prerequisite: ONE of the following: GE/GL 102, GL 150, EC 110, EC 120 or permission of instructor

Exploration of changes in U.S. and global economic landscape, 1970 to present. Approaches to sustainable economic development.

Offered every year. 3 credits.

*GL/UR 201 Analysis of Urban Systems

LASC-Human Behavior and Social Processes

Analysis of activities, programs, and policies designed to sustain and enhance the livability of individuals in an urban environment.

Offered every 2 years. 3 credits.

*GL/UR 213 Human Identity and the Urban Environment

Prerequisite: UR 101

Study of factors affecting identity in contemporary urban settings including race, ethnicity, class, age, and sex categories and roles.

Offered every year. 3 credits.

GL/UR 290 Gender and the City

LASC - Global Perspectives; Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

Exploration of ways in which gender, both male and female, structures responses of individuals to urban life and spaces.

Offered every 2 years. 3 credits.

GL/UR 353 Aging in a Global Society

LASC-Global Perspectives; Diversity Across the Curriculum

Explores the ramifications of unrelenting Global Aging, focusing on the questions, what are old people for and the connections across generations.

GL/UR 360 Environmental Systems and Public Policy

Prerequisite: UR 101 or permission of instructor

Examination of urban ecosystems, focusing on land uses designed to effectively utilize water, open space and other natural resources.

Offered every 2 years. 3 credits.

*GL/UR 421 Selected Topics in Urban Studies

Prerequisite: UR 101

In-depth examination of topical issues challenging the intellectual and creative interests of advanced students in urban studies.

Offered every year. 3 credits.

*GL/UR 422 Selected Topics in Gerontology

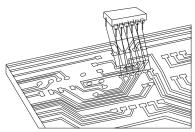
Prerequisite: Consent of instructor

In-depth examination of topical issues in gerontology which afford the advanced student the opportunity to pursue gerontological research.

Offered every 2 years. 3 credits.

GL 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.



Information Technology Minor in Information Technology

The Information Technology minor is an interdisciplinary minor that gives students the opportunity to develop skills and capabilities for the effective use of information technology in their discipline. This minor is available for all non-Computer Science majors and is designed to address information technology needs and career interests regardless of major. Please see your faculty advisor for more information.

To obtain a minor in information technology, students need to complete six (6) courses for a total of 18+ credits.

Required Course:

CS 101 Basics of Computer Science

Two Courses from Group I: Courses in this group will discuss the representation and manipulation of data in digital form. This may include the conversion process of the data from a form outside the computer, the issues and trade-offs involved in developing a representation, and the algorithms used for the manipulation and transformation of data.

Two courses from Group II: Courses in this group involve intensive, discipline-specific use of computers (beyond email, word processing, basic spreadsheets, presentation software and web browsing).

One course from Group III: Courses in this group will discuss information technology and its impact on society. At least 1/3 of the course content should relate to information technology.

The list of courses under each of the above three groups varies from semester to semester. Students are strongly encouraged to contact the Information Technology minor coordinator before registering for courses.



Liberal Studies

Director

Barbara Zang, Professor of Communication (2002), Director of Liberal Studies Program (2015)

B.S., University of Missouri; M.A., University of Toledo; M.A., University of Missouri; Ph.D., Indiana University

The Liberal Studies major provides students a flexible, customized alternative to existing programs of study while fostering academic excellence in interdisciplinary learning. Liberal Studies majors may earn either the bachelor of arts or the bachelor of science degree.

As an individualized program, the Liberal Studies major prepares students for life after college through a broad-based liberal arts education and the fulfillment of these overarching learning outcomes: interdisciplinary learning; career development; entrepreneurship and self-advocacy; and engaged citizenship.

The Liberal Studies major serves incoming first-year students who have a clear sense of their academic goals and want to craft their own major of study; transfer students who want to maximize the use of previously earned credits by designing their own major; students who have not selected a major of study or who decide not to complete their initial intended major; and adult students who may already be working in their desired field but seek a degree completion program.

Admission requirements: Students interested in the Liberal Studies major must meet the standard admissions criteria for Worcester State University. Incoming first-year and transfer students must meet with the director of Liberal Studies once they are admitted to to the university to discuss a program of study. These students will be required to enroll in LS 190 Introduction to Liberal Studies. During this course they will submit a written plan of study to the director with a rationale for the selection of the areas of study. Once approved, this plan of study becomes the student's degree audit.

Current Worcester State students who want to change from undeclared status or from other majors must also meet with the director of Liberal Studies before changing majors. Those who want to pursue a Liberal Studies major will be required to enroll in LS 190 Introduction to Liberal Studies. During this course they will submit a written plan of study to the director with a rationale for the selection of the areas of study.

This development of a program of study and review process allow for important conversations about a student's academic and professional goals, the best use of transfer credits, and the selection of the two primary areas of study.

Standards for Minimum Academic Performance in the Liberal Studies major: Liberal Studies majors must meet the requirements for graduation as specified in the Undergraduate Catalog. These include the completion of a minimum of 120 credits with a 2.0 cumulative grade point average and a minimum 2.0 grade point average in the two areas of study.

Requirements for the Liberal Studies major: In addition to meeting the Liberal Arts and Sciences Curriculum (LASC) requirements for all undergraduates, which is 40 credits, the Liberal Studies major will complete a minimum of 39 credits from two areas of study.

The first area (18-24 credits) must be completed at Worcester State University in one of the University's established minors.

The second area (15 or more credits) may be either another of the University's established minors, a concentration, or a self-designed cluster of classes. A maximum of 18 credits may be transferred in to this second area of the major.

At least 15 credits in the Liberal Studies student's two areas must be at the 300-level or above. The program of study plan must reflect that at least 51 percent of the major credits are taken at Worcester State University. To receive a baccalaureate degree from Worcester State University, a student must complete 30 of the last 40 credits at Worcester State University.

In addition, all Liberal Studies students must take:

LS 190: Special Topic—Introduction to Liberal Studies (3-4 credits)

LS 490: Liberal Studies Capstone (3 credits)

Two optional courses are designed to allow for flexibility in the major and to provide a deeper understanding of an interdisciplinary education:

LS 290: Special Topic—Intermediate Liberal Studies (3-4 credits)

LS 390: Special Topic—Advanced Liberal Studies (3-4 credits)

Each Liberal Studies major will be required to maintain an e-portfolio of work produced in the student's various courses, beginning in LS 190 and culminating in LS 490.

Evening students: Those wishing to declare a Liberal Studies major may, depending on the chosen areas of study, complete the required courses in the evening or during the summer.

Honors program: Liberal Studies majors with a 3.3 GPA or higher who wish to graduate with honors may add a 3-credit research project, creative work/portfolio, or thesis to the individualized plan of study.

Course Descriptions

LS 190 ST Introduction to Liberal Studies

A special topics course that introduces students to interdisciplinary scholarship and learning as well as studentinitiated/directed learning.

Offered every year. 3-4 credits.

LS 290 ST Intermediate Liberal Studies

Focuses on a particular area of study that requires students to show mastery of the topic and a critical understanding of interdisciplinary learning and research methods.

3-4 credits.

LS 390 ST Advanced Liberal Studies

This course is organized around a particular subject area or research methodology/problem. Students engage in joint or individual scholarship related to the course topic.

3-4 credits.

LS 401 Liberal Studies Honors Thesis

Pre-reg. At least 30 credits toward the Liberal Studies major.

The honors thesis represents an advanced research project culminating in a written liberal arts thesis that extends a student's Liberal Studies course of study.

3 credits.

LS 402 Liberal Studies Honors Research

Pre-reg. At least 30 credits toward the Liberal Studies major.

The honors scientific or social scientific research project includes a written paper reporting on the project's results and extends to an advanced level a student's Liberal Studies course of study.

3 credits

LS 403 Liberal Studies Honors Creative Project/Portfolio

Pre-reg. At least 30 credits toward the Liberal Studies major.

The honors creative work/portfolio extends to an advanced level a student's Liberal Studies course of study in the areas of the visual arts, theater, music, dance, literature, filmmaking, or another area of creative expression. 3 credits.

LS 490 Capstone/Senior Research in Liberal Studies

Pre-req. At least 30 credits toward the Liberal Studies major.

This course provides an opportunity for students to compile evidence and reflect on the courses and independent work comprising their Liberal Studies major. Students will be expected to develop a cohesive narrative of their course of study.

3 credits.





Advisory Board

Madeline Otis Campbell, Assistant Professor of Urban Studies (2012) B.A., M.A., Brown University; M.A., Ph.D., University of California, Davis

Sonya Conner, Assistant Professor of Sociology (2011)

B.S., University of Louisiana, Lafayette; M.A., Ph.D., University of Oklahoma

Michelle Corbin, Assistant Professor of Sociology (2011)

B.S., Western Michigan University; M.S. Eastern Michigan University; Ph.D., University of Maryland

Lori Dawson, Professor of Psychology (1995)

B.A., Suffolk University; M.A., Ph.D., State University of New York, Albany

Suzanne Gainer, Professor of Communication (2001)

B.A., St. Vincent College; M.F.A., Rhode Island School of Design

Charlotte Haller, Associate Professor of History (2004)

B.A., Brown University; M.A., Ph.D., University of Wisconsin

Champika K. Soysa, Professor of Psychology (2003)

B.A., Mount Holyoke College, M.A., Ph.D., Clark University

Heather Treseler, Assistant Professor of English (2011)

B.A., Brown University; Ph.D. University of Notre Dame

Kristin Waters, Professor of Philosophy (1999)

A.B., Bard College; M.A., Ph.D., University of Connecticut

Faculty

Patricia A. Benjamin, Associate Professor of Geography (2001)

B.A., University of Oregon; M.L.S., University of Maryland; Ph.D., Clark University

Madeline Otis Campbell, Assistant Professor of Urban Studies (2012)

B.A., M.A., Brown University; M.A., Ph.D., University of California, Davis

Alta Carroll, Professor of Communication (1998)

B.A., Texas A&M University; M.S., Columbia University; Ph.D., Purdue University

Sonya Conner, Assistant Professor of Sociology (2011)

B.S., University of Louisiana, Lafayette; M.A., Ph.D., University of Oklahoma

Michelle Corbin, Assistant Professor of Sociology (2011)

B.S., Western Michigan University; M.S. Eastern Michigan University;

Ph.D., University of Maryland

Lori Dawson, Professor of Psychology (1995)

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Anne M. Falke, Professor of Chemistry (1997)

B.A., University of Rhode Island; Ph.D., University of New Hampshire

Carlos Fontes, Professor of Communication (1996)

B.A., Escola Superior de Meios de Communicacao Social, Lisbon;

M.A., Ph.D., University of Massachusetts

Julie Frechette, Professor of Communication(1999)

B.A., University of New Hampshire; M.A., Ph.D., University of Massachusetts

Maria G. Fung, Associate Professor of Mathematics (2008)

B.A., M.S., Ph.D., Cornell University

Suzanne Gainer, Professor of Communication (2001)

B.A., St. Vincent College; M.F.A., Rhode Island School of Design

Aldo V. Garcia Guevara, Associate Professor of History (2006)

B.A., University of North Carolina, Asheville; M.A, Ph.D., University of Texas, Austin

Anne W. Gathuo, Associate Professor of Urban Studies (2005)

B.Ed., Kenyatta University; M.B.A., University of Nairobi;

Grad Certificate, M.S., Ph.D., University of Massachusetts, Boston

Barbara Ann Giguere, Professor of Nursing (1980)

R.N., Worcester City Hospital School of Nursing; B.S., Worcester State College;

M.S., University of Connecticut; Ed.D., University of Massachusetts

Charlotte Haller, Associate Professor of History (2004)

B.A., Brown University; M.A., Ph.D., University of Wisconsin

Tona J. Hangen, Assistant Professor of History (2008)

B.S., Massachusetts Institute of Technology; Ph.D., Brandeis University

Judith Jeon-Chapman, Professor of French, Spanish and World Languages (1993)

B.A., College of St. Benedict; M.A., Ph.D. University of Washington, Seattle

Matthew Johnsen, Associate Professor of Sociology (2007)

A.B., Dartmouth College, Hanover, NH; M.S., New Hampshire College; Ph.D., North Carolina State University

Robyn Leo, Associate Professor of Nursing (1995)

R.N., Framingham Union Hospital; B.S., Worcester State College;

M.S.N., University of Connecticut

Tanya Mears, Assistant Professor of History (2010)

B.S, Tuskgee University; M.A., Ph.D., University of Massachusetts, Amherst

Christie B. Nigro, Professor of Music and Interdisciplinary Visual and Performing Arts

B.M., Syracuse University; M.M., Yale University;

Ph.D. University of Massachusetts, Amherst

Bonnie Orcutt, Professor of Economics (2003)

B.S., Worcester State College; M.A., Ph.D., Clark University

Margarita Perez, Professor of Education (1999)

B.A., Mount Holyoke; M.A., Ed.D., Teachers College, Columbia University

Josna E. Rege, Professor of English, Director of Global Studies (2006)

B.A. Harvard University; M.A., Ph.D. University of Massachusetts, Amherst

Mary Lynn D. Saul, Professor of English (1995)

B.S., M.A., Ph.D., Ohio State University

Daniel C. Shartin, Professor of Philosophy (1993) B.A., M.A., Ph.D., University of California, Los Angeles

Champika K. Soysa, Professor of Psychology (2003) B.A., Mount Holyoke College, M.A., Ph.D., Clark University

Henry C. Theriault, Professor of Philosophy (1998)

B.A., Princeton University; Ph.D., University of Massachusetts

Heather Treseler, Assistant Professor of English (2011) B.A., Brown University; Ph.D. University of Notre Dame

Marc J. Wagoner, Assistant Professor of Psychology (2004) B. A., Morehouse College; Ph.D. University of Minnesota

Karen Woods Weierman, Professor of English (2000)

B.A., Georgetown University; Ph.D., University of Minnesota

Catherine Wilcox-Titus, Assistant Professor (2004)

B.A., University of Toronto; M.S., Simmons College; M.A., Ph.D., Boston University

Sharon R. Yang, Professor of English (1999)

B.A., University of Massachusetts, Lowell; M.A., Clark University;

Ph.D., University of Connecticut

Adam Zahler, Associate Professor of Theatre (2007)

B.A., University of Vermont; M.F.A., University of Virginia

Barbara Zang, Professor of Communication (2002)

B.S., University of Missouri; M.A., University of Toledo; M.A., University of Missouri; Ph.D., Indiana University

Women's Studies is an interdisciplinary, academic course of study which lies at the intersection of the traditional academic disciplines such as literature, history, and philosophy in the humanities, psychology and sociology in the social sciences, as well as biology and geography in the natural sciences. Women's Studies has also found a prominent place in newer and interdisciplinary areas such as education, communications, urban studies and health sciences. Wherever gender issues are germane to a discipline, Women's Studies can be found, in part as a corrective to the centuries-long tendency of the traditional disciplines to focus mainly or exclusively on men and in part to bring new models of understanding to all areas of study.

The undergraduate concentration in Women's Studies brings together courses that focus on women and provide a critical analysis of gender and the related categories of class, race and other dimensions of social power. Gaining knowledge about women and men and understanding knowledge generated by Women's Studies helps students to move through a complex contemporary world.

Requirements for a Concentration in Women's Studies: 15 credits

The Women's Studies concentration is interdisciplinary; it uses a broad variety of academic disciplines in achieving its goals. Students are required to take a total of five Women's Studies courses from at least two disciplines. It is recommended that students take an introductory course such as WO/UR 103: Introduction to Women's Studies or WO/PH 150: Women in Western Ideas. Students are also encouraged to engage in some sort of specialized experience such as an independent study, a directed readings course leading to a major paper, a creative project or an internship. Students in Women's Studies may use courses to simultaneously count for a concentration in Women's Studies and other Worcester State University requirements.

Women's Studies Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

Courses marked with an asterisk (*) are approved for the concentration only during those semesters when they are listed under Women's Studies in the Course Schedule.

WO/CM 213 Gender and Media

LASC—Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisite: CM 100, EN 102

This course will examine how difference is socially constructed along gender lines, and will explore intersections of gender, identity and power.

Offered every 2 years. 3 credits.

*WO/CM 350 Intercultural Communication

Prerequisite: CM 100

Introductory communication theory and practice across cultural groups defined by race, ethnicity, gender, religion, age, nationality, geography, politics, and economics.

Offered every 2 years. 3 credits.

*WO/ED 330 Elementary Social Studies and Multiculturalism (only for Elementary Education Majors)

Prerequisite: must be admitted to stage 2 in the elementary education program.

Goals, curriculum, skills, teaching strategies in educating culturally diverse populations in a global context. Offered every year. 3 credits.

WO/EN 132 World Literature: Survey of Asian, African and Latin American Literature

LASC - Global Perspectives; Thought, Language, and Culture; Diversity Across the Curriculum

Representative poems, stories, plays, both ancient and modern, from Africa, Asia, Latin America. Offered every year. 3 credits.

WO/EN 172 Women and Literature

Explores basic issues and problems in literature by and about women.

Offered every 2 years. 3 credits.

WO/EN 174 Women Poets

A close reading and analysis of poetry written by women from a historical as well as contemporary feminist perspective. Offered every 3 years. 3 credits.

WO/EN 345 Women in American Literature

Prerequisite: EN 102

The American woman as she is found in fiction, non-fiction, and poetry.

Offered every 3 years. 3 credits.

*WO/FR 341 Introduction to French Literature

LASC-Thought, Language, and Culture; Diversity Across the Curriculum; Global Perspectives

Prerequisite: Two FR 200 level courses or equivalent

Major periods and genres of French literature: for majors and minors. Conducted in French.

Offered every 3 years. 3 credits.

WO/HC 234 Multiculturalism and Health

Examination of diverse ethnic/racial and cultural beliefs and practices affecting health and illness. Offered every 2 years. 3 credits.

WO/HE 210 Women's Health Issues

Interactive processes of politics, power, and media influence on research and public health policies; current health issues are addressed.

*WO/HI 209 Afro-American History

The role of blacks in American society from the seventeenth century to the present, emphasizing the institution of slavery.

Offered every 3 years. 3 credits.

WO/HI 270 Writings on Feminism in Historical Perspective

This course examines the writings of Euro-American male and female feminists who promoted the interests of women during the 16th - 19th centuries.

Offered every 2 years. 3 credits.

WO/HI 274 Sex, Marriage and the Family in Historical Perspective

LASC-Thought, Language, and Culture: Diversity Across the Curriculum

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

This course will undertake a study of courtship, marriage and family life-cycle patterns in England and America during the 19th century.

Offered every 2 years. 3 credits.

WO/HI 333 Women in Latin America

Prerequisite: HI 233 or equivalent

Examines the roles of women in diverse societies including Mexico, Brazil, and the Caribbean nations. Emphasis on the modern period.

Offered every other year. 3 credits.

WH/HI 350 Native American Women

Prerequisite: HI 205 or equivalent

Examines Indian Women from the time of European contact to the modern arena. Emphasizes culture, community and arenas of power.

Offered every other year. 3 credits.

WO/HI 372 The Evolution of Women's Rights

This course analyzes the evolution of Women's Rights with emphasis on its role in the twentieth century's International Law of Human Rights

Offered every 2 years. 3 credits.

*WO/HI 450 ST: New England History

A topical history course in which class, ethnic and gender changes will be considered in the pre-industrial, industrializing, industrial, de-industrializing and post-industrial periods in the six state region.

Offered every 3 years. 3 credits.

WO/MU 231 Women in Music

LASC-Thought, Language, and Culture; Creative Arts

A survey of the role of women in music, particularly the great women composers from Medieval to Contemporary times. Category 1. 3 credits.

*WO/NU 310 Nursing Science I

Prerequisites: NU 210; BI 262; SO 215 or SO 220

Corequisite: CH 240

Students will apply the nursing process when caring for the childbearing family and adult medical-surgical patients. Concepts of wellness, disease and health behaviors will be examined as the nursing process is operationalized in the care of adult medical-surgical patients and the childbearing family. Lecture and off-campus clinical experiences in maternal-child health nursing and medical-surgical nursing are included in this course.

Offered Fall semester every year. 8 credits.

WO/PH 150 Women in Western Ideas

LASC—Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum Investigates the concept of woman from ancient Greece to the present.

*WO/PH 240 Political Theory

LASC-Thought, Language, and Culture; United States and Its Role in the World

Investigates concepts including political power, equality, revolution, liberties, slavery, socialism and liberalism, patriarchal power, race and gender

Offered every 3 years. 3 credits.

*WO/PH 241 Genocide and Human Rights

LASC-Global Perspectives; United States and Its Role in the World

This course treats the ethical, political, and other dimensions of systematic mass violence through case studies and general theoretical analysis.

Offered every 3 years. 3 credits.

WO/PH 250 Global Feminisms

LASC-Global Perspectives; Thought, Language, and Culture

Investigates the theoretical underpinnings of women's movements for equal rights around the globe Offered every 2 years. 3 credits.

WO/PS 255 Psychological Foundations of Diversity

Prerequisite: PS 101

Explores the gender, racial/ethnic, multiple-group membership, cultural, social class, religious, disability and sexual orientation facets of diversity.

Offered every 3 years. 3 credits.

WO/PS 260 Psychology of Human Sexuality

Prerequisite: PS 101

Sexuality as a foundation of personality. The wide range of human sexuality is explored: sexual development, roles, attitudes and behaviors

Offered every 2 years. 3 credits.

WO/PS 263 Psychology of Women

Prerequisite: PS 101

Women's psychological development throughout the lifespan will be examined, including female development, achievement, stereotyping, stress, violence and psychological disorders.

Offered every 2 years. 3 credits.

*WO/PS 312 Psychology of Adolescence

Prerequisite: PS 101

The mental, emotional, social, and physical changes of contemporary adolescence are examined with emphasis on family, peer and school influences.

Offered every year, 3 credits

WO/PS 315 Physical and Sexual Abuse

Prerequisite: PS 101

Etiology, characteristics, consequences, treatment, and prevention of various forms of physical, sexual, and emotional abuse in children, adolescents, and adults.

Offered every 2 years. 3 credits.

WO/PS 335 Abnormal Psychology

Prerequisite: PS 101

Etiology, dynamics, and treatment of psychopathology and their relation to normal personality are considered from traditional and contemporary perspectives.

Offered every 2 years. 3 credits.

*WO/SO 205 Issues in American Society

Prerequisite: SO 100

Identification and analysis of current social issues facing contemporary American society, and critique of policies and programs designed to resolve these issues.

*WO/SO 240 Sociology of Education

Prerequisite: SO 100 or SO 110

Study of modern educational systems, emphasizing the social, political and economic factors that influence its organization and its functions.

Offered every 2 years. 3 credits.

WO/SO 285 Race, Class and Gender

An introduction to dominant-minority group relations through the investigation of the patterns and dynamics of differentiation, inequality and discrimination.

Offered every 3 years. 3 credits.

*WO/SO 300 Social Change

Prerequisites: Two courses at 200-level

A study of the conditions, patterns, and consequences of social transformations with emphasis on institutional and individual patterns of adjustments and adaptation.

Offered every 3 years. 3 credits.

*WO/SO 350 Social Stratification

Prerequisites: Two courses at 200-level

Investigation of the recurrent patterns of social differentiation, social ranking, and the unequal distribution of rewards. Offered every 2 years. 3 credits.

WO/SO 355 Gender & Sexuality

LASC-Diversity Across the Curriculum; Human Behavior and Social Processes; Individual and Community Well-being

This course examines how social institutions and cultural norms construct particular gender roles and sexual identities within society.

Offered every year. 3 credits.

WO/UR 103 Introduction to Women's Studies

LASC — Diversity Across the Curriculum; Human Behavior and Social Processes; Individual and Community Wellbeing

This course uses a variety of academic disciplines to study the situation of women around the world.

Offered every year. 3 credits.

WO/UR 216 Women and Aging in the Urban Environment

Investigation of the aging process for women in urban society, focusing on their great longevity, lower income status, and major caregiving role.

Offered every 2 years. 3 credits.

WO/UR 290 Gender and the City

LASC—Diversity Across the Curriculum; Human Behavior and Social Processes; Global Perspectives Exploration of ways in which gender, both male and female, structures responses of individuals to urban life and urban spaces.

Offered every 2 years. 3 credits.

*WO/UR 360 Environmental Systems and Public Policy

Prerequisite: UR 101 or permission of instructor

Examination of urban ecosystems, focusing on land uses designed to effectively utilize water, open space and other natural resources.

WO/UR 380 Public Policy and Cultural Diversity

Prerequisite: UR 101

This course will examine contemporary policy issues and problems deriving from cultural diversity. These will include areas such as immigration, population, demographics, affirmative action, public assistance, integration, separatism, political correctness, gender equity, and the role of organized religion in contemporary politics.

Offered every 2 years. 3 credits.

WO 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

WORCESTER S T A T E UNIVERSITY



SCHOOL OF EDUCATION, HEALTH AND NATURAL SCIENCES

Dean
Dr. Linda S. Larrivee

LOCATION

Kalyan K. Ghosh Science and Technology Building First Floor, Room ST-101

Biology

Chemistry

Communication Sciences and Disorders

Computer Science

Earth, Environment, and Physics

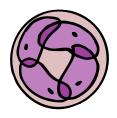
Education

Health Sciences

Mathematics

Nursing

Occupational Therapy



Biology Department of Biology

Faculty

Latifeh Amini-Kormi, Professor (1994)

B.S., Tehran University; Ph.D., University of Pennsylvania

Daron C. Barnard, Professor (2006)

B.A., Middlebury College; Ph.D., Vanderbilt University

Nirvana Filoramo, Assistant Professor (2011)

B.S., University of Massachusetts, Amherst; M.S., Iowa State University;

Ph.D., University of Connecticut

Ellen F. Fynan, Professor (1993)

B.S., University of Maine; Ph.D., Thomas Jefferson University

Roger S. Greenwell, Assistant Professor (2014)

B.S., Western Kentucky University; Ph.D., University of Wisconsin-Madison

Jennifer Hood-DeGrenier, Associate Professor (2012)

B.A, Williams College; Ph.D., Harvard University

Steven J. Oliver, Professor (2003), Department Chair

B.A., University of Montana; Ph.D., Boston University

Maura Collins Pavao, Professor (2001)

B.S., Worcester Polytechnic Institute; M.S., Ph.D., Rutgers University

Antonieto S. Tan. Professor (1993)

B.S., M.S., University of San Carlos; Ph.D., University of Southern Mississippi

Randall Tracy. Professor (2003)

B.S., M.S., University of Connecticut; Ph.D., Arizona State University

Sebastián Vélez, Assistant Professor (2012)

B.S., University of Puerto Rico; M.S., University of Notre Dame;

Ph.D., Harvard University

The Biology program provides students with a broad knowledge in the biological sciences through a core curriculum and upper-level courses in specialized areas of study. A hands-on approach for teaching laboratory techniques and field work is emphasized. Throughout the program, students are encouraged to develop effective communication skills and an awareness of the societal and global implications of biology. Students may pursue a major in Biology, a minior in Biology or Psychobiology, or concentrations in Nuclear Medicine Technology or Bioinformatics. In addition, the pre-requisites necessary to meet

the requirements of medical, dental, veterinary, physician assistant, physical therapy, and pharmacy programs as well as the Accelerated Pharmacy Program with MCPHS can be completed through the Biology major.

Undergraduate biology majors who have demonstrated academic excellence and an interest in biological research may participate in the Honors in Biology program. The Chi lota Chapter of the national biological honor society, Beta Beta Beta provides recognition to outstanding students majoring in Biology and Biotechnology.

Requirements for a Major in Biology

Required Biology courses: 38 credits

BI 140 Introduction to Organismal Biology

BI 141 Introduction to Cellular and Molecular Biology

BI 200 Human Biology

BI 202 Principles of Ecology

BI 203 Genetics

BI 204 Microbiology

BI 404 Biology Senior Seminar

3 Upper Division Electives (300 or 400 level lab courses)

Ancillary Requirements: 28-34 credits

MA 150

MA 190 (Precalculus) or Higher

CH 120 & CH 121 General Chemistry I and II CH 201 & CH 202 Organic Chemistry I and II

PY 221 & PY 222 General Physics I and II or

PY 241 & PY 242 Physics I and II

(Students who also complete CH 203 and CH 204 can earn a chemistry minor)

Biology Upper-Level Electives

	Cellular & Molecular Pathways	Organismal & Ecological Systems
1	BI 306: Developmental Biology	BI 301: Topics in Invertebrate Zoology
2	BI 313: Histology	BI 303: Parasitology
3	BI 324: Endocrinology	BI 304: Comparative Vertebrate Anatomy
4	BI 341: Mycology	BI 315: Comparative Neurobiology
5	BI 371: Molecular Biology	BI 321: Comparative Physiology
6	BI 372: Immunology	BI 331: Marine Biology
7	BI 375: Virology	BI 333: Topics in Vertebrate Zoology
8	BI 398: Cancer Biology	BI 334: Wildlife Biology
9	BI 399: Biochemical Regulatory Mechanisms	BI 340: Plant Sciences
10	BT 375: Tissue Culture	BI 344: Soil Biology
11	BT 376: Biotechnology	BI 352: Symbiosis and Evolution
	BT 377: Fermentation Technology	BI 360: Animal Behavior
12	BT 378: Bioinformatics	BI 380: Biodiversity and Conservation Biology
13	BI/CH 410: Biochemistry I	

(**Note:** Pre-med and graduate school candidates should also take CH 203 & CH 204 (Organic Chemistry laboratory) in addition to CH 201 and CH 202)

A minimum of two upper division laboratory courses (BI 300- or BI 400-level) are to be selected from three categories of Biology electives. Students must take at least one course from each category. Additional upper level elective courses or graduate research/internships

Biology

are strongly encouraged. The courses should be selected with the advice and consent of the faculty advisor. A grade point average of 2.0 must be maintained in biology courses and in the ancillary science and mathematics courses. Students considering graduate and professional work should take, as a recommended minimum, calculus and introduction to computer science.

Department of Biology Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
BI 140	Introduction to Organismal Biology	4
CH 120	General Chemistry I	4
EN 101	English Composition	3
MA 190	Precalculus (LASC QR)	3
LASC	First-Year Seminar	3
	Semester Subtotal	17

Semester Two		
Course No.	Course Name	Credits
BI 141	Introduction to Cellular and Molecular Biology	4
CH 121	General Chemistry II	4
EN 102	English Composition II	3
MA 150	Statistics (LASC QR)*	3
	Semester Subtotal	14
Comments EN 101 and 102 satisfies LASC Writing. Math Requirements: MA 190 requires an Accuplacer score of 6 or higher & MA 150 requires an Accuplacer score of 4 or higher		

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CH 201	Organic Chemistry I	3
LASC	Distribution Elective (ICW*)	3
BI 203	Genetics	4
LASC	US Constitution	4
LASC	Distribution Elective (USW*)	3
	Semester Subtotal	17

Semester Four		
Course No.	Course Name	Credits
CH 202	Organic Chemistry II	3
BI 204	Microbiology	4
LASC	Distribution Elective (GP*)	3
LASC	Distribution Elective (CA*)	3
SELECT	General Elective	3
	Semester Subtotal	16
Pre-med and Graduate school candidates should also take CH 203 & CH 204 Organic Chemistry Laboratory in addition to CH 201 and CH 202. 200 level Biology courses may be taken in any order.		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
BI 202	Principles of Ecology	4
PY 221	*General Physics	4
LASC	Ancillary or LASC Distribution	3
LASC	Distribution Elective (TLC*)	3
	Semester Subtotal	14

	Semester Subtotal	14
Semester Six		
Course No.	Course Name	Credits
BI 200	Human Biology*	3
LASC	US Constitution	4
PY 222	General Physics II	4
LASC	Distribution Elective (HBS*)	3
	Semester Subtotal	14
Physics Requirements: PY 221 & PY 222 OR PY 241 & PY 242 satisfies LASC NSP. * BI 161/162 Human Anatomy and Physiology I/II can not substitute for BI 200.		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
BI	300 or 400 Major Elective Lab	4
BI	300 or 400 Major Elective Lab	4
SELECT	General Elective	3
LASC	Distribution Elective	3
	Semester Subtotal	14

Semester Eigl	nt	
Course No.	Course Name	Credits
ВІ	300 or 400 Major Elective Lab	4
Major	Additional Science	4
BI 404	Biology Senior Seminar ¹	2
LASC	Distribution Elective	3
	Semester Subtotal	13
Comments		

TOTAL CREDITS= 121

Note: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

All biology core courses <u>must</u> be completed before taking BI 404 (BI 140, 141, 200, 202, 203, 204).

Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Honors Program in Biology

The Honors Program in Biology is designated as a distinction bestowed on those outstanding undergraduate Biology majors who have demonstrated distinct competence in overall biology course work and who have completed an independent research project of substantial merit. This program offers motivated students the opportunity to develop research and communication skills in preparation for graduate school or a professional career.

Requirements for the Honors Program in Biology

All courses required for the major in Biology, plus:

BI 205 Research Methods and Experimental Design (2 credits) (Take in Semester 3)

BI 440 Advanced Research Experience for Undergraduates (3-5 credits)*

Written thesis describing original research

*"Commendation in Biology" requires 3 credits of BI 440 Advanced Research Experience for Undergraduates and a minimum 3.0 GPA in biology courses. "Honors in Biology" requires 5 credits of 440 Advanced Research Experience for Undergraduates and a minimum of 3.5 GPA in biology courses.

For more information and specific program requirements, contact Dr. Randall Tracy in the Department of Biology.

Requirements for a Minor in Biology

BI 140 Introduction to Organismal Biology

BI 141 Introduction to Cellular and Molecular Biology

Four additional 200-level or higher Biology or Biotechnology laboratory courses.

Requirements for a Major in Biology, Concentration in Nuclear Medicine Technology: 48 credits

Worcester State University offers, in conjunction with the University of Massachusetts Medical School, a concentration in Nuclear Medicine Technology (NMT), administered by a program advisory committee and accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology.

Nuclear medicine is a study of techniques developed in hospitals, particularly in radiology, pathology and internal medicine departments. These techniques are used for both diagnostic and therapeutic purposes. Students interested in being considered candidates for admission to the program should contact either the program coordinator or the nominating committee as early in their college career as possible. The program is limited to a relatively small number of students.

Prerequisites for the program include successful completion of:

BI 161 & BI 162 Human Anatomy and Physiology I and II

CH 120 & CH 121 General Chemistry I and II
PY 221 & PY 222 General Physics I and II; or

PY 241 & PY 242 Physics I, II

Math Requirement

Two math courses based on Accuplacer scores and Departmental Major Requirements selected as a minimum from these four courses:

MA 180 Introduction to Functions

MA 190 Precalculus
MA 200 Calculus I
MA 201 Calculus II

Note: MA 150 Statistics is not acceptable. Higher level math courses that require Calculus as a prerequisite are acceptable. MA 150 Statistics must be completed for the Biology Major.

Candidates must visit the Medical School Nuclear Medicine Department and file intent to enroll forms with the Worcester State University Nuclear Medicine Technology coordinator prior to being considered a candidate for the program.

Technical specialty courses of the NMT Program are:

Introduction and Hospital Orientation (no credit)

BI/PY 451 & BI/PY 452

Nuclear Instrumentation I and II
BI 461, BI 462, BI 463, & BI 464

NMT Clinical Practicum I, II, III and IV

BI/CH 453 Radiopharmaceuticals

BI/CH 465 & BI/CH 466 Clinical Nuclear Medicine Technology I and II

Students majoring in Biology, Biotechnology, or Chemistry may pursue the Concentration in Nuclear Medicine Technology. Interested students should contact Dr. Frank Lamellas (DEEP) for more information.

Upon completion, the NMT program courses, *in toto*, will satisfy the requirements for three upper level elective courses.

Major in Biology, Concentration in Bioinformatics

The purpose of this interdisciplinary concentration is to prepare students to enter the computer-intensive fields of bioinformatics, computational biology, computational chemistry, and molecular modeling including genomics and proteomics. With the ever increasing number of fully sequenced genomes, including the human genome, databases such as GenBank and EMBL have grown at such a rate that storing, organizing, indexing, and ultimately mining the data have become key to answering biological questions. Questions of gene expression have led to computational biology, the process of analyzing genomic sequences and to the field of proteomics, the understanding of protein structure and function. The information obtained by computational biology and computational chemistry is used in the design of new drugs to treat a variety of diseases. Major drug and biotechnology companies are seeking people trained in bioinformatics.

In addition to the requirements for the Major in Biology:

BT 378	Bioinformatics*	4
CS 101	Basics of Computer Science	3
CS 140	Introduction to Programming	4
CS 242	Data Structures	3
CS 282	UNIX Systems Programming	3
CS 265	Database Applications	3

^{*}BT 378 Bioinformatics fulfills an upper division Cellular/Molecular Biology elective. (requires BI 203 as a prerequisite)

Requirements for a Major in Biology and to meet the prerequisites for the Accelerated Pharmacy Program with Massachusetts College of Pharmacy and Health Science (Please see program description in this catalog.)

All of the courses listed for a major in biology plus:

CH 203 Organic Chemistry Laboratory I
CH 204 Organic Chemistry Laboratory II

Department of Biology: WSU/MCPHS 3+3 Curriculum Guide for Biology Majors Sample Timeline for Completion of Degree

YEAR ONE

Fall Semester 1st Year		
Course No.	Course Name	Credits
EN 101	English Composition I	3
CH 120	General Chemistry I	4
BI 140	Introduction to Organismal Biology	4
LASC	First-Year Seminar	3
MA 200	Calculus I	4
	Semester Subtotal	18

Spring Semester 1st Year		
Course No.	Course Name	Credits
EN 102	English Composition II	3
CH 121	General Chemistry II	4
BI 141	Introduction to Cellular and Molecular Biology	4
MA 201	Calculus II	4
LASC	Distribution Elective (Constitutions)	3
	Semester Subtotal	18
Winter session or Summer after 1st and 2nd years: one course that meets LASC requirements (6 credits total) LASC requirements should include: Introduction to Psychology, Introduction to Sociology, a course that fulfills the Constitutions, Economics, and an upper level (beyond first semester) behavioral science (Psychology or Sociology)		

YEAR TWO

Fall Semester 2 nd Year				
Course No.	Course Name	Credits		
BI 203	Genetics (QRAC)	4		
CH 201/203	Organic Chemistry I w/Lab	5		
PY 221* or 241	General Physics I or Physics I	4		
LASC	Distribution Elective (HBS)	3		
	Semester Subtotal	16		
Spring Semester 2 nd Year				
Course No.	Course Name	Credits		
BI 204	Microbiology	4		
CH 202/204	Organic Chemistry II w/Lab	5		
PY 222* or 242	General Physics II or Physics II	4		
LASC	Distribution Elective (ICW)	3		
Semester Subtotal		16		
Comments	PY 241 and PY 242 can be taken in place of PY 221 and PY 222, however these should be taken concurrently with or after calculus. The 200 level Biology courses may be taken in any order.			

YEAR THREE

Fall Semester 3 rd Year				
Course No.	Course Name	Credits		
BI 200	Human Biology	4		
MA 150	Statistics	4		
LASC	Distribution Elective (USW)	3		
LASC	Distribution Elective (GP)	3		
BI 202	Ecology (WAC)	3		
	Semester Subtotal	17		

Spring Semester 3 rd Year			
Course No.	Course Name	Credits	
LASC	Distribution Elective (CA)	4	
BI 404	Biology Seminar	2	
Optional	Upper Level Elective (Optional)	4	
LASC	Distribution Elective (TLC)	3	
LASC	Distribution Elective (DAC)	3	
	Semester Subtotal	16	
Comments	Total Credits taken at WSU=105. Remaining credits are transferred from MCPHS and fulfill upper level biology electives.		

Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Psychobiology Minor: Psychobiology, the study of human and animal biology and behavior, is an interdisciplinary minor consisting of a total of 6-7 classes (18-24 credits), with significant course contributions from both the Biology and Psychology Departments. Students are required to take courses in Biology and Psychology, which will allow them to explore the link between mind, body, and behavior. Introductory courses include both Biology and Psychology, introducing students to the basics of both disciplines. Advanced courses in both disciplines provide an in-depth understanding of the nervous system, evolution biology, cellular physiology, and sensation and perception. Students will have the opportunity for hands-on learning to facilitate their understanding of the concepts presented in lecture.

All students are eligible to participate in the Psychobiology minor by following either the General Track or one of two specialized tracks: Biology Major Track or Psychology Major Track. These specialized tracks assure that students who major in Biology and Psychology receive an appropriate breadth of experiences within the field of Psychobiology to complement their chosen major.

General Track (Available to all majors except Biology and Psychology) Core (11 credits):

PS 101: General Psychology (3)

BI 116: Animal Biology (4)

PB 200: Introduction to Psychobiology (4)

Electives (10-11 credits): Students must take ONE course from Group A, ONE course from Group B, and ONE course from Group C:

Group A (200-level)

PS 280: Sensation & Perception (3)

BI 200: Human Biology (4)

Group B (300-level Psychology)

PS 325: Psychology of Learning (3)

PS 380: Physiological Psychology (3)

Group C (300-level Biology w/ lab)

BI 315: Comparative Neurobiology (4)

BI 360: Animal Behavior (4)

Capstone (2 credits):

PB 400: Capstone in Psychobiology (2)

Total Credits: 23-24

Biology Major Track (Only available to Biology majors)

Core/Foundation (16 credits):

PS 101: General Psychology (3)

PB 200: Intro to Psychobiology (4)

PS 280: Sensation & Perception (3)

PS 325: Psychology of Learning (3)

PS 380: Physiological Psychology (3)

Capstone (2 credits):

PB400: Capstone in Psychobiology (2)

(Replaces Biology or Psychology capstone)

Total Credits: 18

Psychology Major Track (Only available to Psychology majors)

Core/Foundation (20 credits):

BI 116: Animal Biology (4)

PB 200: Intro to Psychobiology (4)

BI 200: Human Biology (4)

BI 315: Comparative Neurobiology (4)

BI 360: Animal Behavior (4)

Capstone (2 credits):

PB400: Capstone in Psychobiology (2)

(Replaces Biology or Psychology capstone)

Total Credits: 22

Note: Completing this minor also satisfies the LASC requirements of HBSP, NSP w/ Lab (2x), and the capstone requirement.

PB 200: Introduction to Psychobiology

Introductory course in Psychobiology that covers topics including neurobiology, evolution, sensory/motor systems, learning and memory, and social behavior.

Offered every year. 4 credits.

PB 400: Capstone in Psychobiology

Seminar covering selected topics in Psychobiology including primary source material readings, discussion, oral presentation, and written papers.

Offered every year. 2 credits.

Note: PB 400 satisfies the Capstone requirements for both Psychology and Biology majors.

Biology Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

BI 101 Concepts of Biology

LASC-Natural Systems and Processes

Unifying principles in biology; diversity and evolution of plant and animal life at cellular and organismic levels. Three lecture hours and a two hour laboratory per week. Not suitable for Biology majors.

Offered every year. 4 credits.

BI 103 The Human Animal

LASC - NSP (NSP w/ Lab if BI 104 is also taken)

A general survey of the structure and function of human body systems from the biochemical and cellular basis of life to evolution of the human body and the organization of organs and organ systems, including the biological basis of selected disease states. Not suitable for Biology Majors.

Offered yearly. 3 credits

BI 104 The Human Animal Lab

LASC - NSP w/Lab (when taken with BI 103)

This course is the lab to accompany The Human Animal, a general survey of the structure and function of human body systems from the biochemical and cellular basis of life to evolution of the human body and the organization of organs and organ systems, including the biological basis of selected disease states. Not suitable for Biology majors

Offered yearly, 1 Credit

BI 111 Social Biology

LASC-Human Behavior and Social Processes; Natural Systems and Processes

This course considers the interface between current biological technologies and the social, cultural, legal, and moral postures of modern humans.

Offered every year. 3 credits.

BI 112 Diseases and Mankind

LASC- Global Perspectives; Natural Systems and Processes

Diseases of ancient and modern humans; the impact on history, religion, science, art and philosophy. Not suitable for Biology majors.

Offered every year. 3 credits.

BI 114 Plants and Human Affairs

LASC-Global Perspectives; Natural Systems and Processes

Humankind's dependence upon plants and influence on civilization; art, religion, literature, folklore, medicine, and human behavior. Not suitable for Biology majors.

Offered every 3 years. 3 credits.

BI 116 Animal Biology

LASC-Natural Systems and Processes

Survey of animal kingdom with emphasis on animal diversity, form, function, ecology, behavior, life histories and animal-specific cellular function. Three lecture hours and three laboratory hours per week. Not suitable for Biology majors. Offered every year. 4 credits.

BI 117 Humans and the Environment

LASC-Natural Systems and Processes

A survey of anthropogenic environmental impacts and the underlying mechanisms involved. Three lecture hours and three laboratory hours per week. Not suitable for Biology majors. Offered every 3 years. 4 credits.

BI 118 Dinosaurs

LASC-Natural Systems and Processes

A survey of dinosaurs; their evolution, anatomy, diversity and impact on evolutionary biology. Discussions of the changing views of dinosaurs in the media and public consciousness. Three lecture hours and two laboratory hours per week. Not suitable for Biology majors.

Offered every 3 years. 4 credits.

BI 120 Darwinian Revolution

LASC-Thought, Language, and Culture; Natural Science and Processes

An interdisciplinary perspective on the philosophical, religious, and social impacts of Darwin's theory of evolution by the process of natural selection.

Offered every 3 years. 3 credits.

BI/WO 125 - Women In Science

LASC - Human Behavior and Social Processes; Natural Systems and Processes; Diversity Across the Curriculum Examines issues related to gender in science and technology. Includes historical and recent contributions to science made by women.

Offered every 3 years. 3 credits

BI 140 Introduction to Organismal Biology

LASC-Natural Systems and Processes

Evolution, anatomy, and diversity of organisms. Three lecture hours and three laboratory hours per week. Intended for STEM masters.

Offered every year. 4 credits.

BI 141 Introduction to Cellular and Molecular Biology

LASC-Natural Systems and Processes

Prerequisite: CH 120 or completion of the Biology Bridge Program

Cellular and molecular concepts in biology. Emphasis on the structure and varied functions of the cell. Three lecture hours and three laboratory hours per week. Intended for STEM masters.

Offered every year. 4 credits.

BI 161 Human Anatomy and Physiology I

Considers human cellular histology, tissues, integumentary, nervous, skeletal and muscular systems. Three lecture hours and three laboratory hours per week. Not suitable as a LASC course. Offered every year. 4 credits.

BI 162 Human Anatomy and Physiology II

LASC-Natural Systems and Processes

Prerequisite: BI 161

Considers endocrine, digestive, respiratory, cardiovascular, urinary, immune and lymphatic systems; water and electrolyte balance, reproduction and embryology. Three lecture hours and three laboratory hours per week. Offered every year. 4 credits.

BI 193 Special Topics in Biology for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

BI 199 Selected Topics in Biological Sciences

Each topic is a lecture and/or laboratory course in a selected area of the biological sciences presented by a departmental instructor. Topics will be announced in advance. 1-4 credits.

BI 200 Human Biology

Prerequisites: BI 140/141; OR PB 200

A systemic approach to the study of human biology. The course will emphasize structure/functional relationships and homeostatic mechanisms. Three hour lecture and three hour lab.

Offered every year. 4 credits.

BI 202 Principles of Ecology

LASC-Writing Across the Curriculum

Prerequisites: BI 140, EN 102, MA 150 or higher

Ecological theory relating to organism-environment interactions; population dynamics and ecosystems. Includes fieldwork. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

BI 203 Genetics

LASC-Quantitative Literacy Across the Curriculum

Prerequisites: BI 141, minimum Accuplacer score of 4

Introductory genetics with examples of human inheritance and recent developments in genetic engineering. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

BI 204 Microbiology

Prerequisites: BI 141 and CH 121, or consent of instructor

The structure and replication of microorganisms. Infectious diseases and immune responses are emphasized. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

BI 205 Research Techniques and Experimental Design

Prerequisites: BI 140, BI 141, MA 150

Investigations in experimental design and research methodologies required for the Honors Program in Biology. Two lecture hours per week.

Offered every year. 2 credits.

BI 206 Medical Microbiology

LASC-Natural Systems and Processes

Prerequisite: BI 161, CH 112 or CH 120; Co-requisite: BI 162

A study of growth and control of pathogenic microorganisms with emphasis on infectious disease transmission, immune responses, prevention and treatment. Three lecture and three laboratory hours per week.

Offered every year. 4 credits.

BI 207 Public Health Microbiology

Prerequisite: BI 161, CH 112

Growth and control of pathogenic microorganisms with emphasis on infectious disease transmission, immune responses, prevention and treatment for Public Health majors.. Three lecture hours per week.

Offered every year. 3 credits.

BI 215 Neurosciences

Prerequisites: BI 161, BI 162

Structural and functional organization of the central and peripheral nervous system. Principles of normal and abnormal transmission, integration, and storage of information in neuronal pathways. Three lecture hours per week. Intended for Occupational Therapy majors.

Offered every year. 3 credits.

BI/BT 240 Research Experience for Undergraduates

Prerequisite: Permission of instructor

Lab and/or field based research on a specific research topic under the supervision of a faculty member.

Offered every semester. 1-6 credits.

BI 271 Basic Kinesiology

LASC-Natural Systems and Processes

Prerequisites: BI 161

Structure and function of human skeletal muscles in relation to motion and general body mechanics under normal and stress conditions.

BI 301 Topics in Invertebrate Zoology

Prerequisites: BI 140 and BI 202

Considers anatomy, taxonomy (including selected articles of the International Code of Zoological Nomenclature), natural history, and evolutionary relationships of selected invertebrate phyla. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 303 Parasitology

Prerequisite: BI 140, BI 200

Basic concepts in symbiology, life cycles, epidemiology, disease development, control and prevention of selected human parasites. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 304 Comparative Vertebrate Anatomy

Prerequisites: BI 141, BI 200

Considers prochordate and chordate taxonomy and phylogeny; systematic morphological comparison of representative chordates to establish homology, analogy, and evolution. Three lecture hours and three laboratory hours per week. Offered every 3 years. 4 credits.

BI 306 Developmental Biology

Prerequisites: BI 141

Study of developmental patterns, cellular differentiation and cell interactions resulting in cellular diversity, organization, and perpetuation of the germ line. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 313 Histology

Prerequisites: BI 141, BI 200

The structure and function of animal tissues. Each student is required to prepare tissues using histological methods. Three lectures hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 315 Comparative Neurobiology

Prerequisites: BI 200

Structural and functional organization of the central and peripheral nervous system. Principles of normal and abnormal transmission, integration, and storage of information in neuronal pathways. Three lecture hours and three laboratory hours per week

Offered every year. 4 credits.

BI 321 Comparative Physiology

Prerequisites: BI 140, BI 141, BI 200

A comparison of select physiological functions of different animal taxa with mammals used as a reference. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 324 Endocrinology

Prerequisites: BI 140, BI 141, BI 200

The role of endocrine glands in the normal integration of animals; mechanisms of hormone action, function, and interrelationships. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 331 Marine Biology

Prerequisites: BI 140 and BI 202

Considers the marine environment, its flora and fauna, distribution and production of plankton-nekton-benthos; zoogeography, bioeconomic factors and potential. Three lecture hours and three laboratory hours per week. Offered every 3 years. 4 credits.

BI 333 Topics in Vertebrate Zoology

Prerequisites: BI 140, BI 202

Life histories, adaptations, distribution, systematics, and economic importance of ectothermic selected vertabrae taxa. Three lecture hours and three laboratory hours per week.

BI 334 Wildlife Investigative Techniques

Prerequisites: BI 140 and BI 202

Considers procedures for collection and analysis of field and laboratory data on vertebrate game populations useful to wildlife biologists. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits

BI 340 Plant Sciences

Prerequisites: BI 140, BI 141, BI 202

Morphology, anatomy, physiology of flowering plants with studies on life cycles, ecological relationships, biochemical processes and evolution of plant diversity. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 341 Mycology

Prerequisite: BI 141 and BI 204

The morphology, cytology, and evolution and classification of the fungi. Three lecture hours and three laboratory

hours per week.

Offered every 3 years. 4 credits.

BI 344 Soil Biology

Prerequisites: BI 141, BI 204, CH 120, CH 121

Includes study of nutrient cycling, relations between plants, animals and microbes, ecology of polluted soils and soil biotechnology. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 352 Symbiosis and Evolution

Prerequisites: BI 140, BI 141, BI 204

Origin and nature of microbial life, evolution of multicellular organisms and the central role played by biological symbioses. Lecture and Laboratory. Three hours of lecture and three laboratory hours per week.

Offered every 3 years. 4 credits

BI 360 Animal Behavior

Prerequisite: BI 140, 202: OR PB 200

Survey of ethology and behavioral ecology from an historical and evolutionary perspective. Laboratory involves observation, recording and analysis of animal behavior. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits

BI 371 Molecular Biology

Prerequisites: BI 141 and BI 203; or CH/BI 410

Modern perspectives on biological macromolecules and information pathways linking them to cellular functions; emphasis on experimental techniques and ethical considerations. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 372 Immunology

Prerequisites: BI 141, BI 204

Study of immune system elements and defense mechanisms. Immunological disorders will be discussed. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits.

BI 375 Virology

Prerequisites: BI 141 and BI 204

Physical structure and replication schemes of viruses; role of viruses in human disease, research and commercial applications. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits

BT 375 Tissue Culture

Prerequisite: CH 120, CH 121

A review of the methods of animal and plant tissue culture. Media preparation, aseptic techniques and cell culture technology. Three lecture hours and three laboratory hours per week.

BT 376 Biotechnology

Prerequisite: CH 120, CH 121, BI 141

Principles and applications of recombinant DNA (molecular & microbial aspects). The Biotechnology Industry, including bioreactor manufacturing standards and government rules. Three lecture hours and three laboratory hours per week. Offered every year: 4 credits.

Cherea every year. 4 creaks.

BT 378 Bioinformatics

Prerequisites: BI 141, BI 203

Provides an overview of Bioinformatics including database structure, genomics, computational biology and proteomics. Offered every 3 years. 4 credits.

BI 380 Biodiversity and Conservation Biology

Prerequisites: BI 140, BI 141, BI 202, BI 203

A theoretical and quantitative approach to species, genetic, ecosystem and community diversity in the context of modern conservation biology principles.

Offered every 3 years. 4 credits

BI 398 Cancer Biology

Prerequisites: BI 141, BI 203

Cellular and molecular basis of cancer, including cancer genetics, biochemical pathways related to cancer, and modern treatment approaches. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits

BI 399 Biochemical Regulatory Mechanisms

Prerequisites: BI 141 and BI 203; or CH/BI 410

Examination of the many biochemical mechanisms that regulate gene expression and protein function, with an investigative lab project. Three lecture hours and three laboratory hours per week.

Offered every 3 years. 4 credits

BI 401 Selected Topics in Biological Sciences

Prerequisites: Consent of department and instructor

Each topic is a lecture and/or laboratory course in a selected area of the biological sciences presented by a departmental instructor and/or guest lecturers when appropriate; topic announced in advance.

Offered every 3 years. 1-4 credits.

BI 402 Independent Studies In Biology

Prerequisites: Consent of department and instructor; Junior or Senior standing

Advanced semi-independent study (by qualified upper-level Biology majors) of an approved biological problem.

Faculty supervision required.

Offered every year. 1-6 credits.

BI 403 Biology Internship

Prerequisite: Consent of department; Junior or Senior standing

Intended for qualified, upper-level biology majors. Faculty advisor required. (May not be used for major requirements.) Offered every year. 1-6 credits.

BI 404 Biology Senior Seminar

LASC - Major Capstone

Prerequisite: Senior Standing, BI 200, BI 202, BI 203, and BI 204

Preparation and presentation of biological topics, chosen with the advice and consent of a faculty advisor. Capstone course for Biology majors.

Offered every year. 2 credits.

BI 408 Directed Study

Directed study offers students who, because of unusual circumstances, may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

BI/CH 410 Biochemistry I

Prerequisite: CH 201, CH 202

The chemistry of proteins, nucleic acids, carbohydrates, and lipids; enzymes, biological oxidations; and correlations in intermediary metabolism. Three lecture hours and three laboratory hours per week.

BI/CH 411 Biochemistry II

Prerequisite: BI/CH 410

The generation and storage of metabolic energy; biosynthesis of macromolecular precursors, DNA, RNA, and protein; and biochemical regulation. Three lecture hours and three laboratory hours per week.

Offered every 2 years. 4 credits.

BI/BT 440 - Advanced Research Experience for Undergraduates

Prerequisites: Junior or senior standing, BI 205, 3 BI courses at WSU, Consent of Instructor

Advanced lab and/or field based research on a specific research topic under the supervision of a faculty member. Offered yearly, Credits 1-6

BI/PY 451 Nuclear Instrumentation I

Prerequisite: Consent of NMT coordinator

Structure, functions, and interactions of particulate and nonparticulate radiations with matter; detection, calibration, dosage, and statistical methods.

Offered every year. 4 credits.

BI/PY 452 Nuclear Instrumentation II

Prerequisite: Consent of NMT coordinator

Designed to further the skills of operating, calibrating, and performing routine maintenance on scanners, gamma

cameras, well-counters, and liquid scintillation counters.

BI/CH 453 Radiopharmaceuticals

Prerequisite: Consent of NMT coordinator

Fundamental concepts of radiopharmaceutical production and use; includes basic radiochemistry.

Offered every year, 4 credits.

Offered every year. 4 credits.

BI 461/BI 462 NMT Clinical Practicum I and II

Prerequisite: Consent of NMT coordinator

Students will spend several days a week in a hospital observing the ongoing activities and procedures of a nuclear

medicine facility.

Offered every year. BI 461, 2 credits; BI 462, 4 credits.

BI 463 NMT Practicum III

Prerequisite: Consent of NMT coordinator

Guided and supervised by clinical instructors, students begin to acquire manual skills essential to nuclear medicine technology; and in performing all routine nuclear medicine examination and laboratory procedures.

Offered every year. 6 credits.

BI 464 NMT Practicum IV

Prerequisite: Consent of NMT coordinator

Upon completion of this practicum, students should be skilled in performing both routine and non-routine nuclear medicine examinations and laboratory procedures.

Offered every year. 8 credits.

BI/CH 465 Clinical Nuclear Medicine Technology I

Prerequisite: Consent of NMT coordinator

Considers why a specific test is indicated; which radiopharmaceutical is preferred; and how the basic image appearance, and/or numerical data may be altered by pathological states.

Offered every year. 4 credits.

BI/CH 466 Clinical Nuclear Medicine Technology II

Prerequisite: Consent of NMT coordinator

Case presentations using formulas, charts, tables, and calculations to arrive at examination parameters such as dose, number of counts, speed of instrument, etc.



Biotechnology Department of Biology

Faculty

Maura Collins Pavao, Professor (2001)

Coordinator of the Biotechnology Program

B.S., Worcester Polytechnic Institute; M.S., Ph.D., Rutgers University

Roger S. Greenwell, Sr., Assistant Professor (2014)

B.S., Western Kentucky University; Ph.D., University of Wisconsin-Madison

Susan Mitroka, Assistant Professor (2013)

B.A., Rutger's University; Ph.D., Virginia Polytechnic Institute and State University

Jeffry C. Nichols, Associate Professor (2006)

B.A., Texas Tech University; Ph.D., Rice University

Worcester State University offers a program in biotechnology to meet the need for skilled laboratory associates in the experimental laboratory and in manufacturing facilities of the biotechnology industry. Biotechnology graduates are trained in tissue culture, molecular biology, protein purification, analytical chemistry, regulatory affairs and are eligible for internships.

Graduates are qualified for careers in research and development, quality assurance, quality control, and manufacturing as well as for further (graduate) eduction.

The Biotechnology major is sponsored jointly by the departments of Biology and Chemistry.

Requirements for a Major in Biotechnology

BI 141	Introduction to Cell and Molecular Biology	4
BI 204	Microbiology	4
BT 375	Tissue Culture	4
BT 376	Biotechnology	4
BT 410	Biotechnology Seminar	1
CH 120 & CH 121	General Chemistry I & II	8
CH 201 & CH 203	Organic Chemistry I, plus Lab	5
CH 210	Chemical Analysis	4
CH 410	Biochemistry I	4

Plus two major electives choose from:

Major Electives

BI 313	Histology	4
BI 399	Biochemical Regulatory Mechanisms	4
BI 398	Cancer Biology	4
BI 372	Immunology	4
BI 371	Molecular Biology	4
BI 375	Virology	4
CH 350	Medicinal Chemistry	3
CH 202	Organic Chemistry II	3
CH 204	Organic Chemistry II Lab	2
PY 310	Modern Physics	3
CH 411	Biochemistry II	4
BT 377	Fermentation Technology	4
BT 378	Bioinformatics	4
BT 450	Internship	Var.
CH 335	Green Chemistry	3
CH 450	Computational Chemistry	
CH 455	Special Topics: Organometallics in	
	Organic Synthesis	

And certain other BI 300, CH 300 and PY 300 level courses with Biotech coordinator approval.

In addition, majors are expected to complete the following ancillary courses:

MA 190 Precalculus (may be waived), MA 200 Calculus I, MA 201 Calculus II or BI 203 Genetics, MA 150 Statistics, PY 221 & PY 222 General Physics I & II, or PY 241 and 242, Physics I and II, CS 120 Microcomputer Applications, EN 252 Technical Writing or EN 253 Business Communications.

Department of Biology: Biotechnology Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
EN 101	English Composition I	3
CH 120	General Chemistry I	4
MA 180 or MA 190	Introduction to Functions, or Precalculus (LASC QR)	3 or 4
HI	U.S. Constitution (LASC HBS)	3
LASC	First-Year Seminar	3
	Semester Subtotal	17

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
CH 121	General Chemistry II	4
MA 190 or MA 200	Precalculus or Calculus I (LASC QR)	4
BI 141	Introduction to Cell and Molecular Biology	4
	Semester Subtotal	15
Comments	EN 101 and 102 satisfies LASC writing. MA 180 requires Accuplacer 5 or higher.	score of

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CH 201	Organic Chemistry I	3
CH 203	Organic Chemistry I Lab	2
BI 203 or MA 201	Genetics or Calculus I (LASC QRAC)	4
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (HBS*)	3
	Semester Subtotal	15

Semester Four		
Course No.	Course Name	Credits
BI 204	Microbiology	4
MA 150	Statistics	3
EN 242 or EN 253 or CS 110	Technical Writing or Business Communications or Microcomputer Applications	3
LASC or CH 202/204	Distribution Elective or Organic Chemistry II+Lab	3-5
LASC	Distribution Elective or Calculus II	3-4
	Semester Subtotal	16-18
Comments	MA 150 requires an Accuplacer score of 4 or higher.	

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
BT 376	Biotechnology	4
PY 221 or 241	General Physics I or Physics I (NSP)	4
LASC	Distribution Elective (TLC*)	3
LASC	Distribution Elective (CA*)	3
	Semester Subtotal	14

Semester Six		
Course No.	Course Name	Credits
BT 375	Tissue Culture	4
PY 222 or 246	General Physics II or Physics II (NSP)	4
LASC	Distribution Elective (GP*)	3
LASC	Distribution Elective (USW*)	3
	Semester Subtotal	14

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
CH 210	Chemical Analysis	4
BI/BT	Upper Level Elective	4
LASC	Distribution Elective*	3
LASC	Distribution Elective (WAC*)	3
	Semester Subtotal	14

Semester Eight		
Course No.	Course Name	Credits
BT 450 or BI 401	Internship or Independent Research Project or upper elective	4-6
BT 410	Biotechnology Seminar	1
CH 410	Biochemistry	4
LASC	Distribution Elective (QLAC*)	3
LASC	Distribution Elective (DAC*)	3
	Semester Subtotal	14-17

TOTAL CREDITS= 120-125

Note: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Major in Biotechnology and to meet the prerequisites for the Accelerated Pharmacy Program with Massachusetts College of Pharmacy and Health Science University (MCPHSU) (Please see program description in this catalog.)

All of the courses listed for a major in biotechnology plus:

BI 140 Introduction to Organismal Biology
CH 202 Organic Chemistry II
CH 204 Organic Chemistry Laboratory II

Major in Biotechnology, Concentration in Bioinformatics

The purpose of this interdisciplinary concentration is to prepare students to enter the computer-intensive fields of bioinformatics, computational biology, computational chemistry, and molecular modeling including genomics and proteomics. With the ever increasing number of fully sequenced genomes, including the human genome, databases such as GenBank and EMBL have grown at such a rate that storing, organizing, indexing, and ultimately mining the data have become key to answering biological questions. Questions of gene expression have led to computational biology, the process of analyzing genomic sequences and to the field of proteomics, the understanding of protein structure and function. The information obtained by computational biology and computational chemistry is used in the design of new drugs to treat a variety of diseases.

In addition to the requirements for the Major in Biotechnology:

BT 378	Bioinformatics*	4
CS 101	Basics of Computer Science	3
CS 140	Introduction to Programming	4
CS 242	Data Structures	3
CS 282	UNIX Systems Programming	3
CS 265	Database Applications	3

Requirements for a Major in Biotechnology, Concentration in Nuclear Medicine Technology: See program description under Biology.

Honors Program in Biotechnology

The Honors Program in Biotechnology is designated as a distinction bestowed on those outstanding undergraduate Biotechnology majors who have demonstrated distinct competence in overall biotechnology course work and who have completed an independent research project of substantial merit. This program offers motivated students the opportunity to develop research and communication skills in preparation for a graduate or professional career.

Requirements for the Honors Program in Biotechnology

- A written thesis describing the student's **original research**
- Grade point average in major and ancillary courses of at least 3.5
- Successful completion of BI 205, Research Techniques and Experimental Design
- Enrollment in a minimum of one semester of independent study credit
 (BI 440 Advanced Research Experience for Undergraduates) totaling at least 4 credits

Combined BS/MS Program in Biotechnology

The Five Year Combined BS/MS in Biotechnology is open to eligible students and consist of three graduate courses (10 credits) that count toward both degrees. These three courses are Biotechnology and DNA (BI 921), Tissue Culture (BI 927), and a graduate elective. Also, students begin a research project in the Spring semester of the fourth (senior) year. Application requirements include a minimum of 3.0 GPA, two letters of recommendation and the GRE.

Recommended Timeline for Completion of BS/ MS Program: Biotechnology

YEAR ONE

Semester One			
Course No.	Course Name		Credits
EN 101	English Composition I		3
CH 120	General Chemistry I		4
MA 180 or MA 190	Introduction to Functions, or Precalculus (LASC QR)		3 or 4
LASC	U.S. Constitution		3
LASC	Freshman First-Year Seminar		3
		Semester Subtotal	16-17

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
CH 121	General Chemistry II	4
MA 190 or MA 200	Precalculus or Calculus I	4
BI 141	Introduction to Cell and Molecular Biology	4
	Semeste	er Subtotal 15

YEAR TWO

Semester One		
Course No.	Course Name	Credits
CH 201	Organic Chemistry I	3
CH 203	Organic Chemistry I Lab	2
BI 204	Microbiology	4
MA 200	Calculus I	4
LASC	Distribution Elective (HBS*)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
BI 203 or MA 201	Genetics or Calculus II	4
MA 150	Statistics	3
EN 242 or EN 253 or CS 110	Technical Writing or Business Communications or Microcomputer Applications	3
LASC or CH 202/204	Distribution Elective or Organic Chemistry II+Lab	3-5
LASC	Distribution Elective	3
	Semester Subtotal	16-18

YEAR THREE

Semester One		
Course No.	Course Name	Credits
BI/BT	Upper Level Elective	4
PY 221	Physics I	4
LASC	Distribution Elective	3
LASC	Distribution Elective	3
	Semester Subtotal	14

Semester Two		
Course No.	Course Name	Credits
BI/BT	Upper Level Elective	4
PY 222	Physics II	4
CH 210	Chemical Analysis	3
LASC	Distribution Elective	3
	Semester Subtotal	14

YEAR FOUR

Semester One		
Course No.	Course Name	Credits
BI 921	Biotechnology and DNA	4
LASC	Distribution Elective	3
LASC	Distribution Elective	3
ВІ	Graduate Elective	3
	Semester Subtotal	13

Biotechnology

Semester Two		
Course No.	Course Name	Credits
BI 927	Tissue Culture Techniques	3
BT 410	Biotechnology Seminar	1
CH 410	Biochemistry	4
BI 440	Advanced Research Experience	3
LASC	Distribution Elective	3
	Semester Subtotal	14

Summer

- 1. Biological, Chemistry or Graduate Elective (3)
- 2. Graduate Elective (3)
- 3. Statistics requirement for graduate program (3)

YEAR FIVE

Semester One		
Course No.	Course Name	Credits
BI 995	Research Project	3
BI	Graduate Elective	3
BI	Graduate Elective	3
	Semester Subtotal	9

Semester Two		
Course No.	Course Name	Credits
BI 995	Research Project	3
ВІ	Graduate Elective	3
BI 990	Seminar in Biotechnology	3
	Semester Subtotal	9

Biotechnology Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

BT110 Introduction to Concepts of Biotechnology

LASC - Natural Systems and Processes; Global Perspectives; Writing Across the Curriculum

Prerequisite: EN 102

The uses of Biotechnology. The scientific, economic, social, ethical, and political impact of Biotechnology. Offered every other year. 3 credits.

BT 210 Introduction to Forensics

LASC-Natural Systems and Processes

Prerequisite: Complete one quantitative reasoning course

Survey of forensic case studies and the laboratory techniques used to solve crimes including microscopy, chromatography, entomology, botany, ballistics and DNA electrophoresis. Three hours lecture and two hours laboratory per week.

Offered every 3 years. 4 credits.

BI/BT 240 Research Experience for Undergraduates

Prerequisite: Permission of instructor

Lab and/or field based research on a specific research topic under the supervision of a faculty member.

Offered every semester. 1-6 credits.

BT 375 Tissue Culture

Prerequisite: CH 120, CH 121

A review of the methods of animal and plant tissue culture. Media preparation, aseptic techniques and cell culture technology. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

BT 376 Biotechnology

Prerequisite: CH 120, CH 121, BI 141

Principles and applications of recombinant DNA (molecular & microbial aspects). The Biotechnology Industry including bioreactor manufacturing standards and government rules. Three lecture hours and three laboratory hours per week. Offered every year. 4 credits.

BT 377 Fermentation Technology

Prerequisites: BI 141, BI 204

Explores the application of biological and engineering principles involved in manufacturing pharmaceutical products.

Three hours lecture and three hours laboratory per week.

Offered every 3 years. 4 credits.

BT 378 Bioinformatics

Prerequisites: BI 203, BI 141

Provides an overview of Bioinformatics including database structure, genomics, computational biology and proteomics. Three hours lecture and three hours laboratory per week.

Offered every 3 years. 4 credits.

BT 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

BT 410 Biotechnology Seminar

LASC - Capstone

Prerequisites: Senior standing and consent of department

Up-to-date developments in Biotechnology; preparation and presentation of technical literature. Students will study new techniques and procedures used by the industry.

Offered every year. 1 credit.

BI/BT 440 Advanced Research Experience for Undergraduates

Prerequisites: Junior or Senior standing, BI 205, permission of instructor

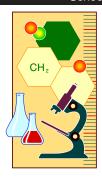
Advanced lab and/or field based research on a specific research topic under the supervision of a faculty member. Offered every semester. 1-6 credits.

BT 450 Internship in Biotechnology

Prerequisite: Consent of department

Qualified upper-level biotechnology majors can learn experimental techniques by working in a research laboratory or a professional manufacturing environment.

Offered every year. 3-6 credits.



Chemistry Department of Chemistry

Faculty

Jeremy R. Andreatta, Assistant Professor (2012)

B.S., Tarleton State University; Ph.D., Texas A&M University

Meghna Dilip, Associate Professor (2008)

B.Sc., University of Madras, India; M.Sc., Anna University, India;

M.S., Ph.D., University of Alabama

Anne M. Falke, Professor (1997)

B.A., University of Rhode Island; Ph.D., University of New Hampshire

Eihab Jaber, Associate Professor (2006)

B.A., Hunter College; M.S, Ph.D., State University of New York, Stony Brook

Margaret E. Kerr, Professor, Department Chair (2000)

B.S., University of Maine; Ph.D., Wesleyan University

Susan Mitroka, Assistant Professor (2013)

B.A., Rutger's University; Ph.D., Virginia Polytechnic Institute and State University

Kathleen Murphy, Assistant Professor (2014)

B.S., College of William and Mary, M.S., Ph.D., University of Massachusetts, Amherst

Jeffry C. Nichols, Associate Professor (2006)

B.A., Texas Tech University; Ph.D., Rice University

Joseph G. Quattrucci, Assistant Professor (2011)

B.A., University of Southern Maine; Ph.D., University of Massachusetts, Amherst

Weichu Xu (2016)

B.S., Suzhou University, Suzhou, CHina, M.S., Ph.D., Chinese Academy of Sciences

The chemistry program provides education and training in chemistry to students who wish to pursue careers in chemistry, biotechnology, medicine, dentistry, allied health fields, science teaching, environmental science, materials science and engineering. Chemistry is considered the central science because it is required for full understanding of many other sciences as well as medicine. The Chemistry Department offers courses for general education as well as for majors in chemistry, biology, biotechnology, and nursing. Besides the chemistry major and minor programs, the department also offers concentrations in nuclear medicine technology, biochemistry, green chemistry and environmental chemistry, materials science and inorganic chemistry, and bioinformatics. Majors in chemistry may also be eligible for the Accelerated Pharmacy Program with the Massachusetts College of Pharmacy and Health Sciences. The department has a chapter of the Gamma Sigma Epsilon National Honor Society in chemistry. The department offers opportunities for undergraduate research in organic chemistry, bioanalytical chemistry, nanoscience and molecular modeling. The Chemistry Department promotes green chemistry in its curriculum and research.

Requirements for a Major in Chemistry: 45 credits

Core: 33 credits	
CH 120 & CH 121	General Chemistry I and II
CH 201 & CH 202	Organic Chemistry I and II (Lectures)
CH 203 & CH 204	Organic Chemistry Laboratory I and II
CH 301 & CH 302	Physical Chemistry I and II (Lectures)
CH 303	Physical Chemistry Laboratory I
CH 210	Chemical Analysis: An Introduction to Modern Methods

CH 475 Chemistry Seminar

Plus a minimum of 12 credits at the 300 level or above, at least one of which must be a lab course. Internships and Independent Study may contribute no more than 3 credits toward this requirement.

In addition, majors are expected to complete the following ancillary courses: MA 200 & MA 201 Calculus I and II, PY 241 & PY 242 Physics I and II.

Students must earn a C- or higher in all prerequisite courses in order to register for a chemistry or ancillary course.

Department of Chemistry Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
CH 120	General Chemistry I	4
MA 200	Calculus I (LASC QR) or Math according to accuplacer score	4
LASC	Distribution Elective	3
	Semester Subtotal	17

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	U.S. Constitution	3
CH 121	General Chemistry II	4
MA 201	Calculus II (LASC QR) or Math according to accuplacer sore	4
LASC	Distribution Elective	3
	Semester Subtotal	17
Comments	It is recommended that students take Calculus (MA 200/1) in their first-year and calculus-based physics (PY241/2) in their second year. This gives the best preparation for physical chemistry in the third year. EN 101 satisfies LASC writing MA 200/1 satisfies QR.	

Chemistry

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CH 201	Organic Chemistry I (Lectures)	3
CH 203	Organic Chemistry Laboratory I	2
PY 241	Physics I (LASC NSP, QLAC)	4
CH 210	Chemical Analysis (LASC WAC) or Calculus I (if not taken previously)	5
LASC	Distribution Elective	3
	Semester Subtotal	17

Semester Four		
Course No.	Course Name	Credits
CH 202	Organic Chemistry II (Lectures)	3
CH 204	Organic Chemistry Laboratory II	2
PY 241	Physics II (LASC NSP)	4
CH3XX/4XX	Chemistry Upper-level Elective or Calculus II (if not taken previously)	3-4
LASC	Distribution Elective	3
Semester Subtotal		15-16
* PY 241/2 each satisifes NSP. CH 210 satisfies WAC.		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CH 301	Physical Chemistry I (Lectures)	3
CH 303	Physical Chemistry Laboratory I	2
LASC	Distribution Elective** or Chemical Analysis (if not taken previously)	5
SELECT	Free Elective	3
SELECT	Free Elective	3
	Semester Subtotal	14-16

Semester Six		
Course No.	Course Name	Credits
CH 302	Physical Chemistry II (Lectures)	3
CH3XX/4XX	Chemistry Upper Level Elective	3-4
LASC	Distribution Elective	3
LASC	Distribution Elective	3
SELECT	Free Elective	3
	Semester Subtotal	15-16
** 3 + 3 Pre-Pharmacy students must take Chemistry Seminar in the Fall semester of Junior year others take in Senior year.		Fall

YEAR FOUR

Semester Seven		
Course No.	Course No. Course Name	
CH 475*	Chemistry Seminar**	2
CH3XX/4XXX	Chemistry Upper Level Elective	3-4
LASC	Distribution Elective	3
SELECT	Free Elective	3
SELECT	Free Elective	3
	Semester Subtotal	14-15

Semester Eight		
Course No.	Course Name	Credits
CH3/4 XXX	Chemistry Upper Level Elective	3-4
SELECT	Free Elective (Chemistry or other)	3-4
SELECT	Free Elective (Chemistry or other)	3-4
SELECT	Free Elective	3
Semester Subtotal		12-15
** Students who have not taken Chemistry Seminar (a Capstone Experience) must take it in their senior year Fall semester.		erience)

TOTAL CREDITS= 121-127

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Major in Chemistry, Concentration in Nuclear Medicine Technology: See program description under Biology.

Requirements for a Major in Chemistry, Concentration in Biochemistry:

All of the courses listed above as required for the major in chemistry plus both CH 410 Biochemistry I and CH 350 Medicinal Chemistry

and any two of the following:

CH 330 Environmental Toxicology
CH 355 Molecular Pharmacology
CH 444 Piceh agricum: III

CH 411 Biochemistry II BI 371 Molecular Biology

CH 495 Fundamentals of Chemical Research (in appropriate topic for concentration)

Three credits of CH 480 (Chemistry Internship) or CH 490 (Independent Study) in an appropriate topic for the concentration may be substituted for one of the electives with departmental approval.

Requirements for a Major in Chemistry, Concentration in Green Chemistry and Environmental Chemistry:

All of the courses listed above as required for the major in chemistry plus both CH 320 Environmental Chemistry and CH 335 Green Chemistry

and any two of the following:

CH 330 Environmental Toxicology

CH 336 Environmental and Chemistry Lab

CH 410 Biochemistry I

CH 470 Instrumental Analysis

CH 495 Fundamentals of Chemical Research (in appropriate topic for

concentration)

Three credits of CH 480 (Chemistry Internship) or CH 490 (Independent Study) in an appropriate topic for the concentration may be substituted for one of the electives with departmental approval.

Requirements for a Major in Chemistry, Concentration in Materials Science and Inorganic Chemistry:

All of the courses listed above as required for the major in chemistry plus both CH 340 Advanced Inorganic Chemistry and CH 360 Introduction to Materials Science

and any two of the following:

CH 304 Physical Chemistry Laboratory II

PY 310 Modern Physics CH 470 Instrumental Analysis

CH 495 Fundamentals of Chemical Research (in appropriate topic for

concentration)

Three credits of CH 480 (Chemistry Internship) or CH 490 (Independent Study) in an appropriate topic for the concentration may be substituted for one of the electives with departmental approval.

Requirements for a Major in Chemistry and to meet the prerequisites for the Accelerated Pharmacy Program with Massachusetts College of Pharmacy and Health Sciences:

(Please see program description in this catalog.)

All of the courses listed for the chemistry major core, plus:

BI 140 Introduction to Organismal Biology

BI 141 Introduction to Cellular and Molecular Biology

PY 241 Physics I

MA 200	Calculus
MA 201	Calculus II
BI 204	Microbiology
PY 242	Physics II

Requirements for a Major in Chemistry, Concentration in Bioinformatics:

The purpose of this interdisciplinary concentration is to prepare students to enter computer-intensive fields of bioinformatics, computational biology, computational chemistry and molecular modeling including genomics and proteomics. With the advent of the Human Genome Project, an explosion of genomics information has occurred, and databases such as GenBank and EMBL have grown at a rate that now requires storage, organizing and indexing of the information. Questions of gene expression have led to computational biology, the process of analyzing genomic sequences and to the field of proteomics, the understanding of protein structure and function. The information obtained by computational biology and computational chemistry is used in the design of new drugs to treat a variety of diseases. Major drug and biotechnology companies are seeking people trained in bioinformatics.

In addition to the requirements for the Major in Chemistry:

BI 203	Genetics+	4
BT 378	Bioinformatics	4
CS 140	Introduction to Programming	4
CS 242	Data Structures	3
CS 135	Programming for Non-CS Majors	3
CS 265	Database Applications	3

One course from:

BI 203	Genetics+	4
BI 204	Microbiology	4
BI 306	Developmental Biology+	4
BI 371	Molecular Biology+	4
BI 375	Virology+	4
BT 376	Biotechnology	4

⁺requires additional prerequisite courses beyond those required for the major and concentration.

Chemistry Honors Program:

The Chemistry Honors Program is an upper-level program designed to challenge students majoring in chemistry to excel in their course work, to encourage them to extend their program beyond the basic requirements of the major, and to reward and recognize them for so doing. Students are required to have a 3.5 GPA in chemistry and ancillary courses and a 3.2 GPA overall.

Students would need to complete the following courses in chemistry:

CH 120 & CH 121	General Chemistry I and II
CH 201 & CH 202	Organic Chemistry I and II (Lectures)
CH 203 & CH 204	Organic Chemistry Laboratory I and II
CH 210	Chemical Analysis: An Introduction to Modern Methods
CH 301 & CH 302	Physical Chemistry I and II (Lectures)
CH 303	Physical Chemistry Laboratory I
CH 475	Chemistry Seminar

The following two courses must be taken as part of the required 12 credits of 300 and 400-level electives:

CH 340 Advanced Inorganic Chemistry

CH 410 Biochemistry I

Students would need to complete at least 6 semester hours of research under CH 490 (Independent Study) leading to the writing of a thesis.

In addition, students would be expected to complete the ancillary requirements for the chemistry major in calculus and physics.

Requirements for a Minor in Chemistry: 18 credits

CH 120 & CH 121 General Chemistry I and II

Ten (10) additional credits in 200- or higher level chemistry courses

Chemistry Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

CH 106 Paper or Plastics?

LASC-Natural Systems and Processes

Students will study modern issues related to chemistry. These will include sustainability, green chemistry, climate change and the ozone layer.

Offered every year. 3 credits.

CH 112 Survey of Chemistry

LASC-Natural Systems and Processes (Laboratory Course)

Chemical and physical properties of inorganic, organic and biochemical compounds with implications for human health and the environment. Ancillary course—Nursing Program. Three lecture hours and three laboratory hours per week. Offered every semester. 4 credits

CH 120 General Chemistry I

LASC-QR, Accuplacer score of 5 (or higher) required

Corerequisite: MA 180 (or higher)

Modern survey of chemistry. Topics include chemical equations, properties of gases, atomic structure, periodic table, chemical bonding, chemistry of carbon. Three lecture hours and three laboratory hours per week. CH 120 and 121 provide the foundation for further courses in chemistry.

Offered every year. 4 credits.

CH 121 General Chemistry II

Prerequisite: CH 120

Continuation of CH 120. Topics include principles of thermodynamics, acids and bases, reaction rates, oxidation-reduction reactions, and electrochemistry. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

CH 193 Special Topics in Chemistry for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

CH 201 Organic Chemistry I (Lectures Only)

Prerequisites: CH 120, CH 121

Structure, reactions, mechanisms, and stereochemistry of the alkanes, alkenes, alkynes, dienes, alkyl halides. Introduction to aromatic chemistry.

Offered every year. 3 credits.

CH 202 Organic Chemistry II (Lectures Only)

Prerequisite: CH 201

Continuation of CH 201. Reactions and mechanisms of aromatic chemistry; structures and reactions of alcohols, ethers, carboxylic acids, aldehydes, ketones.

Offered every year. 3 credits.

CH 203 Organic Chemistry Laboratory I

Prerequisite or Corequisite: CH 201

Techniques of preparation, purification, and identification of aliphatic compounds. One four-hour laboratory per week. Offered every year. 2 credits.

CH 204 Organic Chemistry Laboratory II

Prerequisite: CH 203, Prerequisite or Corequisite: CH 202

Application of basic and more advanced techniques to increasingly complicated synthetic problems. One four-hour laboratory per week.

Offered every year. 2 credits.

CH 210 Chemical Analysis: An Introduction to Modern Methods

LASC - Writing Across the Curriculum Prerequisites: CH 120, CH 121, EN 102

Introduction to modern methods of chemical analysis including gravimetry, acid-base and redox titrations, potentiometry, uv-visible and atomic absorption spectrophotometry, and gas and HPLC chromatography. Three lecture hours and four laboratory hours per week.

Offered every year. 5 credits.

CH 250 Instrumental Techniques for Forensic Analysis

LASC-Natural Systems and Processes; Quantitative Literacy Across the Curriculum

Introduction to instrumental techniques used to analyze crime scene evidence. Includes HPLC, IR spectrometry , Atomic spectroscopy, and GC-MS. Three lecture hours and three lab hours per week..

Offered every year. 4 credits.

CH 301 Physical Chemistry I (Lectures Only)

Prerequisites: CH 120, CH 121, MA 200, MA 201, PY 241, 242

Study of quantum theory, chemical bonding, spectroscopy, molecular structure and molecular modeling. Three lecture hours per week.

Offered every year. 3 credits.

CH 302 Physical Chemistry II (Lectures Only)

Prerequisite: CH 301

Continuation of CH 301. Study of first, second and third laws of thermodynamics, and of kinetics, chemical solution and phase equilibria. Three lecture hours per week.

Offered every year. 3 credits.

CH 303 Physical Chemistry Laboratory I

Prerequisite or Corequisite: CH 301

Laboratory deals with methods of physical measurement of chemical systems and their application to the determination of molecular structure, spectroscopy and thermodynamic data. One four hour laboratory per week.

Offered every year. 2 credits.

CH 304 Physical Chemistry Laboratory II

Prerequisite or Corequisite: CH 302

Continuation of CH 303; project-oriented laboratory dealing with the study of reaction rates and mechanisms, electrochemistry, and molecular properties. One four hour laboratory per week.

Offered every 2 years. 2 credits.

CH 320 Environmental Chemistry

Prerequisites: CH 120, CH 121 or CH 201

Chemistry of the atmosphere, soil, and natural water systems, air and water pollution water treatment, hazardous wastes and pollution control.

Offered every 2 years. 3 credits.

CH 330 Environmental Toxicology

Prerequisites: CH 120, CH 121, BI 141

Topics include the pharmacological and biochemical properties of toxins and the effects of toxins on human health, including assessment of risk(s).

Offered every 3 years. 3 credits.

CH 335 Green Chemistry

Prequisites: CH 120, 121

This course will provide an understanding of the fundamentals of green chemical design that either eliminates or reduces the use or generation of hazardous substances. Three hours of lecture/lab per week.

Offered every year. 3 credits.

CH 336 Environmental and Green Chemistry Laboratory

Prerequisites: CH 120/121 CH 320 or CH 335 (recommended)

Laboratory experiments will demonstrate principles of green chemistry and include topics in environmental sampling, analysis and toxicology. Four hour laboratory per week.

Offered every year. 2 credits.

CH 340 Advanced Inorganic Chemistry

Prerequisites: CH 120, CH 121, CH 201 or CH 202 recommended, CH 301

This course is a survey of the chemistry of the inorganic elements, focusing on the relationship between electronic structure, physical properties, and reactivity across the periodic table.

Offered every 2 years. 3 credits.

CH 350 Medicinal Chemistry

Prerequisites: CH 201, CH 202

A study of how drugs work and the science and technology of modern drug discovery illustrated with case histories. Three lecture hours per week.

Offered every 3 years. 3 credits.

CH 355 Molecular Pharmacology

Prerequisites: CH 201, CH 202, BI 141 and Prerequisite or Co-requisite CH 410

Course examines the interdisciplinary science of pharmacology from a chemical perspective. Topics include pharmacotherapeutics, pharmacokinetics, pharmacodynamics, pharmacognosy, pharmacy and toxicology. Three lecture hours per week.

Offered every two years. 3 credits.

CH/PY 360 Introduction to Materials Science

Prerequisites: CH 120, CH 121, and either PY 221, PY 222 or PY 241, PY 242

Physical structure of solids. Electrical, magnetic, thermal, and optical properties of solids, liquids, and soft matter. Structure-property relationships in materials.

Offered every year. 3 credits.

CH/PY 370 Introduction to Nuclear Science

Prerequisites: CH 120, CH 121, MA 200 Calculus I, and either PY 221, PY 222 or PY 241, PY 242

Fundamentals of nuclear science. Topics include nuclear structure and forces, radioactive decays, nuclear reactions, and modern applications.

Offered every 2 years. 3 credits.

CH 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

CH/BI 410 Biochemistry I

Prerequisites: CH 201, Prerequisite or Corequisite: CH 202

The chemistry of proteins, nucleic acids, carbohydrates, and lipids; enzymes, biological oxidations; and correlations in intermediary metabolism. Three lecture hours and three laboratory hours per week.

Offered every year. 4 credits.

CH/BI 411 Biochemistry II

Prerequisite: CH/BI 410

The generation and storage of metabolic energy; biosynthesis of macromolecular precursors, DNA, RNA, and protein; and biochemical regulation. Three lecture hours per week.

Offered every 3 years. 3 credits.

CH 450 Computational Chemistry

Prerequisites: CH 301

Modern theoretical methods used in studying molecular structure, bonding, and reactivity. Application of these theories to various chemical systems.

Offered every 2 years. 3 credits.

CH/BI 453 Radiopharmaceuticals

Prerequisite: Consent of NMT coordinator

Fundamental concepts of radiopharmaceutical production including basic radiochemistry.

Offered every year. 4 credits.

CH 455 Special Topics in Chemistry

Prerequisites: 18 credits in Chemistry and consent of Department

Exploration of frontier areas of chemistry, including chemical kinetics, quantum chemistry, polymers, spectroscopy, materials science, environmental, bioinorganic and medicinal chemistry.

Offered every 3 years. 3-4 credits.

CH/BI 465 Clinical Nuclear Medicine Technology I

Prerequisite: Consent of NMT coordinator

Why a specific test is indicated; which radiopharmaceutical is preferred; and how the basic image appearance and/ or numerical data may be altered by pathological states.

Offered every year. 4 credits.

CH/BI 466 Clinical Nuclear Medicine Technology II

Prerequisite: Consent of NMT coordinator

Case presentations using formulas, charts, tables, and calculations to arrive at examination parameters such as amount of dose, number of counts, speed of instrument, etc.

Offered every year. 4 credits.

CH 470 Instrumental Analysis

Prerequisites: CH 120, CH 121, together with CH 210 or CH 301 or two years of analytical laboratory experience Advanced level survey of instrumental methods of separation and analysis including spectrophotometry, polarography, and chromatography. Laboratories are project-oriented. Two lecture hours and six laboratory hours per week. Offered every 2 years. 4 credits.

CH 475 Chemistry Seminar

LASC - Major Capstone

Prerequisite: Successful completion of 25 Chemistry credits or special permission of instructor

Contemporary developments in chemistry, review of technical literature in both print and electronic format, preparation and presentation of technical paper.

Offered every year. 2 credits.

CH 480 Chemistry Internship

Prerequisite: Consent of department

Project completed at an institution other than Worcester State by a student with a non-Worcester State sponsor and Worcester State liaison.

Offered every year. 1-6 credits.

CH 490 Independent Study in Chemistry

Prerequisite: Consent of department

Advanced independent work on a research problem in chemistry mutually agreed to by the student and the instructor. Offered every year. 1-6 credits.

CH 495 Fundamentals of Chemical Research

Prerequisite: Consent of instructor required

Students will conduct research on an assigned project with individual guidance and supervision from the instructor. One lecture hour and four laboratory hours per week.

Offered every semester. 3 credits.

WORCESTER S T A T E UNIVERSITY



Communication Sciences and Disorders

Department of Communication Sciences and Disorders

Faculty

Joan E. Butterworth, Clinical Instructor (2008) B.S., Northeastern University; M.S., Purdue University

Suzanne Crawford-Stacy, Clinical Instructor (2013)

B.S., Worcester State College; M.S. University of Vermont

Kristina A. Curro, Assistant Professor (2015)

B.A., University of Rochester, MA; Ph.D. University of Massachusetts

Keith N. Darrow, Professor (2010)

B.S., University of Massachusetts; M.S., Brooklyn College; Ph.D., Massachusetts Institute of Technology and Harvard Medical School

Kara F. Medeiros, Assistant Professor (2013)

B.S., Elmhurst College; M.S., Texas A&M-Kingsville; Ph.D., University of Nebraska-Lincoln

Kenneth S. Melnick, Associate Professor (2004)

B.A., University of Michigan; M.A., University of Cincinnati; Ph.D., Vanderbilt University

Susanna E. Meyer, Professor, Department Chair (1997)

B.A., M.A., Ph.D., University of Pretoria, South Africa

Roger L. Towne, Associate Professor (2004)

B.A., M.A., University of Montana; Ph.D., Southern Illinois University, Carbondale

Ann T. Veneziano-Korzec, WSU Speech-Language-Hearing Center Director (1988)

B.S., Boston College; M.S., Syracuse University

The goal of the undergraduate program of the Department of the Communication Sciences and Disorders is to facilitate an understanding of normal human communication processes as well as communication disorders. These disorders can develop in children or occur later in life.

Communication is defined as the sharing of needs, experiences, ideas, thoughts and feelings with other people through modalities such as talking, listening, writing, reading, and nonverbal means. Undergraduate students in Communication Sciences and Disorders begin by learning the scientific foundations of the normal processes of communication. This scientific basis is followed by an introduction to the disorders that can occur in speech, language and hearing in children and adults.

Communication Sciences and Disorders

The undergraduate program immerses students in an academically rigorous and challenging course of study. In addition to the courses offered within the Department of Communication Sciences and Disorders, students are required to take courses in biological sciences, physical sciences, behavioral sciences and mathematics. A Communication Sciences and Disorders baccalaureate degree provides students with a solid foundation for graduate study in several fields including Speech-Language Pathology and Audiology.

The undergraduate curriculum allows the opportunity for students who may be interested to study abroad or be part of the National Student Exchange. The second semester of year one or the first semester of year two are good choices for these pursuits. Students must plan their semester away with their department advisor at least one year in advance to assure that they complete their major requirements in a timely manner.

Overall the Communication Sciences and Disorders major provides students with knowledge and skills that enable them to do well in either graduate school or in the work place. Students will have an excellent liberal arts education with a strong basis of normal and disordered communication. Students will acquire interpersonal, critical thinking, and problem-solving skills, as well as scientific reasoning, and strong writing, and presentation abilities.

Requirements for a Major: 46 credits

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CD 100	Introduction to Human Communication and its Disorders
CD 103	Language Science
CD 110	Anatomy and Physiology of Speech and Hearing
CD 115	Normal Development of Speech and Language
CD 201	Hearing Science
CD 202	Speech Science
CD 205	Phonetics
CD 230	Neuroscience for Communication Sciences and Disorders
CD 301	Directed Observations
CD 305	Introduction to Audiology
CD 310	Language Disorders
CD 320	Speech Disorders
CD 400	Introduction to Aural Rehabilitation
CD 401	Advanced Directed Observations
CD 410	Professional Guidelines and Skills
CD 475	Selected Topics in Communication Sciences and Disorders

Students must obtain a minimum grade of a C in any prerequisite major course. In addition, a major course may be repeated only once to obtain a passing grade.

Out of department requirements include the following courses: one biological science (human or animal based), one physical science (physics, natural science or chemistry based), one math (MA 180 Introduction to Functions requires a placement test score of 5), one statistics, and two behavioral sciences of which one must be in developmental psychology. These requirements cannot be taken pass/fail. Advisors in the Department of Communication Sciences and Disorders will help students choose appropriate courses in these areas.

Department of Communication Sciences and Disorders Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar (LASC FYS)	3
EN 101	English Composition I (LASC WRI)	3
CD 100	Introduction to Human Communication and Its Disorders	3
PS 101	General Psychology (LASC HBS)	3
MA 180	Introduction to Functions (LASC QR)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (LASC WRII)	3
CD 103	Language Science	3
CD 110	Anatomy and Physiology of Speech and Hearing	3
STATISTICS	MA 150 or PS 275 (LASC QR)	3
LASC	Distribution Elective (LASC USW**)	3
Semester Subtotal		15
Comments MA 180 requires an Accuplacer score of 5 or higher. MA 150 requires and an Accuplacer score of 4 or higher.		and an

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CD 201	Hearing Science (LASC QLAC)	3
CD 205	Phonetics	3
BIO, SCI*	BI 101 (LASC NSP), BI 141, BI 161	4
LASC	Distributed Elective (LASC GP**)	3
LASC	Distribution Elective (LASC CA**)	3
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
CD 115	Normal Development of Speech and Language	3
CD 230	Neuroscience for Communication Sciences and Disorders	3
PS 210	Developmental Psychology	3
Phys. Sci.*	PY 105, 114, 221, or 222; NS 120, CH 110 (LASC NSP)*	4
LASC	Distribution Elective (LASC TLC**)	3
Semester Subtotal		16
Comments	CD 201 requires an Accuplacer score of 3 or higher. BI 101 satisfies LA * See advisor for a full list of approved courses.	SC NSP.

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CD 202	Speech Science	3
LASC	Distribution Elective (LASC NSP**)	3
LASC	Distribution Elective (LASC ICW**)	3
LASC	Distribution Elective (LASC CON**)	3
SELECT	General Elective	3
	Semester Subtotal	15

Comments	CD 202 requires an Accuplacer score of 3 or higher.
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Semester Six		
Course No.	Course Name	Credits
CD 301	Directed Observation	2
CD 310	Language Disorders	3
CD 320	Speech Disorders	3
CD 305	Introduction to Audiology	3
LASC	Distribution Elective	3
SELECT	General Elective	3
	Semester Subtotal	17
Comments	CD 301, 305, 310 and 320 are corequisite courses.	

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
CD 400	Introduction to Aural Rehabilitation Theory (LASC DAC)	3
CD 401	Advanced Directed Observations (LASC WAC)	2
CD 410	Professional Guidelines and Skills (LASC CAP)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	14

Semester Eight		
Course No.	Course Name	Credits
CD 475	Special Topics in Communication Sciences and Disorders	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments	Completion of CD 301 and CD 401 satisfy LASC WAC.	

TOTAL CREDITS= 123

Note:

- Most major courses have prerequisites that must be completed before enrolling into the subsequent course.
- 2. LASC courses indicated with ** are suggestions and serve as a reminder that LASC Distribution Electives must be taken to satisfy the LASC requirements.
- Once major and LASC requirements are satisfied, students may elect any courses of interest to fulfill a minimum of 120 credits for graduation.
- Students are required to meet with their department advisor to review the upcoming semester's academic course choices.

CSD Honors Program

The CSD Honors Program is intended for outstanding students within the CSD major. Students completing the requirements will graduate with departmental honors. Applicants must submit a letter of application to the CSD Undergraduate Committee, a research proposal, and a letter of support from a faculty sponsor. Applications are due November 1st for Spring semester and April 1st for Fall semester.

To be part of the program, CSD students must have:

- A minimum GPA of 3.5
- No grade less that a B in all CSD courses and non-CSD required courses
- · Completed a total of 60 credits
- Completed CD 110, 115, 201, 202, 205, and 230

Once accepted into the CSD Honors Program, students will:

- Complete a research project in collaboration with a CSD faculty mentor
- Defend the project before the CSD undergraduate committee
- Present the project in at least one venue

Requirements for a Minor: 18 credits within the department; 15 credits must include:

- CD 100 Introduction to Human Communication and its Disorders CD 103 Language Science
- CD 110 Anatomy and Physiology of Speech and Hearing CD 115 Normal Development of Speech and Language
- CD 205 Phonetics

For students taking prerequisites for the Speech-Language Pathology graduate program, three additional courses, CD 201 Hearing Science, CD 202 Speech Science, and CD 230 Neuroscience for CSD must be completed.

The minimum grade requirement for a course to count toward the minor is a "C".

Communication Sciences and Disorders Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

CD 100 Introduction to Human Communication and its Disorders

LASC-Human Behavior and Social Processes; Individual and Community Well-Being

Nature and causes of organic and functional speech, language and hearing problems, general awareness of diagnostic and therapeutic techniques.

Offered every year. 3 credits.

CD 103 Language Science

LASC-Thought, Language, and Culture

Introduction to basic linguistic knowledge including theoretical areas of pragmatics, semantics, syntax, morphology and phonology in a multicultural perspective.

Offered every year. 3 credits.

CD 110 Anatomy and Physiology of Speech and Hearing

LASC-Natural Systems and Processes, Thought, Language, and Culture

Normal anatomy and physiology of the speech and hearing mechanism with emphasis on respiration, phonation, articulation, audition, and neurology.

Offered every year. 3 credits.

CD 115 Normal Development of Speech and Language

An in-depth coverage of the normal acquisition and development of speech and language, including phonology, morphology, syntax, semantics and pragmatics.

Offered every year. 3 credits.

CD 120 Introduction to Sign Language

Sign language systems and fingerspelling with emphasis on American Sign Language vocabulary and word order. Offered every year 3 credits.

CD 193 Special Topics in Communication Sciences and Disorders for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year 3 credits.

CD 201 Hearing Science

LASC-Quantitative Literacy Across the Curriculum

Prerequisite: CD 110, Accuplacer Code≥ 3

Basic concepts needed to study audiology and aural rehabilitation: physical acoustics, physiological acoustics, and psycho-acoustics.

Offered every year. 3 credits.

CD 202 Speech Science

Prerequisites: CD 110, CD 205, Accuplacer Code≥ 3

An exploration of psycho-acoustic aspects of speech with an emphasis on laboratory analysis, including spectrography. Offered every year. 3 credits.

CD 205 Phonetics

The study of English speech sounds, their articulation and acoustic characteristics, and speech transcription using the International Phonetic Alphabet.

Offered every year. 3 credits.

CD 230 Neuroscience for Communication Sciences and Disorders

LASC-Natural Systems and Processes

Structure and function of the nervous system and its relation to normal and disordered speech, language, and hearing. Offered every year. 3 credits.

CD 301 Directed Observations

LASC-Writing Across the Curriculum (on successful completion of CD 401)

Corerequisite: CD 310, 320 and 305 Prerequisites: EN 101. EN 102

Beginning aspects of clinical issues including objectives, rapport, and timing. Therapy/diagnostic sessions will be viewed and highlighted by instructor.

Offered every year. 2 credits.

CD 305 Introduction to Audiology

Prerequisite: CD 201 and Corerequisite: CD 310, 310 and 320

Introduction to audiometric testing techniques and interpretation as related to ear pathologies.

Offered every year. 3 credits.

CD 307 Intermediate Sign Language

Prerequisite: CD 120

Students gain more facility in sign usage. Receptive and expressive vocabularies are expanded and fluency increased. Offered every year. 3 credits.

CD 310 Language Disorders

Prerequisites: CD 100, CD 103, CD 110, CD 115, CD 202, CD 205, CD 230 and Corerequisite: CD 301, 305 and 320 Examination of the processes interfering with normal language acquisition and the disorders which disturb established language skills in children and adults.

Offered every year. 3 credits.

CD 320 Speech Disorders

Prerequisites: CD 100, CD 110, CD 115, CD 201, CD 202, CD 205, CD 230 and Corerequisite: CD 301, 305 and 310 Study of the theoretical bases of articulation, voice and fluency disorders. Etiology, characteristics, evaluation and rehabilitation of these disorders.

Offered every year 3 credits.

CD 400 Introduction to Aural Rehabilitation

LASC—Diversity Across the Curriculum Prerequisites: CD 305, CD 310, CD 320

Study of the theoretical basis of the characteristics, evaluation and treatment of individuals with hearing impairment across the life span.

Offered every year. 3 credits.

CD 401 Advanced Directed Observations

LASC-Writing Across the Curriculum (on successful completion of CD 301)

Prerequisites: CD 301, EN 102

Advanced aspects of clinical issues including procedures and material selection. Therapy/diagnostic sessions will be viewed and highlighted by the instructor.

Offered every year. 2 credits.

CD 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

CD 410 Professional Guidelines and Skills

LASC - Capstone

Prerequisites: CD 305, CD 310, CD 320, EN 102

Presentation of professional issues; observation and practice in evaluation and treatment of speech-language disorders. Offered every year. 3 credits.

CD 475 Selected Topics in Communication Sciences and Disorders

Prerequisites: CD 310, CD 320

Selection of topics of mutual interest to the student and faculty. Timely topics and issues will be covered.

Offered every year. 1-3 credits.

CD 490 Independent Study in Communication Sciences and Disorders

Prerequisite: Junior and senior majors only

In-depth study, research, or field experience in an area of interest in speech-language pathology or audiology under faculty supervision.

Offered every year. 1-3 credits.



Faculty

Elena Braynova, Professor, Department Chair (2003)

M.S., State University of New York, Buffalo; M.S., Ph.D., Moscow State University, Russia Aparna Mahadev, Professor (1999)

B.Sc., University of Madras, India; M. Sc., University of Madras, India;

M.S., Indian Institute of Technology, India; Ph.D. University of Waterloo, Canada

Hemant Pendharkar, Professor (2001)

B.S., M.S., University of Bombay, India; M.S., Ph.D., University of New Hampshire

Karl R. Wurst, Professor (1999)

B.S., Central Connecticut State University; M.S., Ph.D., University of Connecticut

The Computer Science program offers an undergraduate education that promotes lifelong intellectual growth and prepares students for professional careers and advanced study. The program is grounded in the principles, theories, and application of the science of computing with a special emphasis in the areas of Big Data Analytics and Software Development.

Students will develop the ability to effectively apply discipline knowledge to solve real-world problems, adapt as the field changes, and make ethical decisions. The curriculum provides the foundations of team skills, and allows students to improve their interpersonal skills and professional attitudes. Students will have an opportunity to participate in an internship and in undergraduate research.

Program Outcomes for the Major in Computer Science

Upon completion of the Computer Science Major students will be able to:

- Analyze a problem, develop/design multiple solutions and evaluate and document the solutions based on the requirements.
- Communicate effectively both in written and oral form.
- Identify professional and ethical considerations, and apply ethical reasoning to technological solutions to problems.
- Demonstrate an understanding of and appreciation for the importance of negotiation, effective work habits, leadership, and good communication with teammates and stakeholders.
- Learn new models, techniques, and technologies as they emerge and appreciate the necessity of such continuing professional development.

It is highly recommended that entering students have four years of high school mathematics including the equivalent of pre-calculus.

Students wishing to apply courses transferred from other institutions to the Computer Science major should meet with the department chair to determine the applicability of the courses before registering for any Computer Science courses at Worcester State University.

Non-traditional students with more than 5 years of Computer Science work experience may be eligible to participate in the Next Step Program. The program offers an opportunity to gain credit in the major for writing a prior learning portfolio. The department chair can assist in determining if the program will serve each student's educational goals.

Requirements for a Major in Computer Science: Students must complete a core of ten Computer Science courses, one of the two Computer Science concentrations, two Computer Science Elective courses, and 31 credits of Ancillary courses.

If a CS student completed both CS concentrations (all courses from both the BIG Data Analytics and the Software Development concentration) he/she will be able to declare a second concentration and two of the courses in that second concentration can be used to fulfill the 6 credits of required CS electives.

Core Courses: 24 Credits

CS 101	Basics of Computer Science
CS 140	Introduction to Programming
CS 155	Computer Networking, Security and Databases
CS 225	Discrete Structures I
CS 242	Data Structures
CS 248	Algorithm Analysis
CS 254	Computer Organization and Architecture
CS 282	UNIX Systems Programming
CS 295	Discrete Structures II
CS 373	Operating Systems

Elective Courses: 6 Credits in Computer Science courses at the 300 level or above. Up to 3 credits of Internship (CS 498) and up to 3 credits of Independent Study (CS 499) may be used to satisfy the major elective requirements.

Ancillary Requirements: 31 credits (may apply to LASC requirements). These ancillary courses cannot be taken on a pass/fail basis.

CM 110	Public Speaking
EN 252	Technical Writing
UR 230	Technology, Public Policy & Urban Society
MA 150	Statistics I or MA 302 Probability and Statistics*
MA 200	Calculus I

2 lab science courses (8 credits)

2 approved math or science course chosen from a department-approved list of courses. ** (7 credits)

- * Students planning a Mathematics minor or a Computer Science/Mathematics double major should take MA 302 Probability and Statistics.
- ** Students planning a Mathematics minor or a Computer Science/Mathematics double major should take math courses required for the Mathematics minor/major.

Concentration in Big Data Analytics

Data is being generated at high speed, in large volumes, and by a variety of systems around the world. In such a data-driven and information-centric world, the ability to analyze information and make informed decisions is crucial to every field including business, medicine, the sciences, entertainment, and government. This concentration provides students with the skills, techniques, and knowledge needed to pursue a career in this field.

Requirements for the Concentration in Big Data Analytics: 12 credits in addition to the Core, Elective, and Ancillary courses.

CS 353	Information Organization, Management and Retrieval
CS 383	Cloud, Parallel and Distributed Computing
CS 453	Data Mining
CS 483	Big Data Analytics Capstone

Department of Computer Science: Big Data Analytics Concentration Sample Timeline for Completion of Degree †

YEAR ONE

Semester One		
Course No.	Course Name	Credits
CS 101	Basics of Computer Science	3
EN 101	English Composition I (WRI)	3
MA 190	Pre-calculus* (QR) or Math/Science Course **	4
LASC	Freshmen Seminar (FYS)	3
LASC	Distribution Elective (CON***)	3
	Semester Subtotal	16

Comments

*If the students math placement score requires her/him to take MA 190 Pre-calculus, it should be taken this semester, so that MA 200 Calculus I can be taken in the Spring semester. EN 101 & 102 satisfy LASC writing requirements.

**All Math and Science courses must be selected from a list of department-approved courses.

Semester Two		
Course No.	Course Name	Credits
CS 140	Introduction to Programming	4
CM 155	Computer Networking, Security and Databases	3
EN 102	English Composition II (WRII)	3
MA 200	Calculus I (QR)	4
	Semester Subtotal	14

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CS 242	Data Structures (QLAC)	3
EN 252	Technical Writing (WAC)	3
CS 225	Discrete Structures I	3
UR 230	Technology, Public Policy and Urban Society (HBS)	3
LASC	Distribution Elective (CA***)	3
	Semester Subtotal	15
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Semester Four		
Course No.	Course Name	Credits
CS 254	Computer Organization and Architecture	4
CS 282	UNIX Systems Programming	3
CS 295	Discrete Structures II	3
CM 110	Public Speaking (TLC)	3
LASC	Distribution Elective (GP***)	3
	Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CS 248	Algorithm Analysis	3
CS 373	Operating Systems	3
CS 353	Information Organization, Management and Retrieval	3
LASC	Lab Science (NSP)	4
MA 150 OR MA 302	MA 150 Statistics (QR) MS 302 Probability and Statistics *	3
	Semester Subtotal	16
Comments	* Students planning a Mathematics minor or a Computer Science/Mathematics double major should take MA 302 Probability and Statistics.	

Semester Six		
Course No.	Course Name	Credits
CS 383	Cloud, Parallel and Distributed Computing	3
CS	300+ Level Elective in Major	3
LASC	Math or Science course*	3-4
LASC	Lab Science (NSP)	4
LASC	Distribution Elective (USW***)	3
	Semester Subtotal	16-17
*All Math and Science courses must be selected from a list of department-approved courses.		nent-

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
CS 453	Data Mining	3
CS	300+ Level Elective in Major	3
LASC	Distribution Elective (DAC)***	3
SELECT	General Elective	3
SELECT	General Elective	3
·	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
CS 483	Big Data Analytics Capstone (CAP)	3
LASC	Distribution Elective (ICW***)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	12

TOTAL CREDITS= 120

Note: The sequence of LASC courses marked with *** is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements

Once LASC requirements are satisfied, students may select general requirements. Please refer to the University Catalog for specific curriculum details regarding major and LASC requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Concentration in Software Development

Software systems impact all aspects of life, from phones, to cars, to work lives, and beyond. Software developers analyze the software and infrastructure needs of people and organizations and then coordinate the design, implementation, and testing of the solutions. This concentration provides students with the skills, techniques, and knowledge needed to pursue a career in this field.

Requirements for the Concentration in Software Development: 12 credits in addition to the Core, Elective, and Ancillary courses.

CS 343	Software Construction, Design and Architecture
CS 348	Software Process Management
CS 443	Software Quality Assurance and Testing
CS 448	Software Development Capstone

[†] This four-year plan assumes a Math Placement score of at least 6.

Department of Computer Science: Software Development Concentration Sample Timeline for Completion of Degree †

YEAR ONE

Semester One			
Course No.	Course Name		Credits
CS 101	Basics of Computer Science		3
EN 101	English Composition I (WRI)		3
MA 190	Pre-calculus* (QR) or Math/Science Course **		4
LASC	Freshmen Seminar (FYS)		3
LASC	Distribution Elective (CON***)		3
		Semester Subtotal	16

Comments

*If the students math placement score requires her/him to take MA 190 Precalculus, it should be taken this semester, so that MA 200 Calculus I can be taken in the Spring semester. EN 101 & 102 satisfy LASC writing requirements. **All Math and Science courses must be selected from a list of departmentapproved courses.

Semester Two		
Course No.	Course Name	Credits
CS 140	Introduction to Programming	4
CM 155	Computer Networking, Security and Databases	3
EN 102	English Composition II (WRII)	3
MA 200	Calculus I (QR)	4
	Semester Subtotal	14

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CS 242	Data Structures (QLAC)	3
EN 252	Technical Writing (WAC)	3
CS 225	Discrete Structures I	3
UR 230	Technology, Public Policy and Urban Society (HBS)	3
LASC	Distribution Elective (CA***)	3
	Semester Subtotal	15

Semester Four		
Course No.	Course Name	Credits
CS 254	Computer Organization and Architecture	4
CS 282	UNIX Systems Programming	3
CS 295	Discrete Structures II	3
CM 110	Public Speaking (TLC)	3
LASC	Distribution Elective (GP***)	3
	Semester Subtotal	16

YEAR THREE

Semester Five				
Course No.	Course Name	Credits		
CS 248	Algorithm Analysis	3		
CS 373	Operating Systems	3		
CS 343	Software Construction, Design and Architecture	3		
LASC	Lab Science (NSP)	4		
MA 150 OR MA 302	MA 150 Statistics (QR) MD 302 Probability and Statistics *	3		
	Semester Subtotal	16		
Comments	*Students Planning a Mathematics minor or Computer Science/ Mathematics double major should take MA 302 Probability and Statistics.			

Semester Six				
Course No.	Course Name	Credits		
CS 348	Software Process Management	3		
CS	300+ Level Elective in Major	3		
LASC	Math or Science Course *	3-4		
LASC	Lab Science (NSP)	4		
LASC	Distribution Elective (USW***)	3		
	Semester Subtotal	16-17		
Comments	*All Math and Science courses must be selected from a list of department-approved courses.			

YEAR FOUR

Semester Seven				
Course No.	Course Name	Credits		
CS 443	Software Quality Assurance and Testing	3		
CS	300+ Level Elective in Major	3		
LASC	Distribution Elective (DAC***)	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
	Semester Subtotal	15		

Semester Eight				
Course No.	Course Name	Credits		
CS 448	Software Development Capstone (CAP)	3		
LASC	Distribution Elective (ICW***)	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
	Semester Subtotal	12		

TOTAL CREDITS= 120

Note: The sequence of LASC courses marked with *** is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements

Once LASC requirements are satisfied, students may select general requirements. Please refer to the University Catalog for specific curriculum details regarding major and LASC requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Major in Computer Science, Concentration in Bioinformatics

The purpose of this interdisciplinary concentration is to prepare Computer Science students to enter science-intensive fields of bioinformatics, computational biology, computational chemistry and molecular modeling including genomics and proteomics. With the advent of the Human Genome Project, an explosion of genomics information has occurred, and databases such as GenBank and EMBL have grown at a rate that now requires storage, organizing and indexing of the information.

Questions of gene expression have led to computational biology, the process of analyzing genomic sequences and to the field of proteomics, the understanding of protein structure and function. The information obtained by computational biology and computational chemistry is used in the design of new drugs to treat a variety of diseases. Major drug and biotechnology companies are seeking people trained in bioinformatics.

[†] This four-year plan assumes a Math Placement score of at least 6.

4

4

In addition to the requirements for the Major in Computer Science:

1 Introduction to Cellular and Molecular Biology	4
78 Bioinformatics	4
20 General Chemistry I*	4
21 General Chemistry II*	4
53 Information Organization Management and Retrieval**	3
01 Calculus II***	4
Mathematical Modeling	3
rom:	
3 Genetics	4
4 Microbiology	4
6 Developmental Biology+	4
1 Molecular Biology+	4
7 22 22 23 23 23 23 23 23 23 23 23 23 23	R8 Bioinformatics C0 General Chemistry I* C1 General Chemistry II* C3 Information Organization Management and Retrieval** C1 Calculus II*** C3 Mathematical Modeling C5 Genetics C6 Microbiology C6 Developmental Biology+

Virology+

Biochemistry+

Biotechnology

BI 375

BT 376

BI/CH 410

Requirements for a Minor in Computer Science: (Minimum of 20 credits)

CS 101	Basics of Computer Science
CS 135	Programming for Non-CS Majors
CS 140	Introduction to Programming
CS 155	Computer Networking Security and

CS 155 Computer Networking, Security and Databases

Two more Computer Science course at the 200 level or above.

⁺requires additional prerequisite courses beyond those required for the major and concentration.

^{*}count as the two Lab Science courses required in the CS major Ancillary requirements, but are not NSP.

^{**}counts to Big Data Analytics concentration OR to a CS elective.

^{***}counts as the additional Math/Science course from a department-approved list of courses. Required in the CS major Ancillary requirements.

Computer Science Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

CS 101 Basics of Computer Science

LASC-Quantitative Reasoning

Prerequisite: Familiarity with basic computer operations, Math placement code of 3 or above

A survey course that provides a foundation in the field of Computer Science by presenting a practical and realistic understanding of the field.

Offered every year. 3 credits.

CS 120 Microcomputer Applications

LASC-Quantitative Reasoning

Prerequisite: Familiarity with basic computer operations, Math placement code of 3 or above

Learning state-of-the-art application packages including but not limited to spreadsheets and database software.

Offered every year. 3 credits. (Credit will not be awarded for both CS 120 and CS 124.)

CS 124 Health Informatics

LASC - Quantitative Reasoning

Prerequisite: Familiarity with basic computer operations, Math placement code of 3 or above

Use of computers and information systems in health care. Databases and spreadsheets. Electronic health records. Privacy and policy issues.

Offered every year. 3 credits (Credit will not be awarded for both CS 120 and CS 124)

CS 135 Programming for Non-CS Majors

LASC - Quantitative Reasoning

Prerequisite: Familiarity with basic computer operations, Math placement code of 3 or above

Introduction to programming. Emphasis on practical skills, working with data sets, doing analysis and visualization. No prior programming experience required.

Offered every year. 3 credits.

CS 140 Introduction to Programming

Prerequisite: Co-requisite CS 101

Introduction to fundamental structures and concepts of Computer Science including object-oriented programming; three lectures and one two-hour laboratory.

Offered every year. 4 credits.

CS 155 Computer Networking, Security and Databases

LASC - Quantitative Reasoning

This course covers network protocols and the Internet; computer security fundamentals; basics of relational databases and SQL queries.

Offered every year. 3 credits.

CS 161 Basics of Web Design

Introduces concepts needed for creation, design and implementation of effective web pages. Latest versions of mark-up language(s) will be used.

Offered every year. 3 credits.

CS 165 Digital Forensics

Prerequisite: CS 155

Digital forensic investigation; data acquisition; processing crime and incident scenes; multiple operating systems and file formats; digital forensics tools; analysis and validation.

Offered every year. 3 credits.

CS 193 Special Topics in Computer Science for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. 3 credits.

CS 225 Discrete Structures I

Prerequisite: MA 180 or Math placement code of 6 or higher

Asymptotic notation, sequences, recursions and methods to solve them, proof techniques, realtions, functions, sets and their basic properties.

Offered every year. 3 credits.

CS 242 Data Structures

LASC - Quantitative Literacy Across Curriculum

Prerequisite: CS 140. Prerequisite or corequisite: MA 225

Introduces time complexity and covers fundamental data structures: lists, stacks, queues, search trees, dictionaries, priority queues, B-trees and inverted files.

Offered every year. 3 credits.

CS 248 Algorithm Analysis

Prerequisite: prerequisite or corequisite CS 295

Different algorithm design strategies, sorting, searching, graph algorithms; parallel algorithms; algorithm complexity; turning machines, NP-hard and NP-complete problems.

Offered every year. 3 credits.

CS 254 Computer Organization and Architecture

Prerequisites: CS 140, EN 102. Prerequisite or corequisite: CS 295

Combinational and sequential circuits, assembly language programming, digital computer architecture, instruction sets, addressing modes, memory hierarchies, I/O, and control circuits. Three lecture hours and two laboratory hours per week.

Offered every year. 4 credits.

CS 265 Database Applications

LASC - Quantitative Reasoning

Prerequisite: Familiarity with basic computer operations, Math placement code of 3 or above

This course introduces basic database concepts and teaches how to create a database; use SQL; and create database applications.

Offered every 2 years. 3 credits.

CS 282 UNIX Systems Programming

Prerequisite: CS 242

Problem solving and software design using C; introduction to UNIX programming utilities and text manipulation; low-level system programming in UNIX and C.

Offered every year. 3 credits.

CS 295 Discrete Structures II

Prerequisite: CS 225

Logic, basic counting techniques, probabilities, basic graph theory.

Offered every year. 3 credits.

CS 297 Selected Topics in Computer Science

Topics of mutual interest to students and faculty.

1-4 credits

CS 335 Networking and Web Security

Prerequisite: CS 282

This course covers web and security problems, solutions, and techniques. Encryption, worms, viruses, firewall, safer practices, etc. are covered.

Offered every 2 years. 3 credits.

CS 343 Software Construction, Design and Architecture

Prerequisites: CS 242, EN 252

Software construction techniques and tools, software architectures and frameworks, design patterns, object-oriented design and programming. Efficiency, reliability and maintainability of software.

Offered every year. 3 credits.

CS 348 Software Process Management

Prerequisites: CS 343, CM 110, UR 230

Project management including planning, progress measurement, estimation, and risk assessment. Functional and non-functional requirements. Software licenses, contracts and intellectual property.

Offered every year. 3 credits.

CS 353 Information Organization, Management and Retrieval

Prerequisites: CS 155, CS 242. Prerequisite or corequisite: CS 373

The course introduces fundamental concepts, standards, technologies and methods for information organization, storage, management, retrieval and recovery.

Offered every year. 3 credits.

CS 365 Client Server Computing Using the Internet

Prerequisite: CS 242

This course covers what client/server is and covers various client/server models and explores the Internet from a client/server perspective.

Offered every 2 years. 3 credits.

CS 373 Operating Systems

Prerequisites: CS 254, CS 282, EN 252

Hardware and software as an integrated system; development of system software for process management, resource allocation, memory management and I/O processing.

Offered every year. 3 credits.

CS 383 Cloud, Parallel and Distributed Computing

Prerequisite: CS 373

The course introduces basics of Cloud Computing and fundamental computing technologies used for Big Data platforms such as Parallel, Distributive and Cluster computing models.

Offered every year. 3 credits.

CS 405 Data Communications and Networking

Prerequisites: CS 373, EN 252, CM 110

Data transmission, encoding, interfacing, synchronization, data-link control, multiplexing, networking, circuit switching, packet switching, radio and satellite, local area networks, network access protocols.

Offered every 2 years, 3 credits,

CS 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

CS 443 Software Quality Assurance and Testing

Prerequisites: CS 242, MA 150 or MA 302

Requirements analysis and test plan design. Testing strategies and techniques. Test coverage using statistical techniques. Code reviews and inspections.

Offered every year. 3 credits.

CS 448 Software Development Capstone

LASC - Major Capstone

Prerequisites: CS 343, CS 373, CS 443, Prerequisite or co-requisite CS 348

Development of a significant software system, following appropriate project and team management techniques. Requirements, design, implementation, quality assurance, professional, social and ethical issues.

Offered every year. 3 credits.

CS 453 Data Mining

Prerequisites: CS 242, CM 110, MA 150 or MA 302, UR 230

Topics include data warehousing and mediation techniques; data mining methods: rule-based learning, decision trees, association rules and sequence mining.

Offered every year. 3 credits.

CS 471 Artificial Intelligence

Prerequisites: CS 371,CS 242, EN 252

Introduction to central issues of constructing intelligence systems. Examines historical and future trends of Al research. Offered every 2 years. 3 credits.

CS 472 Robotics

Prerequisites: CS 253, CS 282

Design and implementation of robotic systems, sensors and sensing, effectors, mechanics, control strategies and architectures, hardware and software issues.

Offered every 2 years. 3 credits.

CS 483 Big Data Analytics Capstone

LASC - Major Capstone

Prerequisites: CS 353, CS 383, CS 453

The course introduces methods and techniques used for Big Data analysis. The course discusses Analytics tools for a variety of data applications and includes a major team project.

Offered every year. 3 credits.

CS 497 Selected Topics in Computer Science

Prerequisite: CS 282

Selection of topics of mutual interest to students and faculty.

1-6 credits.

CS 498 Internship

Prerequisites: Approval by vote of Computer Science faculty; 21 credit hours in Computer Science courses including CS 282.

Working in and for an organization where skills can be tested in real situations in order to gain experience, increase knowledge in various functional areas, and establish important contacts with an organization.

Offered every year. 3 credits.

CS 499 Independent Study

Prerequisites: 18 credit hours in Computer Science including CS 282 and approval by vote of Computer Science faculty.

An opportunity for advanced students to examine topics not normally taught in other computer science courses. Geared to interests of both the student and the instructor.

Offered every year. 1-6 credits.



Education Department of Education

DISCLAIMER: REGULATIONS FOR TEACHER LICENSURE ARE CURRENTLY UNDER REVIEW BY THE MASSACHUSETTS DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION. AS A RESULT, THE PROGRAMS DESCRIBED BELOW MAY BE SUBJECT TO CHANGE AT ANY TIME.

Associate Dean of Education

Raynold M. Lewis, Professor (1998), Associate Dean for Education BTh., West Indies College; M.Ed., Worcester State College; Ph.D., Illinois State University

Faculty

Christina L. Bebas, Associate Professor (2010)

B.A., Stonehill College; M.Ed., Worcester State College;

Ed.D., Northeastern University

Caroline M. Chiccarelli, Associate Professor (2001)

A.B., Newton College of the Sacred Heart; M.A., Fairleigh Dickinson University;

Ph.D., University of Connecticut

Diane Tighe Cooke, Professor (2002)

B.S., Louisiana State University; M.A.; Ph.D., University of Colorado, Boulder

Douglas R. Dawson, Associate Professor (2009)

B.A., Princeton University; Ph.D., University of California, Irvine

Carol B. Donnelly, Professor (1997)

A.B., Wellesley College; M.A., University of Miami; M.Ed., Harvard University;

Ed.D. Boston University

Denise Foley, Associate Professor (2010)

B.A., College of the Holy Cross; M.Ed., Bridgewater State College; C.A.G.S., Fitchburg State College; Ed.D., Indiana University of Pennsylvania

Sue Fan Foo, Department Chair, Professor (2004)

M.Ed., Ed.D., University of Cincinnati

Pamela Hollander, Assistant Professor (2012)

B.A., State University of New York, Binghamton; M.Ed., Rutgers University;

Ed.D., University of Massachusetts, Amherst

Susan R. Monaghan (2016)

B.S., University of Massachusetts, Amherst; A.M., Stanford University; Ph.D., Marquette University

Margarita Perez, Professor (1999)

B.A., Mount Holyoke College; M.A., Ed.D., Teachers College, Columbia University

Kirby L. Wycoff, Assistant Professor (2013)

B.A., Lehigh University; M.Ed., Teachers College, Columbia University;

Ph.D. Rutger's University

Sara L. Young, Associate Professor (2010)

B.A., School for International Training; M.S.T., New School for Social Research; Ed.D., University of Massachusetts, Amherst

The Education Department offers a wide range of undergraduate and graduate programs in professional education. Students can become licensed to teach in early childhood (PK-2) with and without disabilities, elementary (1-6), middle (5-8), or secondary (8-12) schools or credentialed to teach in preschool and day care programs. The department programs offer a blending of classroom and fieldwork approaches. Kappa Delta Pi, the International Honor Society in Education, is available to outstanding upper-division students. Graduate programs provide opportunities for students to prepare for careers in Reading, Educational Administration, Moderate Disabilities and School Psychology, as well as in Early Childhood, Elementary, Middle, or Secondary Education.

To teach in the Commonwealth of Massachusetts a teaching license is required. The Worcester State University Teacher Education program is recognized by the Massachusetts Department of Elementary and Secondary Education as having an approved program in the fields of Early Childhood Education, Elementary Education, Middle School Education and Secondary School Education. Students in the Elementary and Early Childhood Education programs have two complete majors, one in a liberal arts and science area and one in education. The Middle and Secondary school programs have a major in content and a minor in education. The Massachusetts Test for Educator Licensure (MTEL) is embedded in the program at various stages and must be passed for completion of the program and licensure.

The Initial Licensure Teacher Education Program at Worcester State University is awarded TEAC accreditation by the Inquiry Brief Commission of the Council for the Accreditation of Educator Preparation (CAEP) for a period of seven years, from May 2014 - May 2021. The accreditation does not include individual education courses that the Education Preparation Program offers to P-12 educators for professional development, re-licensure, or other purposes.

Early Childhood Education Major

The Early Childhood Education major prepares candidates for the Massachusetts Department of Elementary and Secondary Education Initial License as a teacher of children in public school classrooms, PK through grade 2. The program of studies is based upon a broad liberal arts foundation and an integrated professional teacher preparation program. A course waiver process is available for transfer students where appropriate. Fieldwork accompanies most education courses and is a necessary component of the program. Student prepracticum experiences include a wide variety of field settings. Students attend different and varied schools in urban, rural and suburban settings. They also vary their placements and grade levels in different school buildings within districts to insure a well rounded experience.

The Massachusetts Test for Educator Licensure (MTEL) is embedded in the program at various stages and must be passed for completion of the program and licensure.

Early Childhood Education Major Teacher Licensure Program (Massachusetts Public Schools, PK-2)

Requirements for a Major in Early Childhood Education leading to MA Department of Elementary and Secondary Education Initial Licensure (PK-2): 45 credits

ED 160 ED 206 ED 211	Early Childhood Education Today Young Children, Learning and Special Needs Integrating Science, Social Studies and the Arts into Early Childhood Education Curriculum
ED 214	Emergent Literacy
ED 304	Best Practices for English Language Learners
ED 307	ECE: Science
ED 308	ECE: Mathematics
ED 313	Practicum in Preschool Education
ED 340	Language Arts and Literacy for the Primary Grades
ED 386	Assessment and Adjustment to Practice in Early Childhood Education
ED 400	Inclusive Early Childhood Education: Preschool Grade 2
ED 405	Classroom Management and Child Guidance Techniques in Early
	Childhood Education
ED 430	Practicum in Primary Education (6 credits)

Prerequisite Courses:

MA 130	Numbers and Operations for Teachers
PS 210	Developmental Psychology

Recommended Courses:

HE 120	Health and Nutrition OR
HE 100	Personal Health
MA 132	Geometry, Measurement, Probability and Statistics for Teachers

Students are required to take specific liberal arts and science courses to satisfy foundation and distribution requirements.

Early Childhood Education Teacher Licensure majors must also complete an academic major in Biology, Chemistry, English, Geography, History, Mathematics, Liberal Studies, Natural Science, Psychology, Sociology, Spanish, or Visual and Performing Arts.

Admission to the Early Childhood Education Major

Early Childhood Education majors seeking the MA Department of Elementary and Secondary Education Initial License will progress through a three-stage process. Each stage must be satisfactorily completed before passage to the next stage.

Stage I: Early Childhood Major

- 1. Students demonstrate competence in communication skills by completing the following course with a grade of C or higher.
 - EN 102 English Composition II (or equivalent)
- Students demonstrate competence in Math with a grade of C or higher in the following course:
 - MA 130 Numbers and Operations for Teachers
- 3. Students must submit a Criminal Offender Records Information (CORI) application and be approved prior to beginning classroom observations in the Worcester Public Schools. No student is allowed to do fieldwork unless approval of the CORI has been received from the state. Before completion of ED 160, students must be finger printed through the Massachusetts designated agency (Morpho Trust USA Idento GO). Additional information regarding finger printing is available in the Education Department.
- 4. Students demonstrate potential for teaching children by completing all of the following courses with a grade of C+ or higher and earning a cumulative GPA of 2.5.
 - PS 210
 ED 160
 ED 206
 ED 211
 Developmental Psychology
 Early Childhood Education Today (5 hours fieldwork)
 Young Children, Learning, and Special Needs (10 hours fieldwork)
 Integrating Science, Social Studies and the Arts in Early
 Childhood Education (10 hours fieldwork)
 ED 214
 Emergent Literacy (10 hours fieldwork)
- 5. Students must receive a passing score on the Massachusetts Test for Educator Licensure (MTEL) Communication and Literacy Skills Test.
- 6. Any departure from the prescribed program of study for teacher licensure must have Waiver Committee approval prior to advancement to Stage II.

Stage II: Admission into the Early Childhood Licensure Program

 Upon satisfactory completion of Stage I requirements, students are eligible to apply for formal admission to the Early Childhood Education Licensure Program. The application must include MTEL test results and transcripts of all previous course work. Approval by the Education Department is necessary for a student to progress to Stage II.

During Stage II, students must complete all of the following courses with a grade of C+ or higher AND earn a cumulative GPA of 2.7. Fieldwork accompanies the following methods courses.

ED 304	Best Practices for English Language Learners
ED 307	ECE: Science (10 hours fieldwork)
ED 308	ECE: Math (10 hours fieldwork)
ED 313	Practicum in Preschool Education
ED 340	Language Arts and Literacy for the Primary Grades (10 hours fieldwork)
ED 386	Assessment and Adjustment to Practice in Early Childhood
	Education (5 hours fieldwork)
ED 400	Inclusive Early Childhood Education: Pre-school Grade 2

 After completing 90 credits of academic work, students may apply for formal admission into ED 313: Practicum in PK Education (corerequisite ED 400). This application will be reviewed and acted upon by the Licensure Officer. Additional information regarding formal application for the Preschool practicum is available from the Education Department.

Stage III: Early Childhood Education Major – Practicum

- Upon satisfactory completion of Stage II requirements, students are eligible to apply for formal admission into ED 430: Practicum in Primary Education (Corequisite ED 405).
- Students must have received a passing score on all portions of the Massachusetts
 Test for Educator Licensure (Communication and Literacy, Early Childhood, and
 Foundations of Reading).
- 3. Students must have attained senior standing (90 credits of course work) to complete the Primary Practicum.
- 4. This application will be reviewed and acted upon by the Licensure Officer.
- 5. Students convicted of a felony may be denied admission to student teaching.

Additional information regarding formal application for the Primary Practicum is available from the Education Department.

Department of Education: Early Childhood Education & Psychology Sample Timeline For Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
ED 160	Early Childhood Education Today	3
EN 101	English Composition I	3
LASC	First-Year Seminar	3
MA 130	Number and Operations for Teachers (LASC QR)	3
PS 101	General Psychology I (LASC HBS)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
HI 111	U.S. History I (LASC Const)	3
ED 206	Young Children Learning and Special Needs (LASC DAC)	3
PS 210	Development Psychology	3
GS 101	Physical Geography (LASC NSP)	3
	Semester Subtotal	15
Comments	Comments EN 101 & 102 satisfies LASC writing. Students should take the Communication and Literacy Skills portion of the MTEL after completing EN 102	

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
ED 211	Integrating Social Studies and Fine Arts in ECE	3
HI 112	US History II (LASC USW)	3
HE 100	Personal Health (LASC ICW)	3
MA 132	Geometry, Measurement, Probability & Statistics for Teachers (LASC QR)	3
PS 275	Psychological Statistics (LASC QLAC)	4
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
ED 214	Emergent Literacy (LASC WAC)	3
ED 339	Children's Literature: Multicultural Literature for PK-9 (LASC TLC)	3
PS 205	Research Methods	3
PS 330	Theories of Personality	3
ES 120	Integrated Science (LASC NSP)	4
	Semester Subtotal	16
Students should take the Foundations of Reading Portion of the MTEL by the beginning of their Junior year.		by the

YEAR THREE

Semester Five	•	
Course No.	Course Name	Credits
ED 307	Early Childhood Education Science	3
ED 340	Language Arts and Literature in the Primary Grades	3
MU 237	Music in Schools (LASC CA)	3
HI 103	World Civilization (LASC GP)	3
PS 318	Behavior Management Techniques	3
PS 345	Cognitive Psychology (LASC WAC)	3
	Semester Subtotal	18

Semester Six			
Course No.	Course Name	Credits	
ED 308	ECE: Mathematics (LASC QLAC)	3	
ED 386	Assessment and adjustment to practice in Early Childhood Education	3	
PS XXX	Psychology Elective	3	
PS 307	Applied Research Methods	3	
PS 252	Applied Social Psychology	3	
	Semester Subtotal	15	
Comments	Comments Students should take the Early Childhood portion of the MTEL by the end of their junior year.		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
ED 304	Best Practices for English Language Learners (LASC DAC)	3
PS 310	Develop of Exceptional Children	3
PS XXX	Psychology Elective	3
ED 400	Inclusive Early Childhood Education	3
ED 313	ECE: Preschool Practicum	3
	Semester Subtotal	15
Comments Students must successfully complete all sections of the MTEL before enrolling in ED 430 and ED 405		enrolling

Semester Eigh	nt	
Course No.	Course Name	Credits
ED 405	Classroom Management and Child Guidance in ECE (LASC CAP)	3
ED 430	Student Teaching in ECE: Primary Practicum	9
	Semester Subtotal	12

TOTAL CREDITS= 122

Students are required to meet with their department advisor each semester to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Elementary Education Major Teacher Licensure Program

The Elementary Education major prepares candidates for Initial Licensure as a teacher of children in a public school classroom, grades 1 through 6. The program of study is based upon a broad liberal arts foundation and an integrated professional teacher preparation program. A course waiver process is available for transfer students where appropriate. Fieldwork accompanies most education courses and is a necessary component of the program. Student prepracticum experiences include a wide variety of field settings. Students attend different and varied schools in urban, rural and suburban settings. They also vary their placements and grade levels in different school buildings within districts to insure a well rounded experience.

The Massachusetts Test for Educator Licensure (MTEL) is embedded in the program at various stages and must be passed for completion of the program and licensure.

Requirements for a Major in Elementary Education: 45 credits

ED 155	Teaching and Learning Elementary School
ED 250	Educational Psychology
ED 261	Foundations of Reading
ED 275	Curriculum and Instruction in Elementary Education
ED 304	Best Practices for English Language Learners
ED 306	Elementary Reading, Language Arts and Literature
ED 320	Elementary Science
ED 325	Elementary Math
ED 330	Elementary Social Studies and Multiculturalism
ED 375	Prepracticum Instruction, Classroom Management and Family and
	Community Engagement in the Flementary School

ED 425	Seminar: Applying Educational Principles
ED 435	Student Teaching in the Elementary School

Prerequisite Course:

MA 130	Number and Operations for Teachers
MA 131	Patterns, Functions and Algebra for Teachers
MA 132	Geometry, Measurement, Probability and Statistics for Teachers
PS 210	Development Psychology

Recommended Courses:

HE 100	Personal Health OR
HE 120	Health and Nutrition

Students will also be required to take specific liberal arts and science courses to satisfy LASC requirements.

Elementary Education majors seeking Initial Licensure must also complete an academic major in Biology, Chemistry, English, Geography, History, Mathematics, Liberal Studies, Natural Science, Psychology, Sociology, Spanish, or Visual and Performing Arts.

Admission to the Elementary Education Major

Students planning to major in Elementary Education will progress through a three-stage process. Each stage must be satisfactorily completed before passage to the next stage.

Stage I: Elementary Education Major

1. Students must demonstrate competence in communication skills by completion of the following course with a grade of C or higher:

EN 102 English Composition II (or equivalent)

2. Students must demonstrate competence in Math with a grade of C or higher in the following courses:

MA 130	Numbers and Operations for Teachers
MA 131	Patterns, Functions and Algebra for Teachers
MA 132	Geometry, Measurement, Probability and Statistics for Teachers

- 3. Students must submit a Criminal Offender Records Information (CORI) application and be approved prior to doing classroom observations in Worcester Public Schools. No student is allowed to do fieldwork unless approval of the CORI has been received from the state. Before completion of ED 155, students must be finger printed through the Massachusetts designated agency (Morpho Trust USA Idento GO). Additional information regarding finger printing is available in the Education Department.
- 4. Students demonstrate potential for teaching children by completing all of the following courses with a grade of C+ or higher AND earning a cumulative GPA of 2.5.

PS 210	Developmental Psychology
ED 155	Teaching and Learning in the Elementary School (5 hours fieldwork)
ED 250	Educational Psychology (10 hours fieldwork)
ED 275	Curriculum and Instruction in Elementary Education (10 hours fieldwork)
ED 261	Foundations of Reading

- Students must have received a passing score on the Communication and Literacy Skills Test (MTEL).
- 6. Any departure from the prescribed program of study for teacher licensure must have Waiver Committee approval prior to advancement to Stage II.

Stage II: Admission into the Elementary Education Licensure Program

- Upon satisfactory completion of Stage I requirements, the student is eligible to apply for formal admission to the Elementary Education Licensure Program. The application must include MTEL test results and transcripts of all previous course work. Approval by the Education Department is necessary for a student to progress to Stage II.
- During Stage II, students must complete all of the following courses with a grade of C+ or higher AND earn a cumulative GPA of 2.7. Fieldwork accompanies the following methods courses.

ED 304	Best Practices for English Language Learners
ED 306	Elementary Reading, Language Arts and Literature (20 hours fieldwork)
ED 320	Elementary Science (10 hours fieldwork)
ED 325	Elementary Math (10 hours fieldwork)
ED 330	Elementary Social Studies and Multiculturalism (10 hours fieldwork)
ED 375	Prepracticum: Instruction, Classroom Management and Family and
	Community Engagement in the Elementary School.

Stage III: Elementary Education Major - Practicum

- Upon satisfactory completion of Stage II requirements, the student is eligible to apply for formal admission into the Practicum, ED 435 Practicum Teaching: Elementary School (Corequisite ED 425).
- Students must have received a passing score on the Massachusetts Test for Educator Licensure (MTEL) in Communication and Literacy Skills, Foundations of Reading and the General Curriculum Test for Elementary Majors which includes a separately scored Mathematics subtest.
- 3. The Stage III application will be reviewed and acted upon by the Licensure Officer.
- 4. Students must have attained senior standing (90 credits of course work) to student teach.
- 5. Students convicted of a felony may be denied admission to student teaching.

Additional information regarding formal application into student teaching is available from the Education Department.

Department of Education: Elementary Education & Psychology Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
MA 130	Number and Operations for Teachers (LASC QR)	3
PS 101	General Psychology I (LASC HBS)	3
ED 155	Teaching and Learning in Elementary School	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
HI 111	U.S. History I (LASC USW)	3
MA 131	Patterns Functions and Algebra (LASC QR)	3
PS 210	Development Psychology	3
PS 250	Social Psychology	3
	Semester Subtotal	15
Comments EN 101 & 102 satisfies LASC writing. Students should take the Communication and Literacy Skills portion of the MTEL after completing EN 102		unication

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
ED 250	Educational Psychology	3
HI 112	U.S. History II (LASC Constitutions)	3
EN 132	World Literature (LASC GP, DAC)	3
MA 132	Geometry, Measurement, Probability & Statistics for Teachers (LASC QR)	3
PS 205	Research Methods	3
Semester Subtotal		15
Comments Students should take the Mathematics portion of the MTEL after completing MA 130, 131 and 132		pleting

Semester Four					
Course No.	Course Name	Credits			
ED 275	Curriculum and Instruction in Elementary Education	3			
PS 275	Psychological Statistics (LASC QLAC)	4			
TH 191	Introduction to Theatre (LASC CA)	3			
ED 261	Foundations of Reading	3			
LS 120	Integrated Science (LASC NSP)	4			
	Semester Subtotal	17			

YEAR THREE

Semester Five						
Course No. Course Name						
GS 101	Physical Geography (LASC NSP)	3				
ED 306	Elementary Reading Language Arts and Literature	6				
ED 325	Elementary Mathematics (LASC GRAC)	3				
PS 318	Behavior Management Techniques	3				
PS 325	Psychology of Learning (LASC WAC)	3				
	Semester Subtotal	18				
Comments	Students should take the Foundations of Reading portion of the MTE completing ED 306.	L after				

Semester Six					
Course No.	Course Name	Credits			
ED 330	Elementary Social Studies	3			
ED 304	Best Practices for English Language Learners (DAC)	3			
HE 100	Personal Health (LASC ICW)	3			
PS 335	Abnormal Psychology	3			
PS 345	Cognitive Psychology (LASC WAC)	3			
HI 104	World Civilization (TLC)	3			
	Semester Subtotal	18			

YEAR FOUR

Semester Seven						
Course No.	Course Name					
PS 307	Applied Research Methods	3				
PS 310	Development of Exceptional Children	3				
PS XXX	Psychology Elective	3				
ED 330	Elementary Social Studies and Multiculturalism	3				
ED 375	Prepracticum: Instruction Classroom Management and family and Community Engagement in the Elementary School					
Semester Subtotal 15						
Comments Students must successfully complete all sections of the MTEL before enrolling in ED 425 and ED 435						

Semester Eight					
Course No. Course Name					
ED 425 Seminar: Applying Educational Principles (LASC CAP)					
ED 435 Student Teaching in ELE					
	Semester Subtotal	12			

TOTAL CREDITS= 125

Students are required to meet with their department advisor each semester to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Middle School Education (Grades 5–8) Initial Teacher Licensure Program

Worcester State University offers the Initial Licensure Program in Middle School Education (grades 5-8). The Massachusetts Test for Educator Licensure (MTEL) is embedded in the program at various stages and must be passed for completion of the program and licensure.

Fieldwork accompanies most education courses and is a necessary component of the program. Student prepracticum experiences include a wide variety of field settings. Students attend different and varied schools in urban, rural and suburban settings.

They also vary their placements and grade levels in different school buildings within districts to insure a well rounded experience.

The Department of Elementary and Secondary Education offers Initial Licensure programs in the following areas in cooperation with liberal arts and sciences departments in the Worcester State University Education Program.

(5-8)
(5-8)
(5-8)
(5-8)
(5-8)
(PK-12)
(5-8)
(5-8)
(5-8)
(5-12)

For required courses in these areas students should consult their liberal arts/science advisor.

Admission Requirements: Undergraduate Program.

Students planning to minor in Middle School Education will progress through a three-stage process. Each stage must be completed satisfactorily prior to passage to the next stage. Students will major in the Liberal Arts and Science content area which they intend to teach.

Stage I: Middle School Education Minor

- 1. Students must complete EN 102 English Composition II with a grade of C or higher.
- 2. Students must complete 15 semester hours in the subject major.
- 3. Students must submit a Criminal Offender Records Information (CORI) application and be approved prior to beginning classroom observations for Education courses. No student is allowed to do fieldwork unless approval of the CORI has been received from the state. Before completion of ED 149, students must be finger printed through the Massachusetts designated agency (Morpho Trust USA Idento GO). Additional information regarding finger printing is available in the Education Department.
- 4. Students demonstrate potential for teaching children by completing all of the following courses with a grade of C+ or higher AND earning a cumulative GPA of 2.5.

ED 149	Introduction to the Teaching Profession (5 hours fieldwork)
ED 207	The Adolescent in Schools and Society
ED 251	Principles of Curriculum, Instruction and Assessment in Middle and
	High School (15 hours fieldwork)
ED 270	Diversity and Multicultural Education (20 hours fieldwork)

- Students must have received a passing score on the Massachusetts Test for Educator Licensure (MTEL) Communication and Literacy Skills Test.
- 6. Any departure from the prescribed program of study for teacher licensure must have Waiver Committee approval prior to advancement to Stage II.

Stage II: Admission into Middle School Education Licensure Program

 Upon satisfactory completion of Stage I requirements, the student is eligible to apply for formal admission into the middle school education minor. The application must include MTEL test results and transcripts of all previous course work. Approval by the Education Department is necessary for a student to progress to Stage II. During Stage II, students must complete all of the following courses with a grade
of C+ or higher AND earn a cumulative GPA of 2.7. Fieldwork accompanies the
following methods courses.

ED 304	Best Practices for English Language Learners
ED 352	Exceptionalities and Accommodating Diverse Learners in Middle
	School (10 hours fieldwork)
ED 354	Assessment Adjustments to Practice and Classroom Management in
	the Middle School (15 hours fieldwork)
ED 370	Methods and Materials in Science, Technology, Engineering and
	Mathematics (STEM) at the Middle and Secondary Level
	OR
ED 371	Methods and Materials in Humanities and Social Sciences at the
	MIddle and Secondary Level
ED 382	Prepracticum in Middle School. (Corerequisite with ED 370/371)

Students must have received a passing score on the Massachusetts Test for Educator Licensure (MTEL) in their major subject area and communication and literacy skills.

Stage III: Middle School Education Minor - Practicum

- Upon satisfactory completion of Stage II requirements, the student is eligible to apply for formal admission into the practicum, ED 485 Practicum in Teaching Middle School (9 credits), ED 424 Seminar (3 credits)
- Students must have received a passing score on the Massachusetts Test for the Educator Licensure (MTEL) in Communication and Literacy Skills and the subject matter area.
- 3. The Stage III application will be reviewed and acted upon by the Licensure Officer.
- 4. Students must have attained senior standing (90 credits of course work) to student teach.
- 5. Students convicted of a felony may be denied admission to student teaching.

Additional information regarding formal application into student teaching is available from the Education Department.

Secondary School Education (Grades 8–12) Initial Teacher Licensure Program

Worcester State University offers the Initial Licensure in Secondary School Education (grades 8-12). The Massachusetts Test for Educator Licensure (MTEL) is embedded in the program at various stages and must be passed for completion of the program and licensure.

Fieldwork accompanies most education courses and is a necessary component of the program. Student prepracticum experiences include a wide variety of field settings. Students attend different and varied schools in urban, rural and suburban settings. They also vary their placements and grade levels in different school buildings within districts to insure a well rounded experience.

The Department of Elementary and Secondary Education offers Initial Licensure programs in the following areas in cooperation with the liberal arts and sciences departments in the Worcester State University Education Program.

Teacher of English (8-12) Teacher of History (8-12)

Teacher of Political Science	(8-12)
Teacher of Mathematics	(8-12)
Teacher of Chemistry	(8-12)
Teacher of Biology	(8-12)
Teacher of Earth Science	(8-12)
Teacher of Health/Family and Consumer Sciences	(5-12)
Teacher of Spanish	(5-12)

For required courses in these areas, students should consult their liberal arts/science advisor.

Admission Requirements: Undergraduate Program

Students planning to minor in Secondary Education will progress through a three-stage process. Each stage must be completed satisfactorily prior to passage to the next stage. Students will major in Liberal Arts and Science content areas which they intend to teach.

Stage I: Secondary School Education Minor

- 1. Students must complete EN 102 English Composition II with a grade of C or higher.
- 2. Students must complete 15 semester hours in the subject major.
- 3. Students must submit a Criminal Offender Records Information (CORI) application and be approved prior to beginning observations for Education courses. No student is allowed to do fieldwork unless approval of the CORI has been received from the state. Before completion of ED 149, students must be finger printed through the Massachusetts designated agency (Morpho Trust USA Idento GO). Additional information regarding finger printing is available in the Education Department.
- 4. Students demonstrate potential for teaching children by completing all of the following courses with a grade of C+ or higher AND earn a cumulative GPA of 2.5.

ED 149	Introduction to the Teaching Profession (5 hours fieldwork)
ED 207	The Adolescent in School and Society
ED 251	Principles of Curriculum, Instruction and Assessment in Middle and
	High School (15 hours fieldwork)
ED 270	Diversity and Multicultural Education (20 hours fieldwork)

- Students must have received a passing score on the Massachusetts Test for Educator Licensure (MTEL) Communication and Literacy Skills Test.
- 6. Any departure from the prescribed program of study for teacher licensure must have Waiver Committee approval prior to advancement to Stage II.

Stage II: Admission into Secondary School Education Minor

OR

- Upon satisfactory completion of Stage I requirements, the student is eligible to apply for formal admission into the Secondary School Education minor. The application must include MTEL test results and transcripts of all previous course work. Approval by the Education Department is necessary for a student to progress to Stage II.
- During Stage II, students must complete all of the following courses with a Grade of C+ or higher AND earn cumulative GPA of 2.7. Fieldwork accompanies the following methods courses:

ED 304	Best Practices for English Language Learners
ED 351	Exceptionalities and Accommodating Diverse Learners in the
	Secondary School (10 hours fieldwork)
ED 353	Assessment, Adjustment to Practice and Behavior Management in the Secondary School (15 hours fieldwork)
ED 370	Methods and Materials in Science, Technology, Engineering and Mathematics (STEM) at the Middle and Secondary Level

ED 371	Meth	Methods and Materials in Humanities and Social Sciences at the							
	Mldo	le and	Sec	onda	ary Le	vel			
	_			_				 	(()

ED 383 Prepracticum in Secondary School. (Corerequisite with ED 370/371)

3. Students must receive a passing score on the Massachusetts Test for Educator Licensure (MTEL) in their major subject area and communication and literacy skills.

Stage III: Secondary School Education Minor – Practicum

- Upon satisfactory completion of Stage II requirements, the student is eligible to apply for: ED 480 Practicum in Teaching Secondary School (9 credits), ED 424 Seminar (3 credits)
- 2. Students must have received a passing score on the Massachusetts Test for the Educator Licensure (MTEL) in Communication and Literacy Skills and the subject matter area.
- 3. The Stage III application will be acted upon by the Licensure Officer.
- Students must have attained senior standing (90 credits of course work) to student teach.
- Students convicted of a felony may be denied admission to student teaching. 5. Additional information regarding formal application into student teaching is available from the Education Department.

Early Education and Care Program

(Early Intervention, Head Start, Private Preschool, and Group Day Care)

The Early Childhood Education major prepares students to enter the field of Early Education and Care and work in areas such as Early Intervention, Head Start, private preschool and group day care. The program integrates studies in liberal arts and sciences with the guidelines and standards presented by the MA Department of Early Education and Care. Fieldwork accompanies most education courses and is a necessary component of the program. A course waiver process is available for transfer students, and articulation agreements are in place with regional community colleges.

Requirements for Early Education and Care: 33 Credits

ED 160 ED 206	Early Childhood Education Today Young Children, Learning, and Special Needs
ED 211	Integrating Science, Social Studies and the Arts into ECE Curriculum
ED 214	Early Literacy with Young Children
ED 307	ECE: Science
ED 308	ECE: Math
ED 313	Practicum in Preschool Education
ED 319	Advanced Field Experience in Early Childhood Education
ED 340	Language Arts and Literacy for the Primary Grades
ED 386	Assessment of Development and Learning of Typical and Atypical Children
ED 400	Inclusive ECE

Prerequisite Course:

PS 210 **Development Psychology**

Recommended Courses:

ED 304	Best Practices for English Language Learners.
HE 120	Health and Nutrition OR
HE 140	Creative Arts and Health
MA 130	Numbers and Operations for Teachers
MA 132	Geometry Measurement Probability and Statistics for Teachers

Students are required to take specific liberal arts and science courses to satisfy foundation and distribution requirements. See the student's advisor and consult degree audit.

Early Education and Care majors must either complete an academic major in the arts or sciences offered at Worcester State University and approved by the Department or complete a cluster of 30 credits of course work which address the MA Department of Early Education and Care's Core Teacher Competencies. A list of possible courses is available in the Education Department.

Admission into the Early Education and Care Major

Early Education and Care students will progress through a three-stage process. Each stage within this track must be satisfactorily completed before passage to the next stage.

Stage I: Early Education and Care

- 1. Students demonstrate competence in communication skills by completing the following course with a grade of C or higher.
 - EN 102 English Composition II (or equivalent)
- Students must submit a CORI application and be approved prior to beginning classroom observations in the Worcester Public Schools. No student is allowed to do fieldwork unless approval of the CORI has been received from the state.
- Students demonstrate potential for teaching children by completing all of the following courses with a grade of C+ or higher in AND earning a cumulative GPA of 2.5 or higher.
 - ED 160 Early Childhood Education Today
 - ED 206 Young Children, Learning, and Special Needs
 - ED 211 Integrating Science, Social studies and the Arts in Early
 - Childhood Education
 - ED 214 Emergent Literacy
- 4. Any departure from the prescribed program of study must have Waiver Committee approval prior to advancement to Stage II.

Stage II: Admission into Early Education and Care

 Upon satisfactory completion of Stage I requirements, the student is eligible to apply for formal admission to the Early Education and Care Program. The application must include transcripts of all previous course work. Approval by the Education Department is necessary for a student to progress to Stage II.

During Stage II, students must complete all of the following courses with a grade of C+ or higher.

Stage II will consist of the following courses. Fieldwork accompanies the following methods courses.

- ED 307 ECE: Science ED 308 ECE: Math
- ED 340 Language Arts and Literacy for the Primary Grades
- ED 386 Assessment and Adjustment to Practice in Early Childhood Education

Stage III: Early Education and Care Practicum

- 1. ED 313 Practicum in Preschool Education
 - *ED 319 Advanced Field Experience in Early Childhood Education
 - ED 400 Inclusive Early Childhood Education
 - *90 credits must be completed prior to taking ED 319. ED 400 should be taken as a corequisite with ED 313.

Students must apply for formal admission to ED 313 and ED 319: Advanced
Field Experience in Early Childhood Education. This application will be reviewed
and acted upon by the Licensure Officer. Additional information regarding formal
application for the advanced practicum is available from the Education
Department.

This program provides preparation for certification through the Department of Early Education and Care as a Lead Teacher for Preschool.

Note: This program does not lead to Massachusetts Department of Elementary and Secondary Education public school licensure. Students who complete this program and apply to the WSU post-baccalaureate non-degree initial licensure program must provide evidence that they have worked in the field for 3 years. Any departure from the prescribed program of study must have approval from the Department Chair.

Education Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

MOST EDUCATION COURSES REQUIRE FIELDWORK

ED 101 MTEL Preparation for the Communication and Literacy Test

Students work with faculty to prepare for the Communications and Literacy subtest of the MA test for Educational Licensure. May be taken more than one time.

Offered every year. 1 institutional credit. Credits do not count toward graduation

ED 102 MTEL Preparation for the General Curriculum Multi-subject or Early Childhood Tests and Literacy Test

Students work with faculty to prepare for the General Curriculum Multi-subject or Early Childhood subtest of the MA test for Educational Licensure. May be taken more than one time.

Offered every year. 1 institutional credit. Credits do not count toward graduation

ED 103 MTEL Preparation for the Foundation of Reading Test

Students work with faculty to prepare for the Foundation of Reading subtest of the MA test for Educational Licensure. May be taken more than one time.

Offered every year. 1 institutional credit. Credits do not count toward graduation

ED 104 MTEL Preparation for the Mathematics Subtest of the General Curriculum Test

Students work with faculty to prepare for the Mathematics portion of the General Curriculum subtest of the MA test for Educational Licensure. May be taken more than one time.

Offered every year. 1 institutional credit. Credits do not count toward graduation

ED 120 The Educational Experience Through Memoirs

LASC - Thought Language and Culture; Diversity Across the Curriculum

Explores educational issues through reading memoirs on teaching and being a student focused on diversity. Provides advanced reading strategies.

Offered every year. 3 credits.

ED 149 Introduction to the Teaching Profession, Middle/Secondary School

LASC-Human Behavior and Social Processes

This course will provide a basic understanding to the teaching aspects in middle and secondary classrooms. It will explore the Massachusetts Department of Education Professional Standards for Teachers and give students a general orientation to the profession. Principles of the teaching/learning process and related skills will be addressed, in addition to observable behaviors in the classroom setting(s). Students will be required to do 10 fieldwork observation hours in an accredited middle/secondary school.

Offered every year. 3 credits. Fieldwork: 5 hrs.

ED 155 Teaching and Learning in Elementary School

LASC-Individual and Community Well-Being

Overview of the teaching profession, examination of a variety of learning environments, organizing and managing classrooms, integrating curricula, observational techniques.

Offered every year. 3 credits. Fieldwork: 5 hrs.

ED 160 Early Childhood Education Today

LASC-Human Behavior and Social Processes

Exploration of programs, emphasizing developmentally appropriate practice, creativity motor skills. Discussion of families, community resources, play, integration of special needs.

Offered every year. 3 credits. Fieldwork: 5 hrs.

ED 193 Special Topics in Education for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year 3 credits.

ED 206 Young Children, Learning and Special Needs

LASC-Individual and Community Well-Being; Diversity Across the Curriculum

Prerequisites: ED 160

Analysis of development and learning based on current psychological theory. Structuring experiences to foster progress for typical and atypical children.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 207 The Adolescent in Schools and Society

LASC-Individual and Community Well Being

Prerequisite: PS 101

This course will investigate the educational, psychological, social and environmental factors related to adolescents in school settings.

Offered every year. 3 credits.

ED 211 Integrating Science, Social Studies and the Arts in Early Childhood Curriculum

Prerequisites: PS 210, ED 160, ED 206

Designing and implementing programs, physical environment, regulations, planning, Massachusetts Curriculum Frameworks. Students design integrated units and implement activities.

Offered every year, 3 credits, Fieldwork: 10 hrs.

ED 214 Emergent Literacy

LAS-Writing Across the Curriculum

Prerequisite: Admitted into Stage II

Early literacy skills, content and approaches include construction of meaning with written and spoken language, written language forms and functions, letter-sound relationship, phonemic awareness, vocabulary development and assessment. Methods of teaching second language are included.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 250 Educational Psychology

Prerequisite: PS 210

Introduces lesson planning, literacy demands, curriculum development and assessment strategies at the middle and high school level.

Offered every year. 3 credits. Fieldwork: 15 hrs.

ED 251 Principles of Curriculum, Instruction and Assessment in Middle and High School

Prerequisites: ED 149 and ED 207

Critical examination of social, psychological, and philosophical factors, which underlie educational thought and practices in America, noting relevant historical antecedents.

Offered every year. 3 credits. Fieldwork: 15 hrs.

ED 261 Introduction to the Foundations of Reading

This course provides an opportunity for prospective elementary and early childhood level teachers to acquire a strong foundation in current knowledge, perspective and procedures for teaching literacy in grades PK through 6. Offered every year. 3 credits.

ED 270 Diversity and Multicultural Education

Prerequisites: PS 210, ED 250, ED 251

Analysis of goals, values and practices in educating culturally diverse student populations. Includes bilingual, special needs and gifted students.

Category 1. 3 credits. Fieldwork: 20 hrs.

ED 271 International and Comparative Education

LASC-Global Perspectives, Individual and Community Well Being

This course compares the educational policies to practices and outcomes to two or more countries. Offered every year. 3 credits.

ED 275 Curriculum and Instruction in Elementary Education

LASC-Writing Across the Curriculum

Prerequisites: ED 155, ED 250, and PS 210

Analysis of interactions in effective elementary schools through participation in and exploration of curriculum, teaching and learning roles. Field experience.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 304 Best Practices for English Language Learners

LASC-Thought Language and Culture; Diversity across the curriculum

Prerequisites: ED 270, ED 275 or ED 286

Research-based grade level subject matter instructional strategies, and performance assessments of English Language Learners are the focus of discussions and class projects.

Offered every year. 3 credits.

ED 305 Teaching Adult ESL and SIFE (Students with Interrupted Formal Education)

LASC - Human Behavior and Social Processes; Diversity Across the Curriculum

Prerequisites: 9 Credits in Education including ED 148

Designed to enhance teacher effectiveness in the adult ESL classroom taking into consideration their unique circumstances.

Offered every year. 3 credits.

ED 306 Elementary Reading, Language Arts and Literature

Prerequisite: Admitted into Stage II

Stresses interrelationships of oral/written communication; investigates concepts, skills and procedures for teaching literacy and using children's literature in grades 1-6.

Offered every year. 6 credits. Fieldwork: 20 hrs.

ED 307 ECE: Science

Prerequisite: Admitted into Stage II

Teaching strategies that focus upon exploration, discovery, problem solving, experimentation, Piagetian theory. Addresses nationally recognized science education curricula guidelines.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 308 ECE: Math

LASC-Quantitative Literacy Across the Curriculum

Prerequisite: Admitted into Stage II

Focus on Piaget's early mathematical theory. Techniques include teaching pre-math skills, logical mathematical knowledge, formal math using developmentally appropriate materials.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 313 Practicum in Early Childhood Education: Preschool/Kindergarten

Prerequisites: Admitted into Stage II, Senior Status

150 hour practicum in an NAEYC accredited preschool/kindergarten/licensed day care center. Student apply content, methods, and materials from college courses.

Offered every year. 3 credits.

ED 319 Advanced Field Experience in Early Childhood Education

Prerequisite: ED 313 or equivalent

Students who have already completed a preschool practicum complete an additional 100-150 hour field experience in Early Childhood Education.

Offered every year. 3 credits.

ED 320 Elementary Science

Prerequisite: Admitted into Stage II

Thematically taught emphasizing engaging hands-on activities, constructivism, cooperative learning, authentic assessments, integrated curriculum, and relationships between Science, Math and Technology Curriculum Frameworks. Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 325 Elementary Math

LASC-Quantitative Literacy Across the Curriculum

Prerequisite: Admitted into Stage II

Emphasizes best practices in mathematics education, the role of conceptual knowledge in understanding mathematics, material development and assessment.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 330 Elementary Social Studies and Multiculturalism

Prerequisite: Admitted into Stage II

Goals, curriculum, skills, issues, teaching strategies in educating culturally diverse population in a global context. Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 339 Children's Literature: Multicultural Literature for PK-9

LASC-Human Behavior and Social Processes; Thought Language and Culture; Diversity Across the Curriculum Facets of literature for children and criteria for the selection of each; techniques and preparation and use. Offered every year. 3 credits

ED 340 Language Arts and Literacy for the Primary Grades

Early literacy/language arts content, curriculum materials, and approaches including phonological awareness, phonics, vocabulary, fluency, comprehension, writing and assessment.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 351 Exceptionalities and Accommodating Diverse Learners in Secondary Schools

Prerequisite: Admitted into Stage II

Exploration of learning disabilities and other exceptionalities. Addresses strategies to differentiate secondary school curriculum to meet student needs.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 352 Exceptionalities and Accommodating Diverse Learners in Middle Schools

Prerequisite: Admitted into Stage II

Exploration of learning disabilities and other exceptionalities. Addresses strategies to differentiate middle school curriculum to meet student needs.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 353 Assessment, Adjustment to Practice, and Classroom Management in the Secondary School

Prerequisite: Admitted into Stage II

Explores classroom management and development and analysis of assessment strategies and data to inform secondary school teaching.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 354 Assessment, Adjustment to Practice, and Classroom Management in the Middle School

Prerequisite: Admitted into Stage II

Explores classroom management and development and analysis of assessment strategies and data to inform secondary school teaching.

Offered every year. 3 credits. Fieldwork: 10 hrs.

ED 370 Methods and Materials in Science, Technology, Engineering, and Mathematics (STEM) at the Middle and Secondary Level

Prerequisite: Admitted into Stage II

Teaching methods and advanced curriculum course for STEM fields including math, health, and the sciences. Taken concurrently with prepracticum.

Offered every year. 3 credits.

ED 371 Methods and Materials in Humanities and Social Sciences at the Middle and Secondary Level

Prerequisite: Admitted into Stage II

Teaching methods and advanced curriculum course for humanities fields, including English, World Language, and History/Political Science. Taken concurrently with prepracticum.

Offered every year. 3 credits.

ED 375 Prepracticum: Instruction, Classroom Management and Family and Community Engagement in the Elementary School

Prerequisite: ED 306

Prepracticum experience in an elementary classroom, addressing accommodations of ELL's and children with disabilities, classroom management, and family/community engagement.

Offered every year. 3 credits

ED 382 Prepracticum Experience in Middle Schools

Prerequisite: Admitted into Stage II

Prepracticum experience in the subject areas and at the level of the license which the candidate is pursuing. Taken concurrently with ED 370 or ED 371.

Offered every year. 1 credits

ED 383 Prepracticum Experience in Secondary Schools

Prerequisite: Admitted into Stage II

Prepracticum experience in the subject areas and at the level of the license which the candidate is pursuing. Taken concurrently with ED 370 or ED 371.

Offered every year. 1 credits

ED 386 Assessment and Adjustment to Practice in Early Childhood Education

Prerequisites: PS 210, ED 160, ED 206, ED 211

Development of skills to asses young children and identify special needs. Analyzing assessment data and adjusting practice to improve learning.

Offered every year. 3 credits. Fieldwork: 5 hrs.

ED 400 Inclusive Early Childhood Education: Preschool through Grade 2

LASC - Major Capstone

Prerequisite: Admitted into Stage II

Special education law and procedures, modification of programs for English language learners, working with parents, and developing and implementing an anti-bias curriculum.

Offered every year. 3 credits.

ED 405 Classroom Management and Child Guidance Techniques

LASC - Major Capstone

Guided analysis/application of principles for students completing a primary practicum. Analysis of behavior, group and individual management strategies.

Offered every year. 3 credits.

ED 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

ED 410 Special Topics

Prerequisite: ED 155 or equivalent

A seminar course on current issues or topics in education.

ED 424 Seminar: Teaching Practicum

LASC - Major Capstone

Prerequisite: Admitted into Stage III

Implications of the attempts to juxtapose theory and practice are analyzed from the viewpoint of becoming a professional teacher.

Offered every year. 3 credits.

ED 425 Seminar: Applying Educational Principles

LASC - Major Capstone

Prerequisite: Admitted into Stage III

Guided analyses and applications of principles and procedures for students completing their practicum.

Offered every year. 3 credits.

ED 430 Practicum in Early Childhood Education: Grade 1 or Grade 2

Prerequisite: Admitted into Stage III

Semester-long 200-hour practicum in first or second grade. Planning, implementing, evaluating learning. Setting includes children with special needs.

Offered every year. 9 credits.

ED 435 Practicum in Teaching: Elementary School

Prerequisite: Admitted into Stage III

Principles, techniques, and responsibility of planning, executing, and evaluating teaching and learning for a full semester

Offered every year. 9 credits. 300 hr. Practicum.

ED 450 Independent Study in Education

Prerequisite: Consent of instructor

For the student who wishes to pursue independent study in education, faculty members from other disciplines may be called upon to counsel student.

Offered every year. 1-6 credits.

ED 475 Practicum in Teaching

Prerequisite: Admitted into Stage III

Actual teaching in a local school: principles, techniques, and responsibility of planning, executing, and evaluating teaching and learning for a full semester.

Offered every year. 9 credits.

ED 480 Practicum in Teaching Secondary School

Prerequisite: Admitted into Stage III

Full semester teaching experience in a secondary school. Includes planning, teaching and evaluating learning experiences.

Offered every year. 9 credits. 300 hr. Practicum.

ED 485 Practicum in Teaching Middle School

Prerequisite: Admitted into Stage III

Full semester teaching experience in a middle school. Includes planning, teaching and evaluating learning experiences.

Offered every year. 9 credits. 300 hr. Practicum.

Environmental ScienceDepartment of Earth, Environment and Physics

Faculty

Timothy L. Cook, Assistant Professor (2012)

B.S., Brown University; M.S., University of Delaware; Ph.D., University of Massachusetts

Meghna Dilip, Associate Professor (2008)

B.Sc., University of Madras, India; M.Sc., Anna University, India;

M.S., Ph.D., The University of Alabama

Allison Dunn, Associate Professor (2007)

B.A., Oberlin College; M.A., Ph.D., Harvard University

Nirvana Filoramo, Assistant Professor (2011)

B.S., University of Massachusetts, Amherst; M.S., Iowa State University;

Ph.D., University of Connecticut

William J. Hansen, Associate Professor, Department Chair (2005)

B.A., State University of New York, Albany; M.A., Hunter College;

Ph.D., City University of New York Graduate Center

Margaret E. Kerr, Professor (2000)

B.S., University of Maine; Ph.D., Wesleyan University

Douglas E. Kowalewski, Assistant Professor (2012)

B.S., Virginia Polytechnic Institute; Ph.D., Boston University

Kathleen Murphy, Assistant Professor (2014)

B.S., College of William and Mary, M.S., Ph.D., University of Massachusetts, Amherst

Steven J. Oliver, Professor, Department Chair (2003)

B.A., University of Montana; Ph.D., Boston University

Randall Tracy, Professor (2003)

B.S., M.S., University of Connecticut; Ph.D., Arizona State University

Sebastián Vélez, Assistant Professor (2012)

B.S., University of Puerto Rico; M.S., University of Notre Dame;

Ph.D., Harvard University

Environmental Science is an interdisciplinary science major for students interested in scientific aspects of human interactions with the natural world. Course work includes fundamental concepts in biology, chemistry, earth science and physics and emphasizes an

interdisciplinary approach to environmental science. The major provides a broad foundation, introducing students to scientific techniques, analyses and tools for assessing human impacts on environmental systems and for mitigating or remediating environmental harm. Hands-on field and laboratory investigations of environmental systems are emphasized in course work and through opportunities for guided research with faculty mentors.

The Environmental Science major provides a pathway into a variety of careers and graduate programs. The major is appropriate for students interested in careers in education, environmental conservation. natural resource management, environmental consulting, planning, and a wide variety of specialized scientific disciplines. Environmental science majors are well prepared for graduate studies in the earth and environmental sciences as well as diverse fields such as business, law, environmental management or sustainability studies.

Requirements for a major in Environmental Science.	67 credits
Required Foundation Courses	43 credits
MA 150 Statistics or MA 302 Probability and Statistics	3
MA 190 Pre-calculus or MA 200 Calculus I CS 135 Programming for non-CS Majors	4 3
GS 165 Geographic Information Systems	4
EV 150 Introduction to Environmental Science	3
One environmental policy course: GE 258 Global Environmental Change GE 240 Energy Conservation	3
GS 101 Physical Geography	3
GS 140 Physical Geology	4
BI 140 Organismal Biology	4
CH 120 – 121 General Chemistry I & II PY 221 or PY 241 Physics I	8
•	•
Intermediate Courses BI 202 Ecology Two of the following	10 credits 4
GS 225 Oceanography	3
GS 250 Hydrology	3
GS 260 Soil Science	3

Advanced Courses 11 credits

Four environmental science electives approved by the student's advisor. Must include at least two 300- or 400-level courses and at least one lab course. [A list of appropriate BI, CH and GS courses at the 200 level or higher will be published each semester for advising purposes.]

Capstone	3 credits
EV 400 Environmental Science Seminar	3

Students in the Environmental Science major are not required to take LASC NSP or QR courses outside of the major. Students are required to meet with their department advisor to review their upcoming semester academic choices.

Department of Earth, Environment and Physics Environmental Science Major Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
MA 150	Statistics (or MA 302)	3
EV 150	Intro. to Environmental Science	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions Course	3
LASC	Distribution Elective (HBS*)	3
MA 190	Precalculus (or MA 200+)	4
GS 140	Physical Geology	4
	Semester Subtotal	17

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
PY 221	General Physics I (or PY 241)	4
GS 165	Geographic Information Systems	4
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (TLC*)	3
LASC	Distribution Elective (USW*)	3
	Semester Subtotal	17

Semester Four		
Course No.	Course Name	Credits
BI 140	Intro to Organismal Biology	4
Policy	GE 240 (fall) or 258 (spring)	3
CS 135	Programming for non-CS Majors	3
LASC	Distribution Elective (CA*)	3
LASC	Distribution Elective (GP*)	3
	Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CH 120	General Chemistry I	4
GS 250	Hydrology	3
GS 260	Soil Science	3
LASC	Distribution Elective (DAC*)	3
Select	General Elective	3
	Semester Subtotal	16

Semester Six		
Course No.	Course Name	Credits
CH 121	General Chemistry II	4
BI 202	Ecology (WAC)	4
GS 225	Oceanography (QLAC)	3
xx 2xx	[Major] Elective	3
Select	General Elective	3
	Semester Subtotal	17-18

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
xx 2xx	[Major] Elective	3-4
хх Зхх	[Major] Elective	3-4
Select	General Elective	3
Select	General Elective	3
Select	General Elective	3
	Semester Subtotal	15-17

Semester Eigh	t		
Course No.	Course Name		Credits
EV 400	Environmental Sci. Seminar (CAP)		3
хх Зхх	[Major] Elective		3-4
Select	General Elective		3
Select	General Elective		3
Select	General Elective		3
		Semester Subtotal	15-16

TOTAL CREDITS = 128-132

Notes: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements. Across the curriculum LASC requirements may be met by major courses.

Environmental Science Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

EV 120 Integrated Environmental Science for Educators

LASC - Natural Systems and Processes (Laboratory Course)

Introduction to the scientific method. Physical, biological and earth sciences as applied to problems in environmental science. Three lecture hours and two laboratory hours per week.

Offered every year. 4 credits.

EV 150 Environmental Science

LASC - Natural Systems and Processes

Interdisciplinary scientific study of human impacts on natural systems. Introduction to fundamental concepts and tools of environmental impact analysis.

Offered every year. 3 credits.

EV 193 Special Topics in Environmental Science for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. 3 credits.

EV 199 Special Topics in Environmental Science

Prerequisite: Consent of the instructor

Lecture or laboratory course in selected areas of Environmental Science presented by departmental instructor. Topics will be announced in advance.

1-6 credits

EV 400 Environmental Science Seminar

Prerequisite: Senior Environmental Science major and permission of the instructor.

A capstone course. Independent projects include studying scientific literature, summarizing peer-reviewed articles, preparing science lessons with experiments, preparing resumes.

Offered every year. 3 credits.

EV 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

1-6 credits.

EV 410 Independent Study in Environmental Science

Prerequisite: Consent of department

Opportunity for advanced students to pursue a topic of special interest involving extensive reading, experimentation, and research.

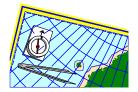
1-6 credits.

EV 412 Special Topics in Environmental Science

Prerequisite: Consent of department

Intended for the undergraduate who wishes to undertake study of selected topics in Environmental Science of mutual interest to student and faculty.

1-6 credits.



Geography and Earth SciencesDepartment of Earth, Environment and Physics

Faculty

Patricia A. Benjamin, Associate Professor (2001)

B.A., University of Oregon; M.L.S., University of Maryland; Ph.D., Clark University

Timothy L. Cook, Assistant Professor (2012)

B.S., Brown University; M.S., University of Delaware; Ph.D., University of Massachusetts

Allison Dunn, Associate Professor (2007)

B.A., Oberlin College; M.A., Ph.D., Harvard University

William J. Hansen, Associate Professor, Department Chair (2005)

B.A., State University of New York, Albany; M.A., Hunter College;

Ph.D., City University of New York Graduate Center

Douglas E. Kowalewski, Assistant Professor (2012)

B.S., Virginia Polytechnic Institute; Ph.D., Boston University

Alexander R. Tarr, Assistant Professor (2016)

B.A., University of Southern California; Ph.D., University of California, Berkley

Geography is a science that examines physical and social processes and their interrelationships through the integrative concept of space. Earth systems science analyzes the systems and processes that shape the earth's surface including weather, climate, landforms and hydrology. Human geography analyzes social processes such as globalization, demographics, urbanization and the construction of cultural identities. Environmental geography examines the interactions between social and physical systems. Geographers explore these processes using such tools as maps, geographic information systems and remote sensing techniques.

Membership in Gamma Theta Upsilon, the international geography honor society, is available to distinguished students. Prospective members must have completed a minimum of 3 geography or earth science courses, have a GPA of at least 3.3 overall in those courses, and shall have completed at least 3 semesters of college course work. A prospective member is not required to be a geography major or minor.

Geography Honors Program: The Geography Honors Program is intended for outstanding majors interested in research as well as those who plan to pursue an advanced degree. Honors students will complete an original research project, defend the project before an approved review committee and present the project in at least one venue external to WSU. Applicants shall have completed the geography core courses through GE 315 and have

75 credits overall. Applicants should have a 3.5 GPA in the major although students with a 3.0 major GPA and a faculty sponsor may petition for admission. Application materials are available from the department chair.

Requirements for a Major: Minimum requirement for the major is completion of a six-course (20 credit) core curriculum and one of four concentrations. Students will declare a concentration in either General Geography, Environmental Studies, Geographic Information Systems, Earth System Science, or Earth Science Education. Study Away/Study Abroad is strongly encouraged for geography majors.

Core Courses:

	Core Total	20 credits
GE/GS 400	Geography Seminar	<u>3</u>
GE 315	Research Methods	3
GS 165	Geographic Information System	4
GS 140	Physical Geology	4
GE 102	Human Geography	3
GS 110	Meteorology	
or		
GS 101	Physical Geography	3

Requirements for the Concentration in General Geography

In addition to the six core courses, students will complete:

At least 1 advanced course (200-400 level) in:	
Physical Geography	3
Human Geography	3
2 advanced courses in any category	<u>6</u>

Concentration Total 12 credits Major Total 32 credits

Requirements for the Concentration in Earth System Science

In addition to the six core courses, students will complete:

Ancillary requirements (may apply to LASC requirements):

MA 190	Precalculus	4
One of the f	ollowing	4
CH 112	Survey of Chemistry	
CH 120	General Chemistry I	
PY 221	General Physics I	
PY 241	Physics I	

Required core courses:

GS 210	Geomorphology	4
GS 224	Oceanography	3
GS 230	Biogeography	3

Core electives:12

4 upper level courses at the 200+ level, including one earth science course at the 300+ level. No more than one geography (GE) or geospatial course can be counted toward this requirement

Concentration Total	22 credits
Major Total	42 credits

Requirements for the Concentration in Environmental Studies:

In addition to the six core courses, students will complete:

neuulleu Coul	equired Courses:
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GE 258 Global Environmental Change 3
Two courses in Physical Geography or
GIS (200-400 level) 6

Three of the following: GE 240 Energy Conservation

GS 240 Coastal Environments

GS 285 Sustainable Communities

GE 307 American Public Lands: Environmental Issues

GE 308 Environment and Development

GE 312 Sustainable Food Systems

GE 341 Fundamentals of Renewable Energy or GE 342 Sustainable Housing

GE/GS 470 Selected Topics (with approval)

One of the following:

4

42 credits

9

GE/GS 460 Geography Internship

GE/GS 410 Independent Study in Geography GE/GS 450 Readings and Directed Research

Concentration Total 22 credits

Requirements for the Concentration in Geographic Information Systems (GIS)

In addition to the six core courses, students will complete:

Maior Total

Prerequisites:

To be taken by the time the student has accumulated 21 credits in the major:

CS 135 Programming for Non-CS Majors

MA 150 Statistics I

Required Courses:

GS 218 Remote Sensing 3 GS 318 GIS II 3 Three Additional Courses 9

Three 200-400 level courses in either physical or human Geography. Students are encouraged to focus on one area. Regional courses are not appropriate.

One of the following:

GS/GE 410 Independent Study

GS/GE 450 Readings/Directed Research

GS/GE 460 Internship

Concentration Total 18 credits Major Total 38 credits

Requirements for the Concentration in Earth Science Education (45 credits)

In addition to the six core courses, students will complete:

Ancillary requirements (may apply to LASC requirements):

MA 130 Number and Operations for Teachers

MA 131 Patterns, Functions and Algebra for Teachers

MA 132 Geometry, Measurement, Probability and Statistics for Teachers

MA 190 Precalculus or any MA course at 200 level or above

BI 140 Introduction to Organismal Biology

BI 202 Principles of Ecology

CH 110 Introduction to General, Organic, and Biochemistry

(May substitute CH 120 & 121 General Chemistry I and 11)

PY 101 Astronomy

PY 221-222 General Physics I and II (or PY 241-242 Physics I and 11)

Required courses:

13 credits

36 credits

GS 110 Meteorology

GS 225 Oceanography

GS 250 Hydrology

GS 270 Sedimentary Record

Electives:

12 credits

4 earth science electives at the 200+ level, including one earth science course at the 300+ level. No more than one geography (GE) or geospatial course can be counted toward this requirement.

Concentration Total 25 credits
Maior Total 45 credits

Requirements for the Geography Minor

Students will complete 19 credits including:

GS 101	Physical Geography	3
GE 102	Human Geography	3
GS 165	Geographic Information Systems I	4

Three electives, 200 level or above, one each in physical and human geography and one in any category.

Department of Earth, Environment and Physics Geography Major: General Geography Concentration* Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
LASC	Math (QR)	3
GE 102	Human Geography	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions course	3
LASC	Distribution Elective (TLC**)	3
LASC	Distribution Elective (GP**)	3
2 LASC	Physical Geology	4
	Semester Subtotal	16

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
GS 165	Geographic Information Systems	4
GS/GE	Elective (200 level or above)	3
LASC	Distribution Elective (HBS**)	3
LASC	Distribution Elective (ICW**)	3
LASC	Distribution Elective (CA**)	6
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
GS/GE	Elective (200 level or above)	3
LASC	Lab Science (NSP**)	3-4
LASC	Distribution Elective (QR**)	3
LASC	Distribution Elective (USW**)	3
LASC	Distribution Elective (DAC**)	6
	Semester Subtotal	15-16

YEAR THREE

Semester Five	Semester Five		
Course No.	Course Name	Credits	
GE 315	Research Methods	3	
GE/GS	Elective (200 level or above)	3	
LASC	Distribution Elective (NSP**)	3-4	
Select	General Elective	3	
Select	General Elective	3	
	Semester Subtotal	15-16	

Semester Six		
Course No.	Course Name	Credits
GE/GS	Elective (200 level or above)	3
LASC	Distribution Elective (WAC**)	3
LASC	Distribution Elective (QLAC**)	3
Select	General Elective	3
Select	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
Select	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
GE/GS 400	Senior Seminar (CAP)	3
Select	General Elective	3
	Semester Subtotal	15

TOTAL CREDITS = 122-124

Notes: *Students in this concentration typically have a second major, often education. For those students, many of the "general electives" would represent the second major and timing of LASC requirements may change. The sequence of LASC courses marked with ** is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Department of Earth, Environment and Physics Geography Major: Earth System Science Concentration Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
LASC	Distribution Elective (GP*)	3
GE 102	Human Geography	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions course	3
LASC	MA 190 Precalculus (QR/Math)	3
LASC	Distribution Elective (TLC*)	3
GS 140	Physical Geology	4
	Semester Subtotal	16

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
GS 165	Geographic Information Systems I	4
ESS core	GS 210, 225 or 230	3-4
LASC	CH 110/120 or PY 221/241(NSP*LAB)	4
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (CA*)	3
	Semester Subtotal	17-18

Semester Four		
Course No.	Course Name	Credits
ESS core	GS 210, 225 or 230	3-4
ESS core	GS 210, 225 or 230	3-4
LASC	Distribution Elective (USW*)	3
LASC	Distribution Elective (HBS*)	3
LASC	Distribution Elective (DAC*)	4
	Semester Subtotal	15-17

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
GE 315	Research Methods	3
ESS	ESS Elective	3
LASC	Distribution Elective (QR*)	3
LASC	Distribution Elective (WAC*)	3
Select	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
ESS	ESS Elective	3
ESS	ESS Elective	3
LASC	Distribution Elective (NSP*)	3
LASC	Distribution Elective (QLAC*)	3
Select	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
Select	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
GS 400	Senior Seminar (CAP)	3
Select	General Elective	3
	Semester Subtotal	15

TOTAL CREDITS = 122-125

Note: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Department of Earth, Environment and Physics Geography Major: Environmental Studies Concentration Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
LASC	Math (QR)	3
GE 102	Human Geography	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions course	3
LASC	Distribution Elective (TLC*)	3
LASC	Distribution Elective (GP*)	3
GS 140	Physical Geology	4
	Semester Subtotal	15

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
GS 165	Geographic Information Systems I	4
GE	Environmental Elective	3
LASC	Distribution Elective (HBS*)	3
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (CA*)	3
	Semester Subtota	al 16

Semester Four		
Course No.	Course Name	Credits
GE 258	Global Environmental Change	3
GS	Physical or GIS Elective	3
LASC	Lab Science (NSP*)	3-4
LASC	Distribution Elective (USW*)	3
LASC	Distribution Elective (DAC*)	3
	Semester Subtotal	15-16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
GE 315	Research Methods	3
GE	Environmental Elective	3
LASC	Distribution Elective (QR*)	3
LASC	Distribution Elective (WAC*)	3
Select	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
GS	Physical or GIS Elective	3
GE	Environmental Elective	3
LASC	Distribution Elective (NSP*)	3
LASC	Distribution Elective (QLAC*)	3
Select	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
GE/GS	410, 450 or 460	4
Select	General Elective	3
	Semester Subtotal	16

Semester Eight		
Course No.	Course Name	Credits
GE 400	Senior Seminar (CAP)	3
Select	General Elective	3
	Semester Subtotal	15

TOTAL CREDITS = 123-124

NOTE: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Department of Earth, Environment and Physics Geography Major: GIS Concentration Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
LASC	MA 150 Statistics (QR/Math)	3
GE 102	Human Geography	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions course	3
LASC	Distribution Elective (TLC*)	3
GS 165	Geographic Information Systems	4
GS 140	Physical Geology	4
	Semester Subtotal	17

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
GS 218	Remote Sensing	3
LASC	CS 135 Programming Non-CS (QR)	3
LASC	Lab Science (NSP*)	3-4
LASC	Distribution Elective (CA*)	3
LASC	Distribution Elective (HBS*)	3
	Semester Subtotal	15-16

Semester Four		
Course No.	Course Name	Credits
GS 318	Geographic Information Systems II	4
GS/GE	Elective (200 level or above)	3
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (GP*)	3
LASC	Distribution Elective (USW*)	3
	Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
GE 315	Research Methods	3
GS/GE	Elective (200 level or above)	3
LASC	Distribution Elective (NSP*)	3
LASC	Distribution Elective (WAC*)	3
Select	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
GS/GE	Elective (200 level or above)	3
LASC	Distribution Elective (DAC*)	3
LASC	Distribution Elective (QLAC*)	3
Select	General Elective	3
Select	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
GE/GS	410, 450 or 460	3
Select	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
GS 400	Senior Seminar (CAP)	3
Select	General Elective	3
	Semester Subtotal	15

TOTAL CREDITS = 124-125

NOTE: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Department of Earth, Environment and Physics Geography Major: Earth Science Education concentration Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
LASC	EN 101 English Composition I	3
LASC	Distribution Elective (TLC*)	3
MA 130	Number and Operations (QR)	3
GS 101	Physical Geography	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	EN 102 English Composition II	3
LASC	Constitutions course	3
MA 131	Patterns for Teachers (QR)	3
GE 102	Human Geography	3
GS 140	Physical Geology	4
	Semester Subtotal	16

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
GS 165	Geographic Information Systems I	4
GS 230	Biogeography	3
BI 140	Organismal Biology (NSP/Lab)	4
MA 132	Geometry for Teachers	3
LASC	Distribution Elective (CA*)	3
	Semester Subtotal	17

Semester Four			
Course No.	Course Name		Credits
GS 210	Geomorphology (QLAC)		4
GS 225	Oceanography		3
MA 180	[if needed; or take BI 202 WAC)		3-4
LASC	Distribution Elective (USW*)		3
LASC	Distribution Elective (GP*)		3
		Semester Subtotal	16-17

YEAR THREE

Semester Five			
Course No.	Course Name	Credits	
GE 315	Research Methods	3	
GS 250	Hydrology	3	
MA 190	Precalculus	4	
PY 221	General Physics I or PY 241 (NSP)	4	
LASC	Distribution Elective (ICW*)	3	
	Semester Subtotal	17	

Semester Six		
Course No.	Course Name	Credits
GS 2xx+	ESS Elective	3
CH 110	Intro to Chem	4
PY 222	General Physics II (or PY 242)	4
GS 110	Meteorology	3
LASC	Distribution Elective (HBS*)	3
	Semester Subtotal	17

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
GS 2xx+	ESS Elective	3
GS 3xx+	ESS Elective	3
GS 270	Sedimentary Record	4
PY 101	Astronomy	4
Select	General Elective	3
	Semester Subtotal	16

Semester Eight			
Course No.	Course Name	Credits	
GS 400	Senior Seminar (CAP)	3	
GS 2xx+	ESS Elective	3	
LASC	Distribution Elective (DAC*)	3	
Select	General Elective	3	
Select	General Elective	3	
	Semester Subtotal	15	

TOTAL CREDITS = 129

Note: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Geography Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

GE 102 Human Geography

LASC-Global Perspectives; Human Behavior and Social Processes

Introduction to human geography, emphasizing globalization, human-environment relations and spatial patterns of population, development, economics, politics, urbanization and culture.

Offered every year. 3 credits.

GE 110 World Regional Geography I

LASC-Global Perspectives; Human Behavior and Social Processes

Analysis of the physical, cultural and economic regions of Eurasia.

Offered every year. 3 credits.

GE 111 World Regional Geography II

LASC-Global Perspectives; Human Behavior and Social Processes

Analysis of the physical, cultural and economic regions of Africa, Oceania and the Americas.

Offered every year. 3 credits.

GE 130 Introduction to Energy Studies

Foundation concepts in energy studies. Overview of environmental and societal implications of energy systems – past, present and future.

Offered every year. 3 credits.

GE 193 Special Topics in Geography or Earth Science for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

GE 195 Special Topics

Introductory course to be offered on a trial basis. Topic to be announced in advance 1-6 credits.

GE 210 Geography of North America

Prerequisite: ONE of the following: GE/GL 102, GE/GL 111, HI 111, HI 112, SO 100, UR 101 or permission of instructor Analysis of the physical and human geography of North America.

Offered every 3 years. 3 credits.

GE 240 Energy Conservation

Concepts, technologies and policies for energy conservation. Inefficiencies of current systems; technical and social changes for energy efficiency.

Offered every year. 3 credits

GE 250 Urban Geography

LASC-Human Behavior and Social Processes

Prerequisite: GE/GL 102 or UR 101 or permission of instructor

World urbanization; location and central place concepts; economy of cities; land use patterns; urban environmental problems.

Offered every year. 3 credits.

GE 255 Geography of Africa

Prerequisite: ONE of the following: GE/GL 102, GE/GL 111, GL 150, SO 100, SO 110, UR 101 or permission of instructor LASC— Global Perspectives; Diversity Across the Curriculum

Analysis of the physical and human geography of Africa.

Offered every year. 3 credits.

GE 258 Global Environmental Change

Prerequisite: ONE of the following: GE/GL 102, GS 101, GL 150, EV 150, UR 101, CH 106 or permission of instructor Introduction to the science, political economy and ethics of global environmental change.

Offered every year. 3 credits.

GE 285 Sustainable Communities

LASC - Human Behavior and Social Processes; United States and Its Role in the World

Prerequisite: ONE of the following: GE/GL 102, GL 150, EC 110, EC 120 or permission of instructor

Exploration of changes in U.S. and global economic landscape, 1970 to present. Approaches to sustainable economic development.

Offered every year. 3 credits.

GE 299 Special Topics

Prerequisite: Permission of instructor

Intermediate level course to be offered on a trial basis. Topic to be announced in advance.

1-6 credits.

GE 307 American Public Lands: Environmental Issues

Prerequisite: GE 258 or permission of instructor

Exploration of environmental management issues on U.S. public lands such as national parks, national forests,

BLM lands.

Offered every 3 years. 3 credits.

GE 308 Environment and Development

Prerequisite: GE 258 or permission of instructor

The global ecology of rich and poor. Environmental implications of poverty, economic development, mass consumption, globalization and demographic change.

Offered every 3 years. 3 credits.

GE 312 Sustainable Food Systems

Prerequisite: GE 102 and any 200 level GE, GS, SO or UR course or permission of instructor

Overview of the structure, evolution, costs and benefits of the global food system. Exploration of local and global

Offered every 3 years. 3 credits.

GE 315 Geographic Research Methods

Prerequisites: GE 102, GS 101, GS 140, GS 165

Overview of the research process; research design in human, physical and environmental geography; quantitative, qualitative and cartographic methods.

Offered every year. 3 credits.

GE 341 Fundamentals of Renewable Energy

Prerequisite: GE 130 or GE 240 or permission of instructor

Analysis of renewable energy concepts, policy and politics. Technologies and methods for renewable energy capture, storage and distribution.

Offered every year. 3 credits

GE 342 Sustainable Housing

Prerequisite: GE 130 or GE 240 or permission of instructor

Principles of green design with an emphasis on building construction. Material and energy flows, choice of materials,

designing for sustainability.

Offered every year. 3 credits

GE 400 Geography Seminar

Prerequisites: GE 102, GS 101, GS 140, GS 165, GE 315 and senior standing (or permission of department chair) Capstone course for geography majors. Students conduct independent research projects and present their findings. Offered every year. 3 credits.

GE 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

GE 410 Independent Study in Geography

Opportunity for advanced students to pursue a topic of special interest involving extensive reading, experimentation, and research.

1-6 credits.

GE 450 Readings and Directed Research

Prerequisites: All department requirements for major fulfilled.

Directed study on selected topics; open to senior majors. 3 credits

GE 460 Geography Internship

Prerequisites: All department requirements for major fulfilled.

Students assigned to various government and private agencies under joint supervision of agency and faculty. 1-6 credits.

GE 470 Selected Topics in Geography

Topic or subject to be announced in advance; topic to be relevant to student needs and interests and subject to availability of professor.

1-6 credits.

Earth Science Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

GS 101 Physical Geography

LASC-Natural Systems and Processes

Introduction to earth systems and processes. Characteristics and distribution of landforms, climates, water, soils, plants and animals.

Offered every year. 3 credits.

GS 110 Meteorology

LASC-Natural Systems and Processes; Quantitative Literacy Across the Curriculum

Weather elements, frontal storms, air mass characteristics, winds, temperature, precipitation, and pressure patterns throughout the world; weather instruments, forecasting.

Offered every year. 3 credits.

GS 140 Physical Geology

LASC-Natural Systems and Processes (Laboratory Course); Quantitative Literacy Across the Curriculum

Introduction to geological science: rocks and minerals, internal and external geologic processes, topographic map and air photo analysis, local field study. Three hours lecture and one two-hour laboratory.

Offered every year. 4 credits.

GS 150 Humans and Cold Regions

LASC-Natural Systems and Processes

Winter intersession. Examines earth's cold regions, including physical geography, cryosphere's role in earth systems, human adaptations. Includes outdoor activity.

Offered every year. 3 credits.

GS 165 Geographic Information Systems I

LASC-Natural Systems and Processes

Introduction to the digital production of maps using ArcG/S software.

Offered every year. 4 credits.

GS 193 Special Topics in Earth Science for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

GS 195 Special Topics

Introductory course to be offered on a trial basis. Topic to be announced in advance 1-6 credits.

GS 210 Geomorphology

Prerequisite: GS 101 or GS 140; Accuplacer score of 3 or successful completion of a college level math course

LASC-Quantitative Literacy Across the Curriculum

The study of landforms and the processes that form them. Labs focus on interpretation of maps and aerial photographs. Three hours lecture and one two-hour laboratory.

Offered every year. 4 credits.

GS 218 Introduction to Remote Sensing

LASC: Natural Systems and Processes

Prerequisite: ONE of the following: GS 101 or GS 140, EV 150, BI 101, BI 140 or permission of instructor

Introduction to the use and analysis of remotely sensed images such as aerial photographs and satellite imagery. Offered every year. 3 credits.

GS 220 Earth History

Prerequisite: GS 140

Historical evolution of the earth, its surface features, and life forms through geologic time.

Offered every 3 years. 3 credits.

GS 225 Oceanography

Prerequisite: ONE of the following: GS 101 or GS 140, GS 110, EV 150 or permission of instructor

LASC: Quantitative Literacy Across the Curriculum

The principles of physical, chemical, biological, and geological oceanography.

Offered every year. 3 credits.

GS 230 Biogeography

Prerequisite: ONE of the following: GS 101, BI 101 or BI 140 or permission of instructor

The distribution patterns of plants and animals, processes affecting this distribution, and how these patterns change in space and time.

Offered every year. 3 credits.

GS 235 Contemporary Climate Change

Prerequisite: ONE of the following: GS 101, GS 110, EV 150, CH 106 or permission of instructor

The global climate system, factors influencing climate, recent climate change and the role of human activity. Offered every year, 3 credits.

GS 240 Coastal Environments

Prerequisite: GS 101 or GS 140 or permission of instructor

Summer session course examining the physical geography of coastal environments including human impacts.

Includes field trips.

Offered every year. 3 credits.

GS 245 Planetary Geology

Prerequisites: GS 140 or PY 101 or permission of instructor

Solar system formation and evolution with emphasis on planetary interiors and surface features.

Offered every 3 years. 3 credits.

GS 250 Hydrology

Prerequisite: ONE of the following: GS 101, GS 140, GS 110, EV 150 or permission of instructor

Hydrologic processes, their estimation and measurement. Includes precipitation, evaporation, runoff, groundwater and water resources management.

Offered every other year. 3 credits.

GS 260 Introduction to Soil Science

Prerequisite: GS 101 or GS 140 or permission of instructor

The study of the formation, processes, classification and composition of soils with emphasis on environmental applications, including wetland delineation.

Offered every other year. 3 credits.

GS 270 The Sedimentary Record

Prerequisite: GS 140 and either GS 101 or GS 110

Theoretical, laboratory, and field investigations of modern sedimentary processes; depositional environments; the sedimentary record of earth history; principles of stratigraphy. Three hours lecture and one three-hour lab.. Offered every other year. 4 credits.

GS 299 Special Topics

Prerequisite: Permission of instructor

Intermediate level course to be offered on a trial basis. Topic to be announced in advance.

1-6 credits.

GS 318 Geographic Information Systems II

Prerequisite: GS 165 (formerly GS 165)

Advanced production of digital maps using a GIS vector oriented software.

Offered every other year. 3 credits

GS 335 Hydrogeology

Prerequisites: GS 140 or GS 250; Accuplacer score of 3 or successful completion of a college level math course

LASC—Quantitative Literacy Across the Curriculum

Underground water and its movement. Aquifer identification and test; wells, contamination and remediation, ground

water as a geologic agent.

Offered every other year. 3 credits.

GS 365 Climate Change over Earth History

Prerequisite: EN 102, GS 140 or GS 235 or permission of instructor

LASC - Writing across the curriculum

A record of change climate on Earth; methods used to reconstruct past climates; relevance of past changes to the current climate.

Offered every other year. 3 credits.

GS 370 Lakes and Environmental Change

LASC-Writing Across the Curriculum

Prerequisites: GS 140 and at least one earth science course 200 level or above, or permission of instructor; EN 102 Modern physical, biogeochemical, and sedimentary processes in lakes. Lake sediment as archives of past climate and environmental change. Includes fieldwork. Two hour lecture and one two-hour lab.

Offered every other year. 4 credits.

GS 400 Geography Seminar

Prerequisites: GE 102, GS 101, GS 165, GS 140, GE 315 and senior standing (or permission of department chair) Capstone course for geography majors. Students conduct independent research projects and present their findings. Offered every year. 3 credits.

GS 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

GS 410 Independent Study in Geography

Opportunity for advanced students to pursue a topic of special interest involving extensive reading, experimentation, and research.

1-6 credits.

GS 450 Readings and Directed Research

Prerequisites: All department requirements for major fulfilled.

Directed study on selected topics; open to senior majors.

3 credits.

GS 460 Geography Internship

Prerequisites: All department requirements for major fulfilled.

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GS 470 Selected Topics in Geography

Topic or subject to be announced in advance; topic to be relevant to student needs and interests and subject to availability of professor.

1-6 credits.



Faculty

Nancy Brewer, Professor (2000)

CHES, B.S., University of Pittsburg; M.Ed., Ph.D., The Pennsylvania State University

Mariana Cecilia Calle, Assistant Professor (2012)

B.S., University of Buenos Aires, Argentina; M.S., Ph.D., University of Connecticut

Syamak Moattari, Assistant Professor, Department Chair (2015)

M.D., Shahid Beheshti Medical University; Dr PH, Boston University

Catherine Worsnop, Assistant Professor (2016)

B.A., Colby College; Ph.D., Brandeis

The Department of Health Sciences offers the following programs in health: Bachelor of Science in Health Education, which combined with an optional minor in Education, can lead to initial licensure certification; Bachelor of Science in Public Health; and a dual-degree Bachelor of Science in Public Health followed by a Bachelor of Science in Nursing at the Massachusetts College of Pharmacy and Health Sciences University.

Major courses provide basic knowledge and basic practice skills that prepare students to pursue careers in a variety of health related professions.

Membership in a national health honor society, Eta Sigma Gamma, is available to students who maintain a minimum 3.0 average.

All health courses in the majors, minors, the concentration, require a minimum grade of C/2.0. Courses may not be taken pass/fail; courses may be repeated.

Students in this department may major or minor in health sciences. No student may do both.

Required ancillary courses must average an overall minimum of 2.0. In the Public Health/ Pre-Nursing program each course must receive a minimum grade of C.

Health Sciences graduates are eligible to take the Certified Health Education Specialist exam (CHES) administered by the National Commission for Health Education Credentialling (NCHEC).

Public Health Major

The goal of the 39-credit Public Health Major is to prepare health practitioners in the public health disciplines of wellness, health promotion and holistic disease prevention; as well as in community health services through cooperative, multi-disciplinary experiences. Coursework focuses on developing knowledge of various determinants affecting health from global to local perspectives in health needs.

Major Req	uired (Courses 2	4 Credits
HC 2	201	Introduction to Public Health	3 Credits
HC 2	202	Introduction to Global Health (DAC)	3 Credits
HC 2	203	Introduction to Epidemiology (GP, NSP, QAC, ICW)	3 Credits
HC 2	28	Health Ethics or PH 131 Med. Ethics	3 Credits
HE 3	90	Environmental Health	3 Credits
HC 4	15	Community Health Planning and Promotion	3 Credits
HC 4	-25	Research Seminar (CAP/WAC)	3 Credits
HC 4	-50	Practicum (CAP/WAC)	3 Credits

Electives (Between Major and Interdisciplinary Options)

15 Credits

Major Electives: 3-6 Credits (1 or 2 courses)

HE 120	Health and Nutrition	3 Credits
HC 220	Health Policy	3 Credits
HC 234	Multiculturalism and Health	3 Credits
HC 350	Group Process	3 Credits
HE 350	Community Health Education (GP, ICW, DAC)	3 Credits
HC 403	Department Workshop in Community Health	3 Credits
HE 450	Independent Study	3 Credits

Interdisciplinary Electives: 9-13 Credits (3-4 courses)

See Health Sciences Department for list of approved courses.

Required Ancillary Courses (18-20 Credits):

BI	161	Anatomy & Physiology I	4 Credits
BI	162	Anatomy & Physiology II (NSP Lab)	4 Credits
BI	206	Medical Microbiology (NSP Lab)	4 Credits
		OR	
BI	207	Microbiology for Public Health	3 Credits
CH	112	Survey of Chemistry	4 Credits
PS	275	Psychological Statistics (QR or QLAC)	4 Credits
		or MA 150 (MA/QR)	3 Credits

Department of Health Sciences: Public Health Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar (FYS)	3
EN 101	English Composition I (WR)	3
MA 1XX	Any Math Course (MA/QR)	3
HC 201	Introduction to Public Health	3
LASC	Distribution Elective (ICW)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (WR)	3
PS 101	General Psychology (HBS)	3
HC 202	Introduction to Global Health (DAC)	3
CH 112	Survey of Chemistry (NSP #1)	4
BI 161	Anatomy and Physiology I	4
	Semester Subtotal	17

YEAR TWO

SemesterThree		
Course No.	Course Name	Credits
LASC	Distribution Course (CON)	3
HC 203	Introduction to Epidemiology (GP, NSP, QAC, ICW)	3
BI 162	Anatomy & Physiology II (NSP #2)	4
LASC	Distribution Elective (CA)	3
BI 206 or BI 207	Medical Microbiology (NSP/Lab) OR Public Health Microbiology	4 or 3
	Semester Subtotal	16-17

Semester Four			
Course No.	Course Name		Credits
LASC	Distribution Elective (GP)		3
HC 228 or PH 131	Health Ethics or Medical Ethics		3
Elective	Major/Interdisciplinary Elective #1		3
Elective	Major/Interdisciplinary Elective #2		3
PS 275 (or MA 150)	Psychological Statistics (QR #2 / QAC)		4
		Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
LASC	Distribution Elective (TLC)	3
Elective	Major/Interdisciplinary Elective #2	3
Elective	Distribution Elective #3	3
HE 390	Environmental Health	3
	Semester Subtotal	12

Semester Six		
Course No.	Course Name	Credits
LASC	Distribution Elective (USW)	3
HC 425	Research Seminar	3
Elective	Major/Interdisciplinary Elective #4	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
HC 415	Community Health Planning and Promotion	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
Elective	Major/Interdisciplinary Elective #5	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
HC 450	Practicum (CAP/WAC)	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
Elective	Free Elective	3
	Semester Subtotal	12
Comments		

TOTAL CREDITS=> 120

Note: LASC Distribution Electives, do not have to follow this order.

Students are **required** to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Health Education Major

The goal of the Health Education major is to prepare graduates to be critical and creative thinkers as well as lifelong learners in the dynamic field of health education. Coursework and fieldwork focus on developing the knowledge, understandings, competencies, and experiences required of professionals teaching health education in a variety of community settings. Worcester State University also offers Initial Licensure for health education programs in middle and secondary education (grades 5-12); the Massachusetts Tests for Educator Licensured (MTEL) must be passed for licensure. All students in the Health Education major and Education minor will need an advisor from each of these departments.

ΗE	100	Personal Health
ΗE	120	Health and Nutrition
ΗE	200	Consumer Health
ΗE	220	Mental Health Education
ΗE	230	Human Sexuality and Sex Education
ΗE	275	Fitness for Life
ΗE	285	Drugs and Society
ΗE	390	Environmental Health
HC	415	Community Health Planning and Promotion
ΗE	440	Practicum in Health

Major Electives Requirement: 9 Credits (without Education minor)

(n.b. Evening and summer courses may be necessary)

With Education minor (in lieu of Health electives and Health Practicum)

PS	312	Psychology of Adolescence (pre-req: PS 101 and PS 210)
ED	149	Introduction to Teaching Profession
ED	250	Educational Psychology
ED	251	Foundations of Education
ED	270	Multicultural Education
ED	351/2	Principles and Evaluation
ED	353/4	Effective Teaching
ED	370/1	Contemporary Issues
ED	424	Seminar
ED	480/485	Practicum in Teaching (replaces HE 440: Practicum in Health and
	HE 445	Practicum Seminar)

Required Ancillary Courses for Health Education major: 20 credits

The following courses combined must average C or better.

BI	161	Human Anatomy and Physiology I
BI	162	Human Anatomy and Physiology II (NSP Lab)
PS	101	General Psychology and PS Elective (Education Minors PS 101, PS
		210, and PS 312)
SO	100	Introduction to Sociology
SO	275	PS 275 Psychological Statistics (QAC or QR)
		or MA 150 Statistics (MA/QR)

Department of Health Sciences: Health Education Sample Timeline for Completion of Degree

YEAR ONE

Semester One	•	
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I (WR)	3
MA 1XX	Any Math Course (MA/QR)	3
HE 100	Personal Health	3
PS 101	General Psychology (HBS)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (WR)	3
PS 275 OR MA 150	Statistics	3-4
SO 100	Intro. to Sociology	3
HE 200	Consumer Health	3
BI 161	Anatomy and Physiology I	4
	Semester Subtotal	16-17

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
LASC	Distribution Course (CON)	3
HE 120	Health and Nutrition	3
HE 220	Mental Health Education	3
LASC	Distribution Elective (ICW)	3
BI 162	Anatomy and Physiology II (NSP)	4
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
LASC	Distribution Elective (USW)	3
LASC	Distribution Elective (GP)	3
HE 230	Human Sexuality/Sex Education	3
LASC	Distribution Elective (NSP2)	3
Elective	Major Elective #1	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five	•	
Course No.	Course Name	Credits
LASC	Distribution Elective (DAC)	3
HE 275	Fitness for Life	3
Elective	Major Elective #2	3
HE 390	Environmental Health	3
Elective	Psychology Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
LASC	Distribution Elective (TLC)	3
LASC	Distribution Elective (CA)	3
HE 285	Drugs and Society	3
Elective	Major Elective #3 (if required)	3
Elective	Distribution Elective	3
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
HC 415	Community Health Planning and Promotion	3
Elective	Distribution Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
HE 440	Practicum (CAP, WAC)	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
Elective	Distribution Elective	3
	Semester Subtotal	12
Comments		

TOTAL CREDITS= 120

Note: LASC Distribution Electives do not have to follow this order.

Students are **required** to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Health Minors

Note: Students may not major and minor in this discipline.

Health Education Minor: 18 credits

The minor is designed to develop an in-depth understanding the Certified Health Education Specialist (CHES) competencies for planning health programs based on an assessment of community needs and capabilities and followed by a program implementation and evaluation.

Requirements:

HC 415	Community Health Planning and Promotion	3 credits
Electives:	Health Education and/or Public Health courses	15 credits

Public Health Minor: 21 credits

The minor is designed to develop an in-depth understanding of the core areas and competencies of the public health discipline by introducing students to various determinants affecting health from global, national, community, and local perspectives.

Requirements:

HC 201	Introduction to Public Health	3 credits
HC 202	Introduction to Global Health (DAC)	3 credits
HC 203	Introduction to Epidemiology (GP, NSP, QAC, ICW)	3 credits
HC 415	Community Health Planning and Promotion	3 credits
Electives:	from Interdisciplinary and health courses	9 credits

Health Fitness Minor: 18 credits plus 7 prerequisite credits for PE 210 Foundations of Strength and Conditioning (BI 161 Anatomy and Physiology, 4 credits, and either HE 170 Humans in Motion, 3 credits, or BI 271 Basic Kinesiology, 3 credits).

The minor encompasses both the knowledge and skills required in the growing field of Health Fitness. Applications focus on improving health and fitness at both the individual and population levels.

A minimum grade of 2.0 must be earned in required and elective courses. Prerequisites must average a minimum of 2.0

Requirements:

HE	120	Health and Nutrition	3 credits
PE	210	Foundations of Strength and Conditioning	3 credits
PE	220	Survey of Athletic Training	3 credits
Elective	s 9 cred	its from:	
PE/HE	150	Health and Physical Education for the Teacher	3 credits
SO/PE	190	Sport and Society	3 credits
PE	240	Athletic Programs	3 credits
PE/HE	260	First Aid: Advanced Theory & Skills	3 credits
PE/HE	275	Fitness for Life	3 credits
PE/HE	280	Stress Management	3 credits
HE	285	Drugs and Society	3 credits
PE	420	Practicum in Health Fitness	3 credits

Health Concentration

Note: concentration in Health cannot be taken with a major in the Health discipline. Interdisciplinary Concentration in Public Health and Social Justice: 15 credits

The Concentration is designed to develop an educated citizenry who will examine the determinants of health from global, national, community and local perspectives.

Requirements:

HC	201	Introduction to Public Health	3 credits
HC	202	Introduction to Global Health (DAC)	3 credits
HC	203	Introduction to Epidemiology (QLAC/NSP)	3 credits
Eloo	tivoo: 6	aradita from approved interdiggiplinary list	

Electives: 6 credits from approved interdisciplinary list.

Public Health - Pre-Nursing Program

The Public Health - Pre-Nursing Program is a dual-degree based on a formal affiliation agreement that admits a limited number of students into an articulated program that begins with 83 credits at WSU in the Public Health/Pre-Nursing program and continues with the accelerated Bachelor of Nursing program at the Massachusetts College of Pharmacy and Health Sciences University ("MCPHS University") Worcester or Manchester, NH campus. At the completion of the appropriate 37 credits (of the 63 required) at MCPHS University, the student transfers those credits back to WSU, and earns a Bachelor of Science in Public Health. The student then completes the additional number of appropriate credits (26) at MCPHS University to earn the B.S. in Nursing. Students should see the advisor in the Health Sciences department assigned to the program. *Please see the entrance requirements in this catalog*.

The Bachelor of Science in Public Health requires the following 83 credits at WSU followed by the 63 credits in Nursing which will be taken at the MCPHS University campus in either Worcester or Manchester, NH.

B.S. PUBLIC HEALTH (WSU)/B.S. NURSING (MCPHS University)

WSU Dual Degree Entrance Requirements

High School GPA 3.0 and SAT CR and MA total of 1000 (or ACT 21). Students for whom English is not their first language must also submit a TOEFL with a score of 213 or higher or a minimum of 90 on the iBT.

WSU Curriculum Requirements

- Complete 83 required credits at WSU with a minimum GPA of 2.5 during either 4 semesters and 2 summer sessions or 5 semesters.
- No grade below a C (2.0) in Public Health major courses or required ancillary courses - BI 161, BI 162, BI 206, CH 112, PS 210 and either PS 275 or MA 150.
- · Courses may not be re-taken.
- Transfer ancillary courses require prior written approval of MCPHS University.
- LASC courses may receive grades lower than C or be taken pass/fail.

An Intent to Transfer/Enroll at MCPHS University form must be submitted by May 1 for fall enrollment and by September 1 for spring enrollment and must include an official WSU transcript.

Admission to the accelerated BSN program is also contingent upon a satisfactory pre-admission interview conducted by MCPHS University at the campus to which a student intends to transfer and is subject to availability of openings in the program.

The MCPHS University Worcester /Manchester Admissions Committee retains the right to make the final decision on each student's transfer application.

The **B.S.** in **Public Health at WSU** is earned upon the successful completion of 37 credits at MCPHS University. The WSU Registrar requires an official transcript.

Public Health - Pre-Nursing Program

REQUIREMENTS COMPLETED AT WSU (83)

YEAR 1 — Semester One – Fall			
Course No.	Course Name	Credits	
FYS	First-Year Seminar	3	
EN 101	English Composition (WR)	3	
HC 201	Introduction to Public Health	3	
HI 111/112	US History (CON)	3	
PS 101	General Psychology (HSB)	3	
	Semester Subtotal	15	

Semester Two – Spring		
Course No.	Course Name	Credits
BI 161	Human Anatomy and Physiology I	4
CH 112	Survey of Chemistry (NSP #1)	4
EN 102	English Composition II (WR)	3
HE 100	Personal Health	3
	Semester Subtotal	14

Semester Three — Summer		
Course No.	Course Name	Credits
PS 210	Developmental Psychology (HBS)	3
SO 100	Introduction to Sociology	3
MA 1XX	Any Math Course (MA/QR)	3
	Semester Subtotal	9

YEAR TWO

Semester Four - Fall		
Course No.	Course Name	Credits
BI 162	Anatomy and Physiology II (NSP #2 - LAB)	4
BI 206	Medical Microbiology	4
HC 202	Introduction to Global Health	3
HC 415	Community Health Planning and Promotion	3
PS 275 or MA 150	Psychological Statistics (QR #2/QAC)	4
	Semester Subtotal	18

YEAR TWO

Semester Five - Spring		
Course No.	Course Name	Credits
HE 120	Health and Nutrition	3
HC 203	Introduction to Epidemiology (GP, NSP, QAC, ICW)	
3		
HC 425	Research Seminar	3
HE 390	Environmental Health	3
2 LASC	Requirement (CA, GP, TLC, USW)	6

Semester Subtotal 18

Semester Six - Summer			
Course No. Course Name		Credits	
HE 210	Women's Health	3	
2 LASC	LASC Requirement (CA, GP, TLC, USW)	6	
	Semester Subtotal	9	

Students in Track I will complete the above courses with the addition of two summer sessions at WSU. Students in Track II will complete the above courses during a third Fall semester at WSU.

Requirements Completed at MCPHSU (63)

Fall or Spring

Course No.	Course Name	Credits
NUR 205	Nursing History, Knowledge & Narrative	3
NUR 208	Essential Concepts of Nursing	3
NUR 215/215L	Nursing Skills & Technologies	4
NUR 226	Pathophysiology & Pharmacology	6
	Semester Subtotal	16

Spring or Summer

Course No.	Course Name	Credits
NUR 325/335L	Provider of Care I: Adult & Elder Health	8
NUR 350	Scholarly Inquiry	3
	Semester Subtotal	11

Summer or Fall

Course No.	Course Name	Credits
NUR 330	Nursing History, Knowledge & Narrative	3
NUR 335	Essential Concepts of Nursing	6
NUR 345	Nursing Skills & Technologies	6
	Semester Subtotal	15

Fall or Spring

Course No.	Course Name	Credits
NUR 425	Provider of Care IV: Community/Home Health	8
NUR 445	Provider of Care V: Coordinator of Care	6
NUR 450	Member of a Profession: Capstone Project	4
	Semester Subtotal	18

Health Education Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

HE 100 Personal Health

LASC-ICW [for non-Health Education majors only]

Physical, mental, emotional, social, psychological, environmental and spiritual aspects of well-being. Offered every semester. 3 credits.

HE 120 Health and Nutrition

LASC-ICW

Prerequisite BI 162

Nutritional needs, weight control, healthy diets, myths, and nutritional aids to better health.

Offered every semester. 3 credits.

HE/PE 140 Creative Arts and Health

LASC-CA

An experiential and didactic introduction to making connections between the arts process, product and health. Offered every year. 3 credits.

HE/PE 150 Health and Physical Education for the Teacher

The planning, development, implementation and evaluation of comprehensive health education programs Offered every year. 3 credits.

HE 170 Humans in Motion

Concepts of the human neuro-musculoskeletal system which provide function and health across the life span under normal and stressful conditions.

Offered every year. 3 credits

HE 193 Special Topics in Health Sciences for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

HE 200 Consumer Health

Current information and guidelines to reliable sources necessary to develop critical and informed consumers of health products and services.

Offered every year. 3 credits.

HE 210 Women's Health Issues

Interactive processes of politics, power and media's influences on research, public health policy and current health issues.

Offered every year. 3 credits.

HE 220 Mental Health Education

LASC - HBS. ICW

Prerequisites: HE 100 + HE 200

Examination of mental health as a variable: its creation and the obstacles to sound mental health and positive self-concept.

Offered every year. 3 credits.

HE 230 Human Sexuality and Sex Education

Prerequisites: HE 100 + HE 200

Focus on the need for and understanding of sex education, along with the process of implementing sexuality education, with emphasis on teacher preparation.

Offered every year. 3 credits.

HE 240 Perspectives on Writing & Learning from Experience I

Prerequisites: EN 102, by permission only

LASC - WAC

Students will identify and analyze significant prior work and life experiences in the their fields of study and complete the first half of a portfolio of prior learning, which articulates what has been learned and relates it to college level courses and competencies.

Offered every year. 3 credits.

HE 242 Perspectives on Writing & Learning from Experience II

Prerequisites: HE 240, by permission only

LASC - WAC

This course is a continuation of HE 240. Students will continue the identification, analysis, and articulation of prior work and life experience and complete the second half of their prior learning portfolios.

Offered every year. 3 credits.

HE/PE 260 First Aid: Advanced Theory and Skill

Common emergencies, cardiopulmonary resuscitation, auto extrication, and emergency childbirth. Opportunity for instructor rating.

Offered every semester. 3 credits.

HE/PE 275 Fitness for Life

Prerequisites: HE 120

Knowledge of health-related fitness components and their effect on total wellness; emphasis on developing personalized fitness program.

Offered every year. 3 credits.

HE/PE 280 Individual Stress Management and Relaxation

Strategies and techniques for increasing stress resistance based on psychophysiological research.

Offered every year. 3 credits.

HE 285 Drugs and Society

Prerequisites: HE 100, HE 200, BI 161, BI 162

Drug use and implications for the individual and society.

Offered every year. 3 credits.

HE 320 Aging and Death

Prerequisite: HE 100

Health implications revealed as psychological and social surrounding the phenomena of aging and death.

Offered every 2 years. 3 credits.

HE 340 Health Counseling

Prerequisite: PS 110 or 111

A study of the counseling implications involved in health. Awareness of the counseling process and referral.

Offered every 2 years. 3 credits.

HE 350 Community Health Education

LASC— GP/ICW/DAC Prerequisite: HE 100

Application of core competencies of community health education with an introduction to theory and program planning. Examination of local health agencies.

Offered every year. 3 credits.

HE 370 Critical Issues in Health

Prerequisite: HE 100

An examination of contemporary issues in health that have legal, ethical, moral and professional practice implications. Offered every 2 years. 3 credits.

HE 390 Environmental Health

Prerequisite: HE 100 or HC 201

Examination of the issues affecting the environment and their impact on individual and global health.

Offered every year. 3 credits.

HE 400 Special Topics

Current issues in Health.

Offered every year. 3 credits.

HE 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

HE 440 Practicum in Health

LASC - CAP/WAC

Prerequisites: 8 Health Courses, HC 415 and EN 102

Co-requisite: HE 445

A field experience for health majors. Offered every semester. 3-6 credits.

HE 445 Practicum Seminar

Co-requisite: HE 440

This course is designed for reflection on the integration and application of the knowledge, skills, and competencies required of health education professionals.

Offered every semester. 3 credits.

HE 450 Independent Study in Health

Independent learning experiences designed and initiated by health majors.

Offered every semester. 1-6 credits.

Public Health Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

HC 201 Introduction to Public Health

This course is an overview and will focus on populations, prevention, and the evidence-based practice of public health. Offered every semester. 3 credits

HC 202 Introduction to Global Health

LASC- GP/ICW/DAC

This course is an overview and will focus on the developing world from a population and prevention perspective Offered every year. 3 credits

HC 203 Introduction to Epidemiology

Prerequisite: any MA course, HC 201

LASC - NSP/QAC/ICW/GP

Basic epidemiologic concepts are covered and the application of concepts to everyday problems; e.g., hazards in food supplies and risks associated with lifestyle.

Offered every semester. 3 credits

HC 220 Health Policy

Prerequisite: HE 100

Examination of the process and factors that influence formulation, implementation and modification of health policy

in the United States.

Offered every year. 3 credits

HC 228 Health Ethics

Prerequisite: HE 100 or HC 201

Ethical issues in health including genetic research, euthanasia, medical intervention and reproductive technologies as well as professional ethics.

Offered every year. 3 credits

HC 233 Health Care Systems

The health care system with emphasis on issues relating to unequal access to health services and current plans to make change.

Offered every 2 years. 3 credits

HC 234 Multiculturalism and Health

Examination of diverse ethnic/racial and cultural beliefs and practices affecting health and illness.

Offered every 2 years. 3 credits

HC 338 Peer Education Training

Prerequisite: HE 100

Emphasis on student development of practical skills to implement programming centered on peer education programs and focused on preventative health.

Offered every 2 years. 3 credits

HC 350 Group Process

Prerequisite: HE 100

A didactic and experiential examination of various theories of group dynamics and their application to the facilitation of health-related groups. Research paper.

Offered every year. 3 credits

HC 403 Department Workshop in Community Health

The subject matter of this course will be reflective of the changing issues within the field of community health. Offered every semester. 3 credits

HC 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

HC 415 Community Health Planning and Promotion

Prerequisites: 7 courses from major requirements and major electives

Emphasis on community analysis; defining and verifying community health problems and establishing goals and objectives. Research paper.

Offered every year. 3 credits

HC 425 Research Seminar

LASC - CAP/WAC

Prerequisite: EN 102, HC 228 OR PH 131, HC 203 and one of the following: MA 150, PS 275, SO 275

The examination of the steps of the research process followed by the development of a public health research proposal. Offered every year. 3 credits

HC 450 Practicum in Community Health

LASC - CAP/WAC

Prerequisites: 8 HE/HC courses and HC415; EN 102

Field experience in which students will select a community health speciality area and spend a semester pursuing their goal through participation. (See HE 440 Practicum in Health).

Offered every year. 3-6 credits



Faculty

Tim Antonelli, Assistant Professor (2015)

B.S.E., Duke University, Ph.D. North Carolina State University

Noah Daleo, Assistant Professor (2015)

B.S., Kennesaw State University, Ph.D., North Carolina State University

Mary S. Fowler, Professor (2004)

B.A., New York University; M.S., Ph.D., Carnegie Mellon University

Maria G. Fung, Associate Professor (2008)

B.A., Clark University; M.S., Ph.D., Cornell University

Elizabeth Gilbert, Assistant Professor (2016)

B.S., M.S., Villanova University, Ph.D., Temple University

Hy Ginsberg, Assistant Professor (2011)

B.S., State University of New York, Stony Brook; M.S., Ph.D., University of Vermont

Jason A. Hardin, Assistant Professor (2014)

B.A., University of Cincinnati; Ph.D., M.S., University of Nebraska, Lincoln

Eileen B. Perez, Assistant Professor (2013), Developmental Mathematics Program Director (2008)

B.S., M.S., Union College; Ed.D., Nova Southeastern University

Caitlin Phifer, Assistant Professor (2016)

B.S., Salem State College; M.S., Ph.D., University of Rhode Island

Susan L. Schmoyer, Associate Professor (2009)

B.S., Randolph-Macon Woman's College; M.S., Virginia Tech;

Ph.D., University of Maryland

Hansun T. To, Professor (2004)

B.A., Rosemont College; M.A., Ph.D., Temple University

Michael Winders, Professor, Department Chair (2004)

B.S., M.S., Ph.D., University of Iowa

The Department prepares its students for advanced study and research as well as for careers in business, industry, government and teaching. Students are encouraged to seek the advice of their faculty advisor in the selection of a concentration and elective courses that will best prepare them for their career choices.

Mathematics is the language of science and also plays a key role in many of the social sciences. An understanding of mathematics provides a powerful approach to solving problems through organization, simplification, and abstraction. In today's job market, individuals with highly developed analytical and problem-solving skills are in great demand. Therefore, there are numerous career options for students who choose to major in mathematics.

The Mathematics Department offers two majors. One is a Mathematics Major with three possible concentrations: Traditional, Secondary Education and Statistics and Modeling. The other is Mathematics for Elementary Education: 1-6 which requires a student to also complete the Elementary Education Major.

Computer software is used in many courses. These programs include Maple, Geogebra, Sage, SPSS, Matlab, Geometer's Sketchpad, and DPGraph.

The Mathematics Major

Admission Requirements for the Mathematics Major: Rigorous high school coursework and strong SAT scores with above average grades in mathematics and computer science courses.

Requirements for a Major in Mathematics: Students must complete a core of six mathematics courses and one computer science class and in addition select one of three concentrations.

Core Courses: 24 credits

MA 200	Calculus I
MA 201	Calculus II
MA 240	Theory of Proof
MA 260	Linear Algebra
MA 310	Calculus III
MA 470	Capstone Experience

In addition, students are required to take the following ancillary course: CS 135 Programming for Non-CS Majors.

MA 200, MA 201 and MA 240 must be completed with grades of at least C- by the end of the sophomore year. A student may only retake any of these courses at most once to increase a grade below C-; and may retake at most two of these courses to increase a grade below C-.

Requirements for the Concentration in Traditional Mathematics: 18 credits

MA 320	Ordinary Differential Equations
MA 405	Abstract Algebra
MA 410	Real Analysis

Nine additional credits of mathematics at the MA 290-level or above, to be chosen in consultation with the academic advisor.

Department of Mathematics: Mathematics Major Traditional Concentration Sample Timeline for Completion of Degree

YEAR ONE

Semester One	•	
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
MA 200	Calculus I	4
CS 135	Programming for Non-CS Majors (QR)	3
LASC	Distribution Elective (NSP)	3
	Semester Subtotal	16

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	U.S. Constitution	3
MA 201	Calculus II	4
MA 240	Theory of Proof ¹	3
LASC	Distribution Elective (CA)	3
Semester Subtotal		16
**DualMath/CS majors may substitute Discrete Math I with permission of department.		of

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
MA 310	Calculus III	4
MA 260	Linear Algebra	3
LASC	Distribution Elective (NSP LAB)	3-4
LASC	Distribution Elective (USW)	3
LASC	Distribution Elective (GP)	3
	Semester Subtotal	16-17

Semester Four			
Course No.	Course Name		Credits
MA 320	Differential Equations or MA Elective ²		3
MA	300 Level Elective in Major		3
SELECT	General Elective		3
LASC			3
LASC	Distribution Elective (TLC)		3
	Semester S	Subtotal	15
Comments	² MA 320 is offered every other Spring.		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
MA	300 Level Elective in Major	3
SELECT	General Elective	3
MA	300 Level Elective in Major	3
SELECT	General Elective	3
LASC	Distribution Elective (HBS)	3
	Semester Subtotal	15

Mathematics

Semester Six		
Course No.	Course Name	Credits
MA 405	Abstract Algebra	3
MA 320	Differential Equations ³	3
SELECT	General Elective	3
SELECT	General Elective	3
LASC	Distribution Elective (ICW)	3
	Semester Subtotal	15
Comments	³ If not taken in semester 4.	

YEAR FOUR

Semester Seven			
Course No.	Course Name	Credits	
MA 410	Real Analysis	3	
MA	300 Level Elective in Major	3	
MA 470	Capstone in Mathematics ⁴ (WAC)	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	

Semester Eight		
Course No.	Course Name	Credits
LASC	Distribution Elective (QLAC)	3
LASC	Distribution Elective (DAC)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	12
Comments	⁴ Student should discuss capstone project with advisor during preceding semester.	

TOTAL CREDITS= 120-121

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for the Concentration in Secondary Education: 18 credits

MA 302 Probability and Statistics
MA 340 Modern Geometry
MA 405 Abstract Algebra or MA 410 Real Analysis
MA 360 Number Theory
MA 303 Mathematical Modeling

Three additional credits of mathematics at the MA 290-level or above, to be chosen in consultation with the academic advisor.

It is recommended that students planning to take the Massachusetts Test for Educator Licensure (MTEL) for high school certification also complete a physics course.

Department of Mathematics: Mathematics Major Concentration in Secondary Education Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
MA 200	Calculus I	4
CS 135	Programming for Non-CS Majors (QR)	3
LASC	Distribution Elective(GP)	3
	Semester Subtotal	16

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	U.S. Constitution	3
MA 201	Calculus II	4
MA 240	Theory of Proof ¹	3
SELECT	General Elective	3
	Semester Subtotal	16
Comments	¹ Dual Math/CS majors may substitute Discrete Math I with permis department *Students should consult with their advisors about minoring in secondary education	ssion of

YEAR TWO

Semester Three	•	
Course No.	Course Name	Credits
MA 310	Calculus III	4
MA 260	Linear Algebra	3
LASC	Natural Systems and Processes	3-4
LASC	Distribution Elective (CA)	3
LASC	Distribution Elective (NSP)	3
	Semester Subtotal	16-17
Semester Four		
Course No.	Course Name	Credits
MA 360	Number Theory	3
MA 303	Math Modeling ² or MA Elective ³	3
SELECT	General Elective	3
LASC	Distribution Elective (NSP LAB)	3
LASC	Distribution Elective (USW)	3
	Semester Subtotal	15
Comments 2MA 303 is offered every other Spring. 3Only one elective is required; it may be taken in either the Spring or Fall		g or Fall.

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
MA 302	Probability and Statistics	3
SELECT	General Elective	3
MA 340	Modern Geometry	3
SELECT	General Elective	3
LASC	Distribution Elective (HBS)	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
MA 405	Abstract Algebra ⁴	3
MA 303	Math Modeling ⁵	3
LASC	Distribution Elective (ICW)	3
SELECT	General Elective	3
LASC	Distribution Elective (TLC)	3
	Semester Subtotal	15
Comments	⁴ Only one of MA 405 and MA 410 is required. ⁵ If not taken in semester 4.	

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
MA 410	Real Analysis ⁶	3
MA	300 Level Elective in Major ⁷	3
MA 470	Capstone in Mathematics (WAC)	3
SELECT	General Elective	3
LASC	Distribution Elective (DAC)	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
SELECT	General Elective	3
LASC	Distribution Elective (QLAC)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	12
Comments 6*Only one elective is required; it may be taken in either the Spring or Fall. 7*Only one of MA 405 and MA 410 is required. 8*Student should discuss capstone project with advisor during preceding semester.		

TOTAL CREDITS= 120-121

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for the Concentration in Statistics and Modeling: 18 credits

MA 302	Probability and Statistics
MA 303	Mathematical Modeling
MA 304	Data Analysis
MA 380	Probability Theory
MA 410	Real Analysis

Three additional credits of mathematics at the MA 290-level or above, to be chosen in consultation with the academic advisor.

Department of Mathematics: Mathematics Major Concentration in Statistics and Modeling Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
MA 200	Calculus I	4
CS 135	Programming for Non-CS Majors (QR)	3
LASC	Distribution Elective (CA)	3
	Semester Subtotal	16

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	U.S. Constitution	3
MA 201	Calculus II	4
MA 240	Theory of Proof ¹	3
LASC	Distribution Elective (USW)	3
Semester Subtotal		16
Comments	¹Dual Math/CS majors may substitute Discrete Math I with permission of department.	

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
MA 310	Calculus III	4
MA 260	Linear Algebra	3
LASC	Distributional Elective (NSP)	3-4
CS 265	Database Applications	3
MA302	Probability and Statistics	3
	Semester Su	ubtotal 16-17

Semester Fou	r	
Course No.	Course Name	Credits
	Elective	3
MA 303	Math Modeling ³ or MA 304 ² Data Analysis	3
SELECT	General Elective	3
LASC	Distribution Elective (NSP LAB)	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments	² MA 304 is offered every other Spring.	

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
MA	300 Level Elective in Major⁴ or MA 380⁵ Probability Theory	3
	Elective	3
	Elective	3
LASC	Distribution Elective (GP)	3
LASC	Distribution Elective (ICW)	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
MA	Upper Level Elective⁴	3
MA 303	Math Modeling or MA 304 Data Analysis	3
	Elective	3
LASC	Distribution Elective (TLC)	3
LASC	Distribution Elective (HBS)	3
	Semester Subtotal	15
Comments	⁴ Only one elective is required; it may be taken in either the Spring or F 380 is offered every other Spring.	all; ⁵ MA

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
MA 410	Real Analysis	3
MA 380	Probability Theory	3
MA 470	Capstone in Mathematics ⁶ (WAC)	3
LASC	Distribution Elective (QLAC)	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
LASC	Distribution Elective (DAC)	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	12
Comments	⁶ Student should discuss capstone project with advisor during preceding semester.	ng

TOTAL CREDITS= 120-121

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

The Mathematics Elementary Education; 1-6 Major

This major serves as a second major for Elementary Education majors. It prepares preservice teachers to be mathematical leaders in elementary schools.

Requirements for the Mathematics for Elementary Education; 1-6 Major: 33 math credits and 12 education credits.

MA 130	Numbers and Operations for Teachers
MA 131	Patterns, Relations, Functions and Algebra for Teachers
MA 132	Geometry, Measurement, Statistics and Probability for Teachers
MA 190	Precalculus
MA 200	Calculus I
MA 201	Calculus II
MA 240	Theory of Proof
MA 302	Probability and Statistics
MA 303	Mathematical Modeling
MA 360	Number Theory
ED 425	Seminar: Applying Educational Principles
ED 435	Student Teaching in Elementary School

^{*}Note: The pre-requisite for MA 190 is MA 180. However, credit will not be given for both MA 131 and MA 180. If a student wishes to register for MA 190 upon completion of MA 131, He/she must receive a C- or better in MA 131 and complete a packet of supplementary materials that will be reviewed by either the MA 190 instructor or department chair.

YEAR ONE

Semester One		
Course No.	Course Name	Credits
FYS	First-Year Seminar	3
EN 101	English Composition I (WR)	3
MA 130	Numb & Oper for Teachers	3
	HSBP Elective	3
ED 155	Teaching and Learning in ELE	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (WR)	3
HI/PO 218	U.S. History (CON)	3
ED 250	Educational Psychology	3
MA 190	Pre-Calculus	4
MA 131	Patterns, Relations & Algebra	3
	Semester Subtotal	15

^{*} MA 130, MA 131, and MA 132 must be completed with grades of at least B-, a student may retake any one of these courses at most once to increase a grade below a B-, and may retake at most two of these courses.

^{*} MA 190, MA 200, and MA 240 must be completed with grades of at least C-, a student may retake any on one of these courses at most once to increase a grade below a C-, and may retake at least two of these courses.

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
MA 200	Calculus I	4
	USW Elective	3
	GP Elective	3
ED 148	Foundations of Reading	3
ED 275	Curriculum & Instruction in ELE	3
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
MA 132	Geometry, Measure for Teachers	3
MA 201	Calculus II	4
ED 200	Best Practices for ELL (DAC)	3
	TLC Elective	3
ED 325	Elementary Mathematics	3
	Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
MA 240	Theory of Proof	3
ED 343	Elementary Language Arts & Read	3
MA 302	Probability & Statistics (QLAC)	3
	WAC Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
ED 330	Elementary Social Studies & Multi	3
MA 360	Number Theory	3
	ICW Elective	3
MA 303	Mathematics Modeling (QLAC)	3
	NSP Elective	3
	CA Elective	3
	Semester Subtotal	18

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
ED 320	Science for Elementary	3
	QR Elective	3
	NSP Elective - Lab Course	4
	Free Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
ED 425	Seminar: Apply Ed Principles	3
ED 435	Student Teaching in ELE (Capstone)	9
	Semester Subtotal	12

Requirements for a Traditional Minor in Mathematics: 18 credits

MA 200 Calculus I MA 201 Calculus II

MA 220 Discrete Mathematics I or MA 240 Theory of Proof Electives: minimum of 7 credits in mathematics 290 and above

Requirements for a Financial Mathematics Minor: 18 credits

MA 200 Calculus I
MA 201 Calculus II
MA 310 Calculus III
MA 380 Probability Theory

MA 381 Probability Theory II for Actuarial Science

Requirements for a Middle School Mathematics Minor: 20-21 credits

MA 130 Number and Operations for Teachers
MA 131 Patterns, Functions, and Algebra for Teachers
MA 132 Geometry, Measurement, Probability, and Statistics for Teachers
MA 200 Calculus I
MA 201 Calculus II
MA 220 Discrete Mathematics or MA 240: Theory of Proof or MA 303
Math Modeling

Mathematics Placement

All new students must take the Accuplacer Arithmetic test followed by the Accuplacer Elementary Algebra test. Those who score well on these two basic tests will take an Algebra II/Pre-Calculus test called the College Level Math test. In order to take a mathematics course at Worcester State University, a student must complete the placement test process prior to registration. Results will be used to determine appropriate course placement.

Mathematics Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

MA 098 Arithmetic Developmental Math

Whole numbers, fractions, decimals, percents, rates, ratios, proportions, word problems, graphs, tables, signed numbers, variables and expressions.

Offered every semester. 3 remedial credits. Credits do not count towards graduation.

MA 099 Elementary Algebra Developmental Math

Prerequisite: Placement code 2 or MA 098

Elementary algebra: including linear, quadratic, and rational equations, exponents, polynomials, graphing linear and simultaneous equations, factoring, and radicals.

Offered every semester. 3 remedial credits. Credits do not count towards graduation

MA 105 Survey of Mathematics

LASC-Quantitative Reasoning

Prerequisite: Placement code 3 or above

Financial management, probability theory, voting methods and other topics selected to improve the quantitative literacy of students.

Offered every semester. 3 credits.

MA 130 Number and Operations for Teachers

LASC-Quantitative Reasoning

Prerequisite: Placement code 5 or above

Develops understanding of the mathematical content of number and operations at the deep level required for successful elementary and middle school teaching.

Offered every semester. 3 credits.

MA 131 Patterns, Functions and Algebra for Teachers

LASC-Quantitative Reasoning

Prerequisite: MA 130 with a grade of at least C

Develops understanding of the mathematical content of patterns, functions and algebra at the deep level required for successful elementary and middle school teaching.

Offered every year. 3 credits. Credit will not be awarded for MA180 (formerly MA110) and MA131.

MA 132 Geometry, Measurement, Probability and Statistics for Teachers

LASC-Quantitative Reasoning

Prerequisite: MA 130 with a grade of at least C

Develops understanding of the mathematical content of geometry, measurement, probability and statistics at the deep level required for successful elementary and middle school teaching.

Offered every year. 3 credits

MA 150 Statistics I

LASC-Quantitative Reasoning

Prerequisite: Placement code 4 or above

Descriptive techniques, elementary probability, and introduction to statistical inference.

Offered every semester. 3 credits. Credit will not be awarded for both MA 150 and MA 302.

MA 180 Introduction to Functions (Formerly MA 110 College Algebra)

LASC-Quantitative Reasoning

Prerequisite: Placement code 5 or above

Properties and applications of linear, quadratic, polynomial, rational, exponential, and logarithmic functions; systems of equations; complex numbers.

Offered every semester. 3 credits. Credit will not be awarded for both MA180 (formerly MA 110) and MA 131.

MA 190 Precalculus

LASC-Quantitative Reasoning

Prerequisite: MA180 (formerly MA110) with a grade of at least C- or placement code 6 or above

Analytic geometry; Review of exponential and logarithmic functions; trigonometric functions, identities and equations, systems of linear equations and inequalities, applications.

Offered every semester. 4 credits.

MA 193 Special Topics in Mathematics for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Prerequisite: Placement code 5 or above or permission of instructor

Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every 3 years. 3 credits.

MA 200 Calculus I

LASC-Quantitative Reasoning

Prerequisite: MA 190 with a grade of at least C- or Placement code 7

Limits, continuity, differentiation and integration of functions, the Fundamental Theorem of Calculus, L'Hôpital's Rule, applications including related rates, optimization, and area.

Offered every semester. 4 credits. Credit will not be awarded for both MA 200 & MA 202

MA 201 Calculus II

LASC-Quantitative Reasoning

Prerequisite: MA 200 with a grade of at least C-

Techniques of integration, infinite sequences and series, power series, applications including area, volume, and functional approximation.

Offered every semester. 4 credits.

MA 202 Business Calculus

Prerequisite: MA180 (formerly MA110) with a grade of at least C- or placement code 6 or above

Limits, derivatives of algebraic functions, integration, business applications.

Offered every year. 4 credits. Credit will not be awarded for both MA 200 & MA 202

MA 240 Theory of Proof

Prerequisite: MA 200 with a grade of at least C- (may be taken concurrently with permission of the department) Logic, set theory, proof techniques (direct, contrapositive, contradiction) mathematical induction, relations, functions, sequences and convergence, limits and continuity, congruence.

Offered every semester. 3 credits.

MA 260 Linear Algebra

Prerequisite: MA 240 with a grade of at least C

Solutions of simultaneous equations by means of matrices and determinants, vector spaces, linear transformations. Optional topics: characteristic values, bilinear and quadratic forms.

Offered every year. 3 credits.

MA 302 Probability and Statistics

Prerequisite: MA 200 with a grade of at least C-

Descriptive statistics, probability theory including an introduction to calculus based probability theory, combinatorics, correlation, regression and inference techniques.

Offered every year. 3 credits. Credit will not be awarded for both MA 150 and MA 302.

MA 303 Mathematical Modeling

Prerequisite: MA 201 with a grade of at least C-

The development and application of deterministic and probabilistic mathematical models from the physical, social and life sciences.

Offered every semester. 3 credits.

MA 304 Data Analysis

Prerequisites: MA 302 and CS 265 with grades of at least C-

Case studies combining applied statistics, mathematical statistics, mathematics, computing, and communications to simulate work experience of a practicing statistician.

Offered every 2 years. 3 credits.

MA 310 Calculus III

Prerequisite: MA 201 with a grade of at least C-

Vectors, parametric equations, polar, cylindrical and spherical coordinates, multivariable functions, properties and applications, partial derivatives, multiple integrals.

Offered every year. 4 credits.

MA 320 Ordinary Differential Equations

Prerequisite: MA 310 (may be taken concurrently) with a grade of at least C-

Techniques for solving first and higher order differential equations, Laplace transforms, Fourier series and power series solutions.

Offered every 2 years. 3 credits.

MA 340 Modern Geometry

Prerequisite: MA 240 with a grade of at least C
Topics from Euclidean and non-Euclidean geometry.
Offered every year. 3 credits.

MA 360 Number Theory

Prerequisite: MA 240 with a grade of at least C

Divisibility properties of integers, prime numbers, the Euclidean algorithm, the unique factorization theorem, congruence, Diophantine equations, number theoretic functions.

Offered every semester. 3 credits.

MA 380 Probability

Prerequisite: MA 310 with grade of at least C-. (May be taken concurrently with permission of the department.)
Continuous and discrete probability concepts including: conditional probability, independence, moments of univariate and multivariate random variables. This is the first course in a two course sequence that prepares students for the first Actuarial exam.

Offered every 2 years. 3 credits.

MA 381 Probability Theory for Actuarial Science

Prerequisite: MA 380 with grade of at least C-.

Probabilities, conditional probabilities, moment-generating functions, moments and expectations of specific parametric distributions including Poisson, geometric, hypergeometric, exponential, and normal.

Offered every 2 years. 3 credits.

MA 405 Abstract Algebra

Prerequisite: MA 240 with a grade of at least B-MA 260 with a grade of at least C-

Sets, mathematical systems, groups, rings, fields.

Offered every year. 3 credits.

MA 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

MA 410 Real Analysis

Prerequisites: MA 240 and MA 310 with grades of at least B-

Rigorous treatment of sequences, topology of the real numbers, limits and continuity.

Offered every year. 3 credits.

MA 470 Capstone Experience

Prerequisite: Senior standing within the major

LASC - Major Capstone (WAC)

Students complete an independent mathematics research/problem-solving project, including oral presentations and a final written paper.

Offered every year. 3 credits.

MA 497 Selected Topics in Mathematics

Prerequisite: Will vary according to content

Selection of topics of natural interest to students and faculty

Offered every year. 3 credits.

MA 498 Internship

Prerequisite: Consent of Instructor

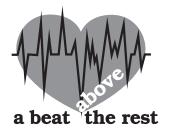
Working in and for an organization where ones skills can be tested in real-world situations. Student swill have an opportunity to gain experience, increase knowledge in various functional areas, and establish important contacts with an organization.

Offered every year. 3 credits.

Natural Science Department of Earth, Environment and Physics

See Environmental Science, Page 208 Students with questions should meet with their advisor.

NursingDr. Lillian R. Goodman Department of Nursing



Associate Dean for Nursing

Stephanie Chalupka, Professor (2008), Associate Dean for Nursing A.S., Quinsigamond Community College; B.S., Worcester State College; M.S., Boston College; Ed.D., University of Massachusetts, Amherst

Faculty

Susan Alix, Assistant Professor (2006)

R.N., St. Vincent Hospital School of Nursing; B.S., Worcester State College; M.S., University of Massachusetts, Worcester; D.N.P., Samford University

Kelly Carlson, Assistant Professor (2014)

Newton-Wellesley Hospital School of Nursing; B.S.N, M.S.N., Ph.D., University of Tennessee

William Chadbourne, Instructor (2015)

AS, Mount Wachusett Community College; B.S., Worcester State College; M.S., Worcester State University

Amanda Cornine, Instructor (2016)

B.S.N., University of Massachusetts, Boston; M.S.N., Framingham State

Melissa D. Duprey, Assistant Professor (2014)

A.S.N., Manatee Community College; B.S.N., University of South Florida; M.S.N., University of Alabama; Ed.D., Walden University

Kimberly Silver-Dunker (2016)

A.S, B.S. Atlantic Union College; M.S., DNP Regis College

Barbara Ann Giguere, Professor (1980)

R.N., Worcester City Hospital School of Nursing; B.S., Worcester State College;

M.S., University of Connecticut; Ed.D., University of Massachusetts, Amherst

Cheryl Hersperger, Instructor (2014)

R.N., Worcester City Hospital; B.S., Framingham State College; M.S., Worcester State College

Robyn Leo, Associate Professor, Department Chair (1995)

R.N., Framingham Union Hospital School of Nursing; B.S., Worcester State College;

M.S., University of Connecticut

Patricia Moran, Instructor (2013)

A.S., Mass Bay Community College; B.S., M.S., Worcester State University

Michelle Page, Instructor (2014)

B.S.N., Hawaii Pacific University; M.S.N., Framingham State University

Maryann Sabetti-Gramajo, Instructor (2013)

A.D., Bunker Hill Community College; B.A., University of Massachusetts, Amherst;

M.A., Lesley College; M.S., Worcester State College

Janna Trombley, Instructor (2016)

B.S.N., University of Vermont; M.S.N., Worcester State University

Judy Tuori, Instructor (2012)

B.S., D'Youville College; M.S., Anna Maria College; M.S., University of Massachusetts, Lowell

Accreditation

- Full approval status from the Commonwealth of Massachusetts Board of Registration in Nursing located at 239 Causeway St. Boston, MA 02114
- Accredited by the Commission on Collegiate Nursing Education (CCNE).
 One Dupont Circle, NW, Suite 530, Washington, DC 20036
- Member of the Massachusetts Association of Colleges of Nursing (MACN).

General Information

Admissions

The nursing program leads to a Bachelor of Science degree.

The program offers three tracks in the undergraduate major in nursing: **Track One** is for the student who is seeking initial baccalaureate education in the nursing profession **Track Two** is for the student who has obtained licensure as a registered nurse who has graduated from an Associate Degree or Diploma accredited program and is pursuing a baccalaureate degree. **Track Three** is for the student who has obtained licensure as a licensed practical nurse and graduated from an accredited LPN program and is pursuing a baccalaureate degree.

Mission Statement

The mission of the Dr. Lillian R. Goodman Department of Nursing is in keeping with the Worcester State University mission with the emphasis on developing the professional nurse who values lifelong intellectual growth and global awareness. The Department of Nursing fosters the professional growth of faculty and students through excellence in teaching and learning, rooted in scholarship and community service related to the discipline of nursing.

Undergraduate Program Outcomes

The Department of Nursing prepares individuals for the roles and responsibilities of professional nursing through an undergraduate program leading to the Bachelor of Science degree.

The program outcomes of the undergraduate program are as follows:

- 1. Provide comprehensive, holistic care that is grounded in the biological sciences, the arts and humanities.
- 2. Demonstrate an understanding of a variety of organizational structures, missions, visions, philosophies and values.
- 3. Utilize current theoretical, scientific and research knowledge toward evidence based professional practice.

- Demonstrate competence in utilizing information technology resources to advance professional practice
- 5. Comply with the Standards of Professional Nursing Practice.
- Implement effective inter-professional communication when working with the health care team.
- Implement evidence based practice to guide the nursing process toward culturally sensitive, individual and population focused care.
- 8. Apply the professional standards of moral, ethical and legal conduct to practice.
- 9. Demonstrate clinical competency, accountability and ethical decision making as an entry level, novice professional nurse.

The nursing department has department-specific policies which are found in the Department of Nursing Undergraduate and Graduate Student Policy Handbooks. These policies include, but are not limited to, the following: progression and retention, classroom and clinical behavior, academic honesty, professional behavior, and CORI/drug screening/health requirements. The department reserves the right to modify policies and the curriculum during the students' enrollment. Sufficient notice of any change will be provided to students.

Progression in the program requires successful grade of C or above and completion of all pre and corequisite courses. A grade of 80 or above, is required in all nursing (NU) courses and all clinical placement require a grade of "passing" (P).

Good Moral Character Required for Licensure

In compliance with policy of the Massachusetts State Board of Nursing, all applicants/ students are informed that completion of the BS degree does not guarantee admittance to the registered nurse licensure examination. According to Board Licensure Policy 00-01, any individual convicted of a felony or misdemeanor conviction, and/or who has been disciplined by a licensure/certification body must be evaluated by the Board to determine a licensure applicant's compliance with the "good moral character" licensure requirement established at Massachusetts General Laws, Chapter 112, section 74 and 74A. Any individual who has been convicted of a felony or misdemeanor conviction, and/or who has been disciplined by a licensure/certification body, or whose ability to practice professional nursing is adversely affected by a physical or mental disability/illness that may endanger the health and/or safety of a person, should seek special advising prior to enrolling in any professional nursing program in Massachusetts. Individuals convicted of certain criminal convictions are permanently excluded from nurse licensure in Massachusetts.

All students in the nursing program will be required to have periodic CORI (Criminal Offender Record Information) checks requested by the department and/or clinical agencies. This background check is a computerized search to determine if an individual has any convictions, outstanding warrants or pending complaints. The information from these records is confidential and is destroyed when a student graduates. Progression and mandatory clinical placements in the nursing program are contingent on a "no report" CORI check result. Clinical agencies may independently perform CORI checks on students and do not have to accept a student with a CORI report indicating that an offense exists. The department is not responsible for alternate clinical placements for students who cannot be placed in an agency related to a CORI offense report. Students have an obligation to inform the department chair if any legal issues arise, while in the program, that are reportable on a CORI. For more information please see www.mass.gov/eohhs/gov/departments/dph/programs/hcq/dhpl/nursing/licensing/good-moral-character-requirements-for-licensure.html

Track One (Undergraduate)

Track One Courses

Prerequisite courses to be successfully completed with a C or above by the end of Spring (May 30th) semester first-year:

* BI 161 & BI 162 Human Anatomy and Physiology I and II

* CH 112 Survey of Chemistry

* EN 101 & EN 102 English Composition I and II

* BI 206 Medical Microbiology

Corequisite courses to be successfully completed with a C or above by the end of Fall (December 31st) semester sophomore year:

* PS 101 General Psychology
* SO 100 Introduction to Sociology

Corequisite courses to be successfully completed with a C or above by the end of Spring (May 30th) semester sophomore year:

* HE 120 Health and Nutrition

* MA 150 Statistics

* QR Elective

A student who fails to complete any prerequisite and/or corequisite course on time will remain as a nursing major; however, progression in the nursing program will depend on satisfactory completion of these courses and <u>space availability</u>.

Required Nursing Courses: 60 credits – All Nursing courses must be taken in sequence.

NU	200	Introduction to Professional Nursing I	5 credits
NU	206	Principles of Pathophysiology & Pharmacology I	3 credits
NU	210	Introduction to Professional Nursing II	5 credits
NU	216	Principles of Pathophysiology & Pharmacology II	3 credits
NU	310	Nursing Science I	9 credits
NU	430	Research Seminar	3 credits
NU	315	Group Communication Seminar I	1 credit
NU	340	Nursing Science II	9 credits
NU	415	Group Communication Seminar II	1 credit
NU	440	Nursing Science III	8 credits
NU	450	Leadership in Nursing	3 credits
NU	460	Nursing Science IV	3 credits
NU	470	Capstone	7 credits

Students must achieve a minimum grade of 80 in each nursing course and each section of the course when a course has two distinct class/clinical components (NU 310, NU 340, NU 440). The Department of Nursing has additional policies and procedures which are binding for nursing majors. Included in these policies are standards for progression in the nursing major. They are found in the *Nursing Department's Student Handbook* that all students receive a copy of the handbook at the start of the academic year and sign a note of receipt.

Nursing courses, prerequisite and corequisite courses may not be taken pass/fail and must meet the grade listed above in order to progress in program.

^{*}Students must achieve a grade of a C or better in each of these prerequisite and corequisite courses. Each course may be repeated only ONCE to obtain minimum required grade. A student not meeting the minimum grade requirement will not be considered for transfer acceptance into or allowed continued progression in the nursing program.

Transfer Students: Students taking general education courses in another college or university are required to contact the Worcester State University Admissions Office regarding matriculation and transfer of credits. Transfer students are accepted to the nursing major on a very limited space available only basis. Students are admitted into the freshmen or sophomore class level based on required course completion grades and space availability.

All transfer student applicants for Track One who have previously been enrolled in a nursing program in another college/university must submit, as part of their application, a letter from the dean or director of the nursing program indicating that they left in good standing and were eligible for readmission to that program.

Transfer students may only apply two (2) times for admission into the nursing major.

Dr. Lillian R. Goodman Department of Nursing Sample Timeline for Track I Completion of Degree for Class Entering Fall 2016

YEAR ONE

Semester One (Freshmen)		
Course No.	Course Name	Credits
EN101	English Composition I	3
BI 161	Human Anatomy and Physiology I	4
CH 112	Survey of Chemistry (NSP)	4
FYS	First-Year Seminar	3
	Semester Subtotal	14

Semester Two (Freshmen)		
Course No.	Course Name	Credits
EN 102	English Composition II	3
BI 162	Human Anatomy and Physiology II (NSP)	4
BI 206	Medical Microbiology (NSP)	4
SO 100 or PS 101	Introduction to Sociology (HBS)/General Psychology I (HBS)	3
	LASC Elective (Constitution)	3
	Semester Subtotal	17
Comments	EN 101 & 102 satisfies LASC writing.	

^{*} All Sciences and pre-requisites must be completed by May 30th with a grade of C or better to progress to Sophomore Year.

YEAR TWO

Semester Three (Sophomore)		
Course No.	Course Name	Credits
NU 200	Introduction to Professional Nursing I	5
NU 206	Principles of Pathophysiology & Pharmacology I	3
HE 120	Health and Nutrition (ICW)	3
	Two Credit Elective	2
SO 100 or PS 101	Introduction to Sociology/ General Psychology I (HBS)	3
	Semester Subtotal	16
Comments	Pick 2 credit elective of your choice semester 3	

Semester Four (Sophomore)		
Course No.	Course Name	Credits
NU 210	Introduction to Prof. Nursing II	5
NU 216	Principles of Pathophysiology & Pharmacology II	3
MA 150	Statistics (QR)	3
	LASC Elective (QR)	3
	Semester Subtotal	14
Comments	MA 150 required Accuplacer score of 4 or higher	

YEAR THREE

Semester Five (Junior)		
Course No.	Course Name	Credits
NU 310	Nursing Science I	9
NU 430	Research (QRAC)	3
	LASC Elective	3
	Semester Subtotal	15

Semester Six (Junior)		
Course No.	Course Name	Credits
NU 340	Nursing Science II (DAC)	9
NU 315	Group Communication	1
	LASC Elective	3
	LASC Elective	3
	Semester Subtotal	16
Comments	Junior Year Pick one (3 credit) course in: GP, TLC, USW	

YEAR FOUR

Semester Seven (Senior)		
Course No.	Course Name	Credits
NU 440	NSG Science III	8
NU 415	Group Communication II	1
	LASC Arts Elective	3
	Free Elective	3
	Semester Subtotal	15

Comments Senior Year Fall needs: 1 Creative Arts & Need one 3 credit Free Elective All LASC Electives should be complete by end of semester 7.	
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Semester Eight (Senior)		
Course No.	Course Name	Credits
NU 460	NSG Science IV	3
NU 450	Leadership	3
NU 470	Capstone	7
	Semester Subtotal	13

Track Two (RN-to-BS Program)

Admission Process

All students applying to the RN-BS program must hold a current unencumbered license to practice as an RN in the Commonwealth of Massachusetts. The RN-BS student applying to Worcester State University as a transfer student can receive up to 72 credits transferrable from an accredited associate degree college and a maximum of 90 credits from four year colleges and universities. Students with a BA or BS degree in another major only need to complete the all nursing courses and the pre-requisite courses for the nursing major. Admission requirements include official high school and college transcripts and a minimum 2.5 GPA. Associate degree graduates and diploma graduates earn 29 nursing credits for NCLEX-RN licensure.

The three semester nursing sequence starts in the Fall semester. All applicants must complete the required components of the admission process prior to March 1st for consideration of admittance for September. Students who wish to matriculate into the program and begin taking prerequisites or corequisites early may be admitted as an early admission by completing the application process. However, students *may not enter the nursing sequence of courses without first having completed all prerequisites (including statistics) with a grade of C or higher.*

Track II traditional WSU students will begin in the fall of 2016 with the new outline of nursing courses. The Track II RN to BS program at UMass is a 3 year program and will continue with the previous nursing Track II sequence of courses.

Students in the Quinsigamond Community College/Worcester State University 3+1 program will adhere to the articulation agreement as outlined in the agreement. Students must complete the first six semesters at QCC prior to admission to the RN to BS Track II program.

Track Two Prerequisite Courses

These courses may be transferred if the student has previously taken the course (per college transfer policy) or may be taken at Worcester State University. Prerequisite, corerequisite courses, and Nursing courses may not be taken pass/fail.

• EN 101 & EN 102 English Composition 1 & II (*EN 101 may be waived)

• MA 150 Introduction to Statistics (*pre requisite for NU 430: Research

Seminar OR NU 525: Research for Evidence-Based Practice) (A passing grade for the WSU *Accuplacer* is required by for

this course)

SO 100 Introduction to SociologyPS 101 General Psychology

BI 161 & 162
 Anatomy & Physiology I & II

BI 204 or 206 Microbiology or Medical Microbiology

Sample RN-BS Curriculum WSU Campus

Track Two Nursing Courses: (31 Worcester State University Nursing Credits)

All nursing courses must be taken in sequence. Students must achieve a minimum grade of 80 in each nursing course. Only one nursing course may be repeated to obtain the minimum grade or required GPA and must be repeated within the 2 years.

Track II RN to BS WSU

Semester I

NU 332 Transition to Professional Nursing	3 credits
NU 333 Health Informatics	3 credits
NU 334 Selected Mechanisms of Disease and Related Pharmacology	3 credits
Total	9 credits

Semester II

NU 342 Health Assessment/Health Promotion	4 credits
NU 430 Nursing Research or *NU 525 Research for Evidence Based Practice	3 credits
NU 432 Advancing Nursing Perspectives in Chronic Illness	3 credits
Total	10 credits

Semester III

Total	12 credits
NU 473 Health Policy	3 credits
NU 472 Community/Public Health Nursing	6 credits
NU 452 Leadership in Nursing: A Capstone Experience or *NU 551 Nursing Leadership and Administration	3 credits

Sample RN-to-BS Curriculum UMass Memorial Medical Center (Part Time 3 years)

YEAR ONE Fall		
Course No.	Course Name	Credits
NU 332	Transition to Professional Nursing	3
	LASC/Elective	3
Intersession		
	LASC Elective	3
Spring		
NU 342	Health Assessment	4
	LASC/Elective	3
Summer I		
	LASC/Elective	3
	Semester Subtotal	19

YEAR TWO Fall		
Course No.	Course Name	Credits
NU 430	Nursing Research	3
	OR	
NU 525	Research for evidence practice	3
	LASC/Elective	3
Intersession		
	LASC/Elective	3
Spring		
NU 432	Advancing Perspectives in Chronic Illness Clinical component: 6 days	9
Summer I		
	LASC/Elective	3
	Semester Subtotal	21

YEAR THREE Fall		
Course No.	Course Name	Credits
NU 452	Professional Nursing Leadership	3
	OR	
NU 5551	Nursing Leadership & Administration	
	LASC/Elective	3
Intersession		
	LASC/Elective	3
Spring		
NU 472	Community Nursing Capstone Clinical Component: 4 days plus clinical project	9
	Semester Subtotal	18

RN-to-MS Fast-Track Program*

The RN-to-MS Fast Track Program allows 6 graduate credits (500 Level) to be taken during the program to count toward both the Bachelor of Science and the Master of Science in Nursing degrees. This may be done when the RN meets the criteria for the Fast-Track program, and completes an application for admission to the RN-to-MS Fast-Track Program. The RN-to-MS Fast-Track application process for the Worcester State On Campus program must be completed in the fall semester of the RN-to-BS studies. (to the Graduate Nursing Program through the Graduate School). Students in the WSU/UMMMC collaborative RN-to-BS program: application must be submitted in the spring semester of your first year of studies.

Fast-track students must take courses in the M.S. program the semester after completing the B.S. degree. Otherwise 500 Level courses taken in the senior year will count only towards the RN-to-BS degree unless they are in excess of the credits required for the B.S. degree. All undergraduate degree requirements must be completed **before** students are permitted to take MS level courses beyond NU 525 and NU 551. Only course grades of B- or above will be counted towards the MS degree.

Health Care Agency Requirements: Health, Drug Screening and Other

Nursing students will be placed in a variety of health care settings. Each agency has requirements which the student must fulfill before they are allowed placement. This list may include, but is not limited to, the following; physical exam, immunizations, agency specific orientation, CORI, SORI and drug screening. Progression and mandatory clinical placements in the nursing program are contingent on meeting all agency requirements. If a student is denied placement by the agency for any reason, including a positive drug or CORI report, the nursing department is not responsible for providing alternate clinical placements.

Clinical Course Requirements for ALL Nursing Tracks:

All newly admitted students will be required to participate in an online documentation tracking system, Verified Credentials, and provide the documentation listed below. Students are required to maintain compliance (updated documentation) for the entirety of the program. Information for accessing Verified Credentials will be provided to you by our clinical resource coordinator. Requirements (below) must be electronically submitted include:

- Current, unencumbered license to practice as a Registered Nurse in the Commonwealth of MA.
- CPR: American Heart Association BLS for Health Care Provider or the American Red Cross CPR for the Professional Rescuer are the only accepted certifications
- 3. Health Information Disclosure Form: Available via Certified Credentials
- 4. Proof of Health Insurance
- 5. Physical Exam: Form available via Certified Credentials
- 6. Hepatitis B Immunization Series & positive titer
- MMR (Measles, Mumps and Rubella) Documentation of 2 doses or positive titers for each
- 8. Varicella (documentation of 2 doses or positive titer, history of disease is not accepted
- 9. Tuberculosis
- 10. All students with no past history of a positive Tuberculosis (TB) screening test must provide documentation of annual TB screening. Any student with a TB screening that is greater than 12 months old must provide baseline TB screening through IRGA (Interferon Gamma Release Assay) or a 2 -step TST (tuberculin Skin Test)
- 11. Those who have been vaccinated with BCG (Bacillus Calmette-Guerin) and are accustomed to obtaining chest x-rays are required to have a baseline TB screening. BCG is no longer considered to be a protective measure against TB or a contradiction to TB screening. Should the result be positive, a chest x-ray and a doctor's note is required to rule out active disease
- Tdap (Tetanus/Diphtheria/Pertussis) vaccine, if it has been 5 years or more since the last dose of Td
- Flu Vaccine for current flu season or signed declaration (medical exclusion only)

Please note that Clinical facilities may stipulate additional requirements for which documentation must be provided. Also, many other of these requirements needed to be updated annually or biannually. It is *your* responsibility to submit updated records.

- 1. Criminal Offender Record Investigation (CORI) is required for all students
- Sexual Offender Record Investigation (SORI) and/or drug screening may be required by health care agencies
- Professional liability insurance is renewed annually provided by Worcester State University

Student Organizations:

National Student Nurses' Association: Student led organization that is actively involved in outreach leadership development. Membership is mandatory for matriculated students in Track I and Track III programs.

Sigma Theta Tau International: Iota Phi Chapter-at-Large: the International Honor Society for Nurses provides leadership and scholarship in practice, education and research to enhance the health of all people. Students are selected for membership into the local chapter of the Iota Phi Chapter-at-Large based on academic and personal criteria.

IHI Open School: The mission of the IHI Open Schools to advance health care improvement and patient safety competencies in the next generation of health professionals worldwide. The IHI Open House School provides inter-professional opportunities for students of medicine, nursing, public health, pharmacy, health administration, dentistry, and other allied health professions with the opportunity to learn about quality improvement and patient safety. IHI is a leading innovator in health and health care improvement worldwide.

Requirements for Graduation: For the Bachelor of Science Degree with a major in Nursing students must complete:

- · A minimum of 120 credits
- Each nursing course (and each component) with a minimum grade of 80 and clinical Pass
- All Nursing Department and Worcester State University requirements
- "Intent to Graduate" form

Transfer credits are determined by the transfer admission department upon receipt of the student's official transcripts.

Students enter as Freshmen (year 1)

Must complete all courses listed in Year One in order to move to Sophomore level.

Nursing courses must be taken in sequence, but LASC courses can be taken at any time after freshmen year (unless otherwise specified).

- All nursing courses must have a minimum grade of 80 (B-)
- All prerequisites have a minimum grade C (see below)

The following courses must have a minimum grade requirement of C:

- Human Anatomy & Physiology I and II with lab
- Survey of Chemistry with lab
- Medical Microbiology with lab
- English Composition I and II
- General Psychology
- Statistics I
- Health and Nutrition
- Intro to Sociology
- Health Informatics

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor during the fall and spring preregistration periods to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation. To receive a baccalaureate degree from Worcester State University (WSU), students must complete 30 of last 40 credits at WSU. Worcester State University will transfer a maximum of 72 credits from an accredited associates degree college.

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor during the Fall and Spring pre-registration periods to review their upcoming semester choices. A minimum of 120 credits is required for graduation.

Track III LPN to BS in Nursing Program

This program is designed for those students who have graduated from an accredited Licensed Practical Nursing Program.

Degree Overview:

The LPN to BS in Nursing Track III Program is designed to transition the Licensed Practical Nurse (LPN) to the role of the baccalaureate prepared Registered Nurse. Graduates of this program are prepared to meet societal healthcare needs in a variety of settings. Respect for diversity, social responsibility, and a commitment to excellence in nursing care are emphasized.

Admissions Criteria:

Final deadline for application is February 1, 2016

- · Students are accepted for Fall of each year
- Current unencumbered LPN License
- Grade of an accredited LPN Program with Cumulative Grade Point Average GPA > 2.5
- Successful completion of the Nursing Acceleration Challenge Exams (NACE I, PN-RN)

Test Name	Minimum Score Required
Foundations of Nursing	72
Nursing Care of the Child	62
Nursing Care for the Childbearing Fam	nily 62

Registration and test dates can be found at https://nlnonlinetesting.org/cgi/login.pl

Official transfer credit evaluations are conducted by the Registrar after admission to the University

LPN-to-BSN Full Time for NACE NLN Entrance Exam: 18 credits

YEAR ONE

Fall Semester One		
Course No.	Course Name	Credits
BI 161	Anatomy and Physiology I	4
EN 101	English Composition I (WR)	3
PS 101	General Psychology (HBS)	3
CH 112	Survey of Chemistry (NSP #2)	4
	Semester Subtotal	14

Spring Semester Two		
Course No.	Course Name	Credits
BI 162	Human Anatomy and Physiology II (NSP #1)	4
EN 102	English Composition II (WR)	3
BI 206	Medical Microbiology (NSP)	4
MA 150	Intro to Statistics (QR #1)	3
	Semester Subtota	14

YEARTWO		
Fall Semester	Three	
Course No.	Course Name	Credits
NU 206	Principles of Pathophysiology & Pharmacology I	3
NU 203	Transition from LPN to Professional Nursing	1
NU 430 Nursing Research QLAC		3
SO 100	Introduction to Sociology (HBS)	3
	Constitution (LASC) (CON)	3
	Semester Subtotal	13

Spring Semester Four		
Course No.	Course Name	Credits
NU 216	Principles of Pathophysiology & Pharmacology II	3
NU 213	Health Assessment	2
HE 120	Health and Nutrition (ICW)	3
	LASC (GP)	3
	#2 Elective (QR)	3
	Semester Subtotal	14

YEAR TWO (Continued Summer)

Summer Semester Five		
Course No.	Course Name	Credits
NU 341	Nursing Care of the MEdical Surgical Patient Bridge I	4
	LASC (USW)	3
	LASC (DAC)	3
	Semester Subtotal	10

Spring Semester Six		
Course No.	Course Name	Credits
NU 343	Nursing Care of the Family Bridge II	5
	TLC (CA)	3
	Free Elective (if needed)	2
	Semester Subtotal	10

YEAR THREE

Fall Semester Seven			
Course No.	Course Name	Credits	
NU 440	Nursing Science III	8	
	LASC (TLC)	3	
	Free Elective (if credits needed)	3	
	Semester Subtotal	14	

Spring Semester Eight		
Course No.	Course Name	Credits
NU 460	Nursing Science IV	3
NU 450	Nursing Leadership (WAC)	3
NU 470	Nursing Capstone (CAP)	7
	Semester Subtotal	13

Nursing Courses: Track I, II and III

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

(Open only to students who have been accepted into the undergraduate nursing major)

TRACK I (Undergraduate)

NU 200 Introduction to Professional Nursing I

Prerequisites: BI 161, BI 162; BI 206; CH 112; EN 101, EN 102

Corequisites: NU 206, HE 120

Philosophy and conceptual framework of the program is introduced. Nursing theory, history and professional practice roles are presented. Medical terminology is introduced as well as introduction to medication calculations.

Offered Fall semester every year. 5 credits.

NU 206 Principles of Pathophysiology and Pharmacology I

Prerequisites: BI 161, BI 162; BI 206; CH 112; EN 101, EN 102

Corequisites: NU 200, HE 120

Students will develop beginning principles in providing nursing care for individuals with altered pathophysiological

responses

Offered Fall semester every year. 3 credits.

NU 210 Introduction to Professional Nursing II

Prerequisite: NU 200, PS 101, SO 100 NU 206

Corequisites: NU 216

Health of individuals and families is assessed. Communication, physical assessment, nursing process and other skills for professional practice are introduced. Medication calculations continue and the administration of medication is introduced. Lecture, an on-campus laboratory on physical assessment and off-campus clinical experiences in sub-acute care agencies are included in this course.

Offered Spring semester every year. 5 credits.

NU 216 Principles of Pharmacology II

Prerequisite: NU 200, PS 101, SO 100, NU 206

Corequisites: NU 210

Students will learn underlying principles of safe and competent medication administration.

Offered Spring semester every year. 3 credits.

NU 310 Nursing Science I

LASC-Writing Across the Curriculum

Prerequisites: NU 210, MA 150, BI 206, NU 216

Corequisite: NU 430

Students will apply the nursing process when caring for the childbearing family and adult medical-surgical patients. Concepts of wellness, disease and health behaviors will be examined as the nursing process is operationalized in the care of adult medical-surgical patients and the childbearing family. Lecture and off-campus clinical experiences in maternal-child health nursing and medical-surgical nursing are included in this course.

Offered Fall semester every year. 9 credits.

NU 315 Group Communication Seminar I

Prerequisite: NU 310, NU 430

Corequisite: NU 340

The focus of this course is on effectively assessing, analyzing and problem solving the processes of group interactions with peers in the classroom in order to integrate this information into various health care settings.

Offered Spring semester every year. 1 credit.

NU 340 Nursing Science II

LASC-Writing Across the Curriculum; Diversity Across the Curriculum

Prerequisites: NU 310, NU 430

Corequisite: NU 315

Concepts of wellness, disease, and health behaviors are examined as the nursing process is operationalized in the care of pediatric patients and acutely ill medical-surgical patients. Lecture and an off-campus clinical experience are included in this course.

Offered Spring semester every year. 9 credits.

NU 415 Group Communication Seminar II

Prerequisites: NU 315 and NU 340

Corequisite: NU 440

The independent and interdependent role of the professional nurse as an agent of change is examined.

Offered Fall semester every year. 1 credit.

NU 430 Research Seminar in Nursing

LASC - Quantitative Literacy Across the Curriculum

Prerequisite: MA 150 Corequisites: NU 310

The focus is on the development of the student as a consumer of nursing research and the utilization of research

findings in practice.

Offered Fall semester every year. 3 credits.

NU 440 Nursing Science III

Prerequisites: NU 315 and NU 340

Corequisite: NU 415

Students practice professional nursing with acutely ill adults in mental health care settings and identify multiple aspects of community and public health issues. Critical thinking and decision making skills are developed and applied. Lecture and off-campus clinical experiences are included in this course.

Offered Fall semester every year. 8 credits.

NU 450 Leadership in Nursing

Prerequisites: NU 415, NU 440 Corequisites: NU 460, NU 470 LASC: Writing across the curriculum

This course focuses on theories of leadership, management, delegation and supervision, which supports the knowledge, skill and values integrated by the nurse into professional leadership behavior. Current trends in nursing and in research relating to nursing leadership and management are explored.

Offered Spring semester every year. 3 credits.

NU 460 Nursing Science IV

Prerequisite: NU 415, NU 440 Corequisites: NU 450, NU 470

The focus is on the study and practice of nursing directed at health promotion/restoration of clients with chronic person/environment disunity. Complex health problems are studied in classrooms.

Offered Spring semester every year 3 credit

NU 470 Nursing: Capstone

Prerequisites: NU 415, NU 440 LASC: Capstone

Corequisites: NU 450, NU 460

This seven (7) credit course focuses on Evidence Based Practice in which students will demonstrate the integration and synthesis of all previous learning in the nursing major. Preceptorship opportunities are available to eligible students. Offered Spring semester every year. 7 credits.

TRACK II RN to BS (WSU day program)

NU 332 Transition to Professional Nursing

LASC-Writing Across the Curriculum

Prerequisite: BI 161, BI 162, EN 101, EN 102, PS 101, SO 100, BI 206, MA 150

Co-requisite: NU 333, NU 334

This course focuses on nursing knowledge and theory as foundations of professional nursing. The elements of the Department of Nursing's conceptual nursing practice model are analyzed and examined in terms of nursing, diagnostic, and teaching-learning processes. Legal, ethical and environmental factors are studied in relation to their impact on person/environment unity.

Offered Fall Semester every year. 3 credits

NU 333: Informatics for Nursing

Prerequisite: BI 161, BI 162, EN 101, EN 102, PS 101, SO 100, BI 206, MA 150

Co-requisite: NU 332, NU 334

Nursing informatics combines knowledge and skills from nursing science, computer science, information science and cognitive science to design and implement automated systems that support the nursing process in the delivery of healthcare services.

Offered Fall Semester every year. 3 credits

NU 334: Selected Mechanisms of Disease and Related Pharmacology

Prerequisite: BI 161, BI 162, EN 101, EN 102, PS 101, SO 100, BI 206, MA 150

Co-requisite: NU 332, NU 333

The focus of this course is on the study of the interrelatedness of pathophysiology and pharmacodynamics. This nursing focus examines health problems across the lifespan which produce alterations in human functioning and the subsequent response, along with the pharmacological management of these problems. Interventions focus on the reparative process.

Offered Fall Semester every year. 3 credits

NU 342: Health Assessment/Health Promotion

Prerequisite: NU 332, NU 333, NU 334

Co-requisite: NU 430, NU 432

The nursing process is used as the organizing framework to identify person/environment unity of individuals. A variety of skills and theories relevant to professional nursing practice are utilized. The student will develop an increased knowledge base and skills related to performing a complete physical examination of the adult patient.

Offered Spring semester every year. 4 credits

NU 430: Research Seminar in Nursing

LASC - Quantitative Literacy Across the Curriculum

Prerequisite: NU 332, NU 333, NU 334

Co-requisite: NU 342, NU 432

The focus is on the development of the student as a consumer of nursing research and the utilization of research

findings in practice.

Offered Spring semester every year. 3 credits

NU 432: Advancing Nursing Perspectives in Chronic Illness

Prerequisite: NU 332, NU 333, NU 334

LASC: DAC

Co-requisite: NU 342, NU 430

The focus of this course is on the study and practice of nursing directed at health promotion/prevention/restoration of patients with chronic diseases in various states of illness and wellness.

Offered every Spring semester every year. 3 credits

NU 452: Professional Nursing Leadership

Prerequisite: NU 342, NU 430, NU 432

Co-requisite: NU 472, NU 473

Offered every Fall semester every year. 3 credits

NU 472: Community/Public Health Nursing

Prerequisite: NU 342, NU 430, NU 432

Co-requisite: NU 452, NU 473

The focus on this course is on the study and practice of community/public health-oriented nursing.

Offered every Fall semester every year. 6 credits

NU 473: Health Policy

Prerequisite: NU 342, NU 430, NU 432 Co-requisite: NU 452, NU 472

This course introduces the basic framework for health policy with focus on research, review and analysis of the major components of the US health policies in health care.

Offered every Fall semester every year. 3 credits.

*NU 525 Research for Evidence-Based Practice

Prerequisite: NU 332, NU 333, NU 334 and permission of the instructor

Co-requisite: NU 342, NU 432

*NU 551 Nursing Leadership and Administration

Prerequisite: NU 342, NU 430, NU 432 and permission of the instructor

Co-requisite: NU 472, NU 473

Note: * Courses may only be taken with permission of instructor with an application to graduate program.

TRACK II (RN-TO-BS UMASS Memorial Medical Center)

These courses offered to current employees of UMASS Memorial Medical Center

NU 332 Transition to Professional Nursing

LASC-Writing Across the Curriculum

Prerequisite: BI 161, BI 162, EN 101, EN 102, PS 101, BI 206, MA 150, SO 100

This course focuses on nursing knowledge and theory as foundations of professional nursing. The elements of the Department of Nursing's conceptual nursing practice model are analyzed and examined in terms of nursing, diagnostic, and teaching-learning processes. Legal, ethical and environmental factors are studied in relation to their impact on person/environment unity.

Offered every Fall semester at UMASS Memorial Medical Center (3 credits)

NU 342 Health Assessment

Prerequisite: MA 150, NU 332

The nursing process is used as the organizing framework to identify person/environment unity of individuals. A variety of skills and theories relevant to professional nursing practice are utilized. The student will develop an increased knowledge base and skills related to performing a complete physical examination of the adult and pediatric client. Offered every Spring semester at UMASS Memorial Medical Center (4 credits)

NU 430 Research Seminar in Nursing

Refer to Track I Course Description Prerequisite: NU 342, NU 332, MA 150

The focus is on the development of the student as a consumer of nursing research and the utilization of research findings in practice.

Offered Fall semester every year at UMASS Memorial Medical Center

Offered Spring Semester at WSU

3 credits.

NU 432 Advancing Nursing Perspectives in Chronic Illness

Prerequisite: NU 342, NU 332, MA 150

The focus of this course is on the study and practice of nursing directed at heath promotion/prevention/ restoration of clients with chronic person/environment disunity. Theories and environmental factors that influence health promotion, prevention and restoration of particular client populations are examined. The nursing practice model is further applied to maximize person/environmental unity of clients with chronic alterations in functional patterns.

Offered spring semester at UMASS Memorial Medical Center

(9 credits)

NU 452 Professional Nursing Leadership in Organizations

Prerequisite: NU 430. NU 432

The course focuses on leadership management, delegation and supervision, which supports the knowledge, skills and values integrated by the professional RN leadership role in organizations.

Offered Fall Semester each year at WSU and UMASS Memorial Medical Center Campus (3 credits)

NU 472 Community Nursing Capstone Course

Prerequisite: NU 430, NU 432, NU 452

The focus of this course is on the study and practice of community-oriented nursing. Theories and environmental factors which influence the health of communities are analyzed. The application of the nursing process and diagnostic reasoning in promoting the health of individuals, families and communities is emphasized. Clinically students collaborate with preceptor and faculty to integrate community/public health nursing theory into practice.

Offered spring semester at UMASS Memorial Medical Center

(9 credits)

NU 525 Research for Evidence Based Practice

Prerequisite: MA 150, Special permission by instructor

Students build upon previous learning of research design, methods and process. the critical relationship of research to nursing as a science as well as its development as a professional discipline.

(3 credits)

TRACK III (Undergraduate) LPN-BS

NU 203 Transition from LPN to Professional Nursing

Pre-requisites: BI 161, BI 162, EN 101, EN 102, CH 112, BI 206, MA 150, PS 101

Corequisite: NU 430 NU 206

This course focuses on the transition from the Licensed Practical Nurse to the Baccalaureate prepared registered nurse. Emphasis will be placed on the Massachusetts Board of Registration in Nursing Nurse Practice Act in context of legal accountability and responsibility. Emphasis will be placed on the changing and expansion of critical thinking as a Registered Nurse. Included will be an exploration of the RN's role within the interdisciplinary health care team.

Offered Fall semester every year, 1 credit.

NU 206 Principles of Pathophysiology & Pharmacology I (refer to Track I course description)

Pre-requisites: BI 161, BI 162, EN 101, EN 102, CH 112, BI 206, MA 150, PS 101

Corequisite: NU 230 NU 430

NU 213 Health Assessment

Corequisite: NU 215, HE 120

Pre-Requisites: NU 203, NU 206, NU 430

This course provides a foundation for nursing assessment of the adult client Interviewing techniques, health history taking, physical assessment and critical thinking skills are developed. Normal findings and deviations from normal are explored. Changes related to age are discussed. A clinical component allows students to apply classroom knowledge.

Offered Spring semester every year. 2 credits

NU 216 Principles of Pathophysiology & Pharmacology II (refer to Track I course description)

Pre-Requisites: NU 203, NU 206, NU 430

Corequisites: HE 120, NU 213

Offered every Spring

NU 341 Nursing Care of the Medical Surgical Patient Bridge I

Prerequisite: NU 213. NU 216. HE 120

This course provides the LPN with an understanding of the medical-surgical patient from the perspective of the registered nurse. Nursing process and the expansion of critical thinking to the level of the registered nurse are stressed. This course places emphasis on the professional nurse's care of the patient with complex medical-surgical issues in the acute care clinical setting.

Offered summer session every year. 4 credits

NU 343 Nursing Care of the Family: Bridge II

Prerequisite: NU 213. NU 216. HE 120

This course provides the LPN with an introduction to the role of the bachelor's prepared registered nurse in the care of the child-bearing family, family health promotion, high risk maternal-newborn care and clinical decision making. This course places emphasis on the multisystem pediatric and family-centered issues, complex nursing assessment with community and hospital based patients and families.

Offered summer session every year. 5 credits

NU 430 Research Seminar in Nursing (refer to Track I course description)

Pre-Requisities: BI 161, BI 162, BI 206, EN 101, EN 102, PS 101, SO 100, CH 112, MA 150

Corequisite: NU 203, NU 206

Offered every Fall Semester 3 Credits

NU 440 Nursing Science III

Prerequisites: NU 341, NU 343

Students practice professional nursing with acutely ill adults in mental health care settings and identify multiple aspects of community and public health issues. Critical thinking and decision making skills are developed and applied. Lecture and off-campus clinical experiences are included in this course.

Offered Fall semester every year. 8 credits.

NU 450 Leadership in Nursing

Pre-Requisites: NU 440

Co-Requisites: NU 460, NU 470

This course focuses on theories of leadership, management, delegation and supervision, which supports the knowledge, skill and values integrated by the nurse into professional leadership behavior. Current trends in nursing and in research relating to nursing leadership and management are explored.

Offered Spring semester every year. 3 credits.

NU 460 Nursing Science IV

Pre-requisite: NU 440

Co-requisite: Nu 450, NU 470

The focus is on the study and practice of nursing directed at health promotion/restoration of clients with chronic person/environment disunity. Complex health problems are studied in classrooms and clinical settings. Offered every spring 3 credits

NU 470 Nursing: Capstone

Pre-Requisites: NU 440

Co-Requisites: NU 450, NU 460

This seven (7) credit course focuses on Evidence Based Practice in which students will demonstrate the integration and synthesis of all previous learning in the nursing major. Preceptorship opportunities are available to eligible students. Offered Spring semester every year. 7 credits.

NU 480 Independent Study

Prerequisite: Consent of Department

Opportunities for student to engage in special studies in nursing according to individual interests and faculty availability. Offered every year 1-6 credits.

NU 357 Global Perspectives in Health

Prerequisite: Acceptance into Nursing Faculty- Led Global Health Trip

Interactive course preparing students for global service immersion experience in partnership with host community.





Occupational Studies Department of Occupational Therapy

Faculty

Jacqueline R. Brennan, Associate Professor (1987)

B.S., University of Connecticut; M.A. Assumption College; M.S., Boston University

Patricia A. Donovan, Associate Professor (2000)

B.S., Framingham State College; M.S., Boston University; Ed.D., Argosy University

Joanne Gallagher Worthley, Professor, Department Chair (1996)

B.S., Quinnipiac College; M.S., Florida International University; Ed.D., Johnson & Wales University

Patricia C. George, Academic Fieldwork Coordinator (1998)

B.S., M.S., Worcester State College

Cheryl B. Lucas, Instructor (2015)

B.S., Tufts University; M.S., Boston University

Bachelor of Science Occupational Studies Program

The Bachelor of Science in Occupational Studies program offers a stimulating and challenging curriculum that blends professional coursework with a traditional liberal arts education. Students begin by learning the philosophy and founding principles of occupational therapy along with acquiring a thorough understanding of biological, psychological, and social aspects of human beings. In upper division coursework, students learn to apply this knowledge and to develop occupational therapy clinical reasoning skills for evaluation of and intervention with persons across the lifespan. Between the junior and senior years, students with good academic standing are eligible to apply for admittance to the Master of Occupational Therapy Program. Acceptance and completion of the undergraduate program in occupational studies does not guarantee admission into the Master of Occupational Therapy Program. Only graduates of the Master of Occupational Therapy Program are eligible to sit for the national examination administered by the National Board for Certification in Occupational Therapy.

A passing score on this examination allows the graduate to apply for a license to practice that is required by most states within the United States, including Massachusetts. For further information regarding certification contact: NBCOT; 800 Frederick Avenue, Suite 200, Gaithersburg, Maryland, 20877-4150; (301) 990-7979; www.nbcot.org.

The combined Bachelor of Science in Occupational Studies and Master of Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education. For further information regarding accreditation contact: ACOTE; 4720 Montgomery Lane, Suite 200, Bethesda, Maryland, 20814-3449; (301) 652-2682; www.acoteonline.org.

Program Application Process

Application to enter the BSOS Program as a first-year student is made through the Admissions Office at the time of application to Worcester State University. Students are encouraged to apply early due to limited enrollment.

First-year students are admitted on the basis of SAT scores, high school rank, and coursework relevant to the major.

Any individual who has been convicted of a felony or misdemeanor involving an act likely to affect professional practice should meet with the Department Chair prior to applying to the program. Prior incidents may affect eligibility for fieldwork, certification, and employment. A CORI check and/or drug test is typically required prior to Fieldwork Level I and Level II placement.

Policies

- All undergraduate occupational therapy prerequisite and major courses must be completed with a grade of C or better.
- Courses must be taken in the prescribed sequence unless an exception is granted by the Department Chair.
- All undergraduate and graduate level coursework must be successfully completed before beginning Level II Fieldwork.
- The second Level II Fieldwork experience must be completed within 12 months of academic coursework.
- Eligibility to sit for the national certification examination requires successful completion of six-months of Level II Fieldwork.
- The Occupational Therapy Department has a student handbook that is updated yearly and contains department-specific policies. Each student is responsible for adhering to the polices. The Department reserves the right to modify policies and curriculum during a student's enrollment. Sufficient notice of any changes will be provided to the students.

Requirements for the Major

The following courses are required:

BI 161	Anatomy & Physiology I (4 credits)
BI 162	Anatomy & Physiology II (4 credits)
BI 215	Neuroscience (4 credits)
BI 271	Kinesiology (3 credits)
PS 101	General Psychology I (3 credits)
PS 210	Developmental Psychology (3 credits)
PS 322	Psych of Aging (3 credits)
MA 150	Statistics I (3 credits) or PS 275 Psychological Statistics (4 credits)

OT Major Courses for the BSOS (53 credits)

OT 101	Introduction to Occupational Studies of Wellness/Disability (3 credits)
OT 102	Occupational Studies of Wellness/Disability Groups (3 credits)
OT 203	Occupational Therapy Theories (3 credits)
OT 211	Kinesiology Lab (1 credit)
OT 301	Psychosocial Wellness/Disability (2 credits)
OT 302	Psychosocial Therapeutic Approaches (3 credits)
OT 304	Psychosocial Therapeutic Approaches Lab (2 credits)
OT 312	Physiological Wellness/Disability (2 credits)
OT 313	Physiological Therapeutic Approaches (3 credits)
OT 317	Research I (3 credits)
OT 318	Physiological Therapeutic Approaches Lab (2 credits)
OT 401	Occupational Performance & Context for Elders (2 credits)
OT 402	Therapeutic Approaches for Elders (3 credits)
OT 403	Therapeutic Approaches Lab for Elders (2 credits)
OT 404	Assistive Technology I (3 credits)
OT 407	Research II (3 credits)
OT 421	Occupational Performance & Context for Children/Adolescents (2 credits)
OT 423	Therapeutic Approaches Lab for Children/Adolescents (2 credits)
OT 424	Assistive Technology II (3 credits)
OT 426	Organizational and Professional Issues I (3 credits)
OT 427	Therapeutic Approaches for Children/Adolescents (3 credits)
Major Cours	ses for the MOT (33 credits)

OT Maj

OT 903	Clinical Reasoning I (3 credits) - Fall Semester
OT 905	Clinical Reasoning II (3 credits) - Spring Semester
OT 906	Global Health Issues (3 credits) - Spring Semester
OT 908	Community Health (3 credits) - First Summer Semester
OT 928	Thesis Seminar I (3 credits) - First Summer Semester
OT 929	Thesis Seminar II (3 credits) - Fall Semester
OT 930	Thesis Seminar III (3 credits) - Spring Semester
OT 931	Organizational and Professional Issues II (3 credits) - Fall Semester
OT 920	Physical Disabilities Fieldwork II (3 credits) - Second Summer or Fall Semester
OT 921	Psychosocial Fieldwork II (3 credits) - Second Summer or Fall Semester

Assessment & Evaluation Across the Lifespan (3 credits) - First Summer OT 933

Semester

Department of Occupational Therapy: Occupational Studies Sample Timeline for Completion of Degree

YEAR ONE

Semester One		
Course No.	Course Name	Credits
OT 101	Introduction to Occupational Studies	3
BI 161	Anatomy and Physiology I	4
PS 101	General Psychology (HBS*)	3
EN 101	English Composition I	3
LASC	First-Year Seminar	3
	Semester Subtotal	16

Semester Two		
Course No.	Course Name	Credits
OT 102	Occupational Studies of Wellness/Disability Groups	3
BI 162	Anatomy and Physiology II (NSP*)	4
EN 102	English Composition II	3
LASC	Distribution Elective (Constitutions)	3
LASC	Distribution Elective (QR*)	3
Semester Subtotal		16
Comments	EN 101 with EN 102 satisfies LASC Writing. By the end of Semester two term, students must have an Accuplacer score of 4 to take MA 150. Alternative in Fall 2 is PS 275.	

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
OT 203	Occupational Therapy Theories	3
PS 210	Developmental Psychology (HBS*)	3
BI 215	Neuroscience	4
MA 150	Statistics I or PS 275 Psychological Statistics (QR*)	3-4
LASC	Distribution Elective (USW*)	3
	Semester Subtotal	16-17

Semester Four		
Course No.	Course Name	Credits
OT 211	Kinesiology Lab	1
PS 322	Psychology of Aging	3
BI 271	Kinesiology (Lecture) (NSP*)	3
LASC	Distribution Elective (GP*)	3
LASC	Distribution Elective (WAC*)	3
	Semester Subtotal	13

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
OT 301	Psychosocial Wellness/Disability	2
OT 302	Psychosocial Therapeutic Approaches	3
OT 304	Psychosocial Therapeutic Approaches Lab	2
OT 317	Research 1	3
LASC	Distribution Elective (CA*)	3
LASC	Distribution Elective (TLC*)	3
	Semester Subtota	I 16

Semester Six		
Course No.	Course Name	Credits
OT 312	Physiological Wellness/Disability	2
OT 313	Physiological Therapeutic Approaches	3
OT 318	Physiological Therapeutic Approaches Lab	2
LASC	Distribution Elective (ICW*)	3
LASC	Distribution Elective (QLAC*)	3
LASC	Distribution Elective (DAC*)	3
	Semester Subtotal	16

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
OT 401	Occupational Performance and Context for Elders	2
OT 402	Therapeutic Approaches for Elders	3
OT 403	Therapeutic Approaches Lab for Elders	2
OT 404	Assistive Technology I	3
OT 407	Research II	3
SELECT	General Elective	3
	Semester Subtotal	16

Semester Eight		
Course No.	Course Name	Credits
OT 421	Occupational Performance and Context for Children/Adolescents	2
OT 427	Therapeutic Approaches for Children/Adolescents	3
OT 423	Therapeutic Approaches Lab Children/Adolescents	2
OT 424	Assistive Technology II	3
OT 426	Organizational and Professional Issues I (CAP)	3
	Semester Subtotal	13

TOTAL CREDITS= 120-121

Note: The sequence of LASC courses marked with * is a suggestion but serves as a reminder that LASC designated courses must be taken to satisfy the LASC requirements.

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Occupational Therapy Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

OT 101 Introduction to Occupational Studies of Wellness/Disability

Introduction to occupational therapy history, philosophy, wellness/disability continuum, contexts, occupations, occupational performance, professionalization and clinical reasoning.

Offered every year. 3 credits

OT 102 Occupational Studies of Wellness/Disability Groups

Exploration of professional themes: philosophy, wellness/disability continuum using groups, occupational performance and activity, professionalization and clinical reasoning.

Offered every year. 3 credits

OT 193 Special Topics in Occupational Therapy for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

OT 203 Occupational Therapy Theories

Investigation of theories basic to occupational therapy, related to occupation, individual and context. Includes current and developing models of practice.

Offered every year. 3 credits

OT 211 Kinesiology Lab

Concurrent with BI 271

Opportunities to develop skills that apply kinesiology to occupational therapy practice.

Offered every year. 1 credit

OT 301 Psychosocial Wellness/Disability

Concurrent with OT 302 and OT 304

Historical themes of the profession, wellness/illness/disability continuum, occupation and context as it applies to psychosocial performance in life roles.

Offered every year. 2 credits

OT 302 Psychosocial Therapeutic Approaches

Occupational performance and context, professionalization, and clinical reasoning will be applied to practice models when addressing psychosocial health and illness.

Offered every year. 3 credits

OT 304 Psychosocial Therapeutic Approaches Lab

Directed observation and participation in the clinical application of theories and methods of occupational therapy intervention with psychosocial disorders. Includes Fieldwork I.

Offered every year. 2 credits

OT 312 Physiological Wellness/ Disability

Concurrent with OT 313 and OT 318

Historical themes of the profession, wellness/illness/disability continuum, occupation and context as it applies to physiological performance in life roles.

Offered every year. 2 credits

OT 313 Physiological Therapeutic Approaches

Occupational performance and context, professionalization, and clinical reasoning will be applied to practice models when addressing physiological health and illness.

Offered every year. 3 credits

OT 317 Research I

Prerequisite: MA 150 or PS 275

Course examines measurement issues, concerns and tools; and why and how to use evidence in practice. Offered every year. 3 credits

OT 318 Physiological Therapeutic Approaches Lab

Directed observation and participation in the clinical application of theories and methods of occupational therapy intervention with physiological disorders. Includes Fieldwork I.

Offered every year. 2 credits

OT 400 Special Topics

Selected areas of interest to students and instructor. Topic, prerequisites and instructor are announced in advance. Offered every year. 1-3 credits

OT 401 Occupational Performance and Context for Elders

Concurrent with OT 402, OT 403 and OT 404

The wellness/illness/disability continuum will be applied to occupational performance in life roles for the geriatric population.

Offered every year. 2 credits

OT 402 Therapeutic Approaches for Elders

Occupational therapy strategies for elders across the wellness/illness/disability continuum with emphasis on occupational performance/context and clinical reasoning.

Offered every year. 3 credits

OT 403 Therapeutic Approaches Lab for Elders

Experiential learning with assessments and intervention approaches for elders. Includes Fieldwork 1 experience in various sites off campus.

Offered every year. 2 credits

OT 404 Assistive Technology I

Assistive technology related to the needs of the adult and geriatric populations will be explored Offered every year. 3 credits

OT 407 Research II

Course examines research design, quantitative and qualitative, human subject protection and program evaluation. Students will develop a research proposal.

Offered every year. 3 credits

OT 411 Occupational Therapy International Service Learning Experience

Instruction in occupational, therapy methods with an experiential component providing intervention to an underserved population in a foreign country.

Offered every year. 2 credits.

OT 421 Occupational Performance and Context for Children/Adolescents

Concurrent with OT 423, OT 424 and OT 427

Wellness/illness/disability continuum will be applied to performance in life roles related to the child and adolescent populations.

Offered every year. 2 credits

OT 423 Therapeutic Approaches Lab for Children/Adolescents

Experiential learning with assessments and intervention approaches; professional oral and written communication skill development. Includes Fieldwork I experience.

Offered every year. 2 credits

OT 424 Assistive Technology II

Assistive technology applied to the occupational performance and context of child and adolescent populations. Offered every year. 3 credits

OT 426 Organizational and Professional Issues I

LASC - Major Capstone

Introduction to principles of organization, administration and management applied to the delivery of occupational therapy services in various practice settings. Work relationships, ethical issues and laws influencing practice will also be discussed.

Offered every year. 3 credits

OT 427 Therapeutic Approaches for Children/Adolescents

Occupational therapy strategies for child and adolescent populations across wellness/illness/disability continuum with emphasis on occupational performance and context.

Offered every year. 3 credits



3 credits

3 credits

3 credits

Physical Education Department of Health Sciences

The physical education program offers minors in Sport Coaching and Health Fitness and a wide variety of activities including basketball, dance, fitness, golf, sailing, self defense, stress management, tennis, volleyball, weight training, yoga, and individual, dual, and team sports.

Sport Coaching Minor: 18 credits

Coaches have an exceptional opportunity to exert a strong positive influence on players and to that end the minor adheres to the National Association for Sport and Physical Education (NASPE) coaching standards that emphasize ethics, safety, team play and leadership. Courses also address the need for coaches to produce the safest environment for players and others and to avoid litigation by adhering to the objectives of the National Federation of State High School Associations (NFHS).

Required Courses: PE 175

PE 220

Elective Courses:		
HC 228	Health Ethics	3 credits
HE 120	Health and Nutrition*	3 credits
HE 285	Drugs and Society*	3 credits
PE/SO 190	Sport and Society	3 credits
PE 210	Foundations of Strength and Conditioning	3 credits
PE 240	Athletic Programs	3 credits
PE/HE 260	First Aid: Advanced Theory and Skills	3 credits

Principles of Coaching

Survey of Athletic Training*

Practicum in Health/Fitness

A minimum grade of 2.0 must be earned in required and elective courses. Prerequisites must average a minimum of 2.0.

^{*}prerequisites: BI 162 Anatomy and Physiology II 4 credits **and** either HE 170 Humans in Motion, 3 credits, **or** BI 271 Basic Kinesiology, 3 credits.

Health Fitness Minor: 18 credits

The minor encompasses both the knowledge and skills required in the growing field of Health Fitness. Applications focus on improving health and fitness at both the individual and population levels.

Required Courses:

HE 120	Health and Nutrition	3 credits
PE 210	Foundations of Strength and Conditioning*	3 credits
PE 220	Survey of Athletic Training*	3 credits

Elective Courses: 9 credits

PE/HE 15	50 Health ar	nd Physical Education for the Teacher	3 credits
PE 19	90 Sport and	d Society	3 credits
PE 24	40 Athletic F	Programs	3 credits
PE/HE 26	60 First Aid:	Advanced Theory and Skills	3 credits
PE/HE 27	75 Fitness fo	or Life	3 credits
PE/HE 28	80 Stress M	lanagement	3 credits
HE 28	B5 Drugs an	nd Society	3 credits
PE 42	20 Practicun	m in Health Fitness	3 credits

^{*}prerequisites: BI 161 Anatomy and Physiology I, 4 credits, **and** either HE 170 Humans in Motion, 3 credits, **or** BI 271 Basic Kinesiology, 3 credits.

A minimum grade of 2.0 must be earned in required and elective courses. Prerequisites must average a minimum of 2.0.

Physical Education Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

PE 100 Physical Education Activity Courses

Activities include basketball, dance, fitness, golf, racquetball, relaxation, sailing, self-defense, softball, tennis, volleyball, weight training, yoga.

Offered every year. 1 credit.

PE/HE 140 Introduction to Creative Arts and Health

An experiential and didactic introduction to making connections between the arts process/product and health. Offered every 3 years. 3 credits.

PE/HE 150 Health and Physical Education for the Teacher

The planning, development, implementation and evaluation of comprehensive health education programs. Offered every year. 3 credits.

PE 175 Principles of Coaching

The values, relationships, and skills necessary to coach children and young adults in competitive athletics. Offered every 2 years. 3 credits.

PE 190 Sport and Society

Analysis of sport as a social system; the implications of sport within interrelational contexts of other social systems. Offered every 2 years. 3 credits.

PE 205 Coaching Team Sports for Men

The techniques and strategies of coaching basketball and baseball. Offered every 2 years. 3 credits.

PE 210 Foundations of Strength and Conditioning

Prerequisites: BI 161 and HE 170 or BI 271

An introduction to the principles of functional training that meet sport specific needs of athletes. Offered every year. 3 credits.

PE 215 Coaching Tennis

Selecting, training, strategies and teaching techniques in developing a tennis program. Offered every year. 3 credits.

PE 220 Survey of Athletic Training

Prerequisites: BI 161 and HE 170 or BI 271

General overview of athletic training with a clinical approach to prevention, evaluation and rehabilitation of injuries common to athletes.

Offered every 2 years. 3 credits.

PE 240 Athletic Programs

Financing, scheduling, administering, and evaluating, athletic programs.

Offered every year. 3 credits.

PE/HE 260 First Aid: Advanced Theory and Skill

Common emergencies, cardiopulmonary resuscitation, auto extrication, and emergency childbirth. Opportunity for instructor rating.

Offered every 3 years. 3 credits.

PE/HE 275 Fitness for Life

Knowledge of health-related fitness components and their effect on total wellness; emphasis on developing personalized fitness programs.

Offered every year. 3 credits.

PE/HE 280 Individualized Stress Management and Relaxation

Strategies and techniques for increasing stress resistance based on psychophysiological research. Offered every year. 3 credits.

PE 300 Fitness Appraisal and Exercise Prescription

Prerequisites: BI 161, BI 162, PE 275

Administration and interpretation of health-fitness tests, formulation of individualized exercise prescriptions and methods of teaching fitness programs.

Offered every year. 3 credits.

PE 400 Independent Study in Physical Education/Coaching

Prerequisite: Consent of department

Opportunity to engage in research in an area of special interest not covered in elective course offerings. Offered every year. 1 - 6 credits.

PE 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

PE 410 Field Experience in Physical Education/Coaching

Prerequisite: Consent of department

Organizing and conducting either physical education or coaching activities at the elementary or secondary level. (40 hours for each credit)

Offered every year. 3-6 credits.

PE 415 Special Topics in Physical Education

Prerequisite: Permission of department and instructor

Covers special interest topics.

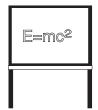
Offered every semester. 3 credits

PE 420 Practicum in Health Fitness

Prerequisite: Consent of department

Opportunity to gain practical experience under supervision in a health fitness field placement.

Offered every year. 3 credits.



Physics

Department of Earth, Environment and Physics

Faculty

Matthias Dietrich, Assistant Professor (2014) M.A., Ph.D., University of Göttingen, Germany

William J. Hansen, Associate Professor, Department Chair (2005)

B.A., State University of New York, Albany; M.A., Hunter College;

Ph.D., City University of New York Graduate Center

Francisco J. Lamelas, Associate Professor (2005)

B.S., University of Wisconsin-Milwaukee; M.S., University of Wisconsin-Madison; M.S., Ph.D., University of Michigan

Sudha R. Swaminathan, Professor (2005)

A.B., (Physics), A.B., (Mathematics) Mount Holyoke College;

M.S., Ph.D., University of Michigan

Requirements for a Minor in Physics: 18 credits in Physics including

PY 221 & PY 222 General Physics I and II or

PY 241 & PY 242 Physics I and II

A physics minor is very useful in many technical fields, since the study of physics develops an understanding of basic principles, mathematical modeling, and practical applications. Specific areas where a physics background is useful include imaging techniques in medicine and biology, analytical instrumentation in chemistry, remote-sensing techniques in the geosciences, and the development of realistic physical models in computer science and mathematics.

Physics Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

PY 101 Introduction to Astronomy

LASC-Natural Systems and Processes

The tools of the astronomer. The nature of stars, their location and cosmology. Planets and the solar system. Offered every year. 3 credits.

PY 105 Concepts in Physics I

LASC-Natural Systems and Processes (Laboratory Course)

Prerequisite: Accuplacer code 3 or above

Concepts and physical principles of motion, force, mechanical work, energy, and momentum. Torque and angular momentum. Fluids, heat, and thermodynamics. Two hours lecture and one two-hour laboratory.

Offered every year. 3 credits. Credit will not be awarded for more than one of PY 105, PY 221, and PY 241.

PY 106 Concepts in Physics II

LASC-Natural Systems and Processes

Prerequisite: Accuplacer code 3 or above

Electrostatics, including electric forces and electric potential. Simple circuits, electrical power, and generators. Magnetic fields and forces, light, and relativity.

Offered every year. 3 credits. Credit will not be awarded for more than one of PY 106, PY 222, and PY 242.

PY 112 Physics in Art

LASC—Natural Systems and Processes (Laboratory Course); Quantitative Literacy Across the Curriculum; Writing Across the Curriculum

Prerequisite: Accuplacer code 3 or above or successful completion of a college level math class; EN 102

Concepts in optics and modern physics applied to the analysis of paintings, conservation of art objects and detection of forgeries. Three hours lecture and two hours laboratory.

Offered every year. 4 credits.

PY 114 Physics of Waves

LASC-Natural Systems and Processes; Quantitative Literacy Across the Curriculum

Prerequisite: Accuplacer code 3 or above or successful completion of a college level math class

Wave phenomena, including water waves, sound, acoustics, musical instruments, optics and quantum mechanics. Analysis of propagation, power, scattering and interference.

Offered every year. 3 credits.

PY 193 Special Topics in Physics for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year 3 credits.

PY 221 General Physics I

LASC-Natural Systems and Processes (Laboratory Course); Quantitative Literacy Across the Curriculum

Prerequisite: MA 190 (or higher)

Physics with algebra and trigonometry, including kinematics, dynamics, energy, momentum, gravity, oscillators, waves and heat. Three hours lecture and two hours lab.

Offered every year. 4 credits. Credit will not be awarded for more than one of PY 105, PY 221, and PY 241.

PY 222 General Physics II

LASC-Natural Systems and Processes (Laboratory Course)

Prerequisite: PY 221

Physics with algebra and trigonometry including electric and magnetic fields, resistance, capacitance, inductance, reflection, refraction, interference, relativity and quantum physics. Three hours lecture and two hours laboratory. Offered every year. 4 credits. Credit will not be awarded for more than one of PY 106, PY 222, and PY 242.

PY 240 Optics

Prerequisite: One semester of college-level physics and MA 190, or consent of the instructor.

Image formation with mirrors and lenses. Interference, diffraction, dispersion, and polarization. Lasers. Microscopes and spectrometers. Cameras and image processing.

Offered every 2 years. 3 credits.

PY 241 Physics I (Mechanics)

LASC—Natural Systems and Processes (Laboratory Course); Quantitative Literacy Across the Curriculum Prerequisite: One semester of calculus (may be taken concurrently).

Physics with calculus, including kinematics, dynamics, energy, momentum, gravity, oscillators, waves, and heat. Three hours lecture and two hours lab.

Offered every year. 4 credits. Credit will not be awarded for more than one of PY 105, PY 221, and PY 241.

PY 242 Physics II (Electricity, Magnetism and Optics)

LASC—Natural Systems and Processes (Laboratory Course)

Prerequisite: One semester of calculus, PY 241.

Physics with calculus including electric and magnetic fields, resistance, capacitance, inductance, reflection, refraction, interference, relativity and quantum physics. Three hours lecture and two hours lab.

Offered every year. 4 credits. Credit will not be awarded for more than one of PY 106, PY 222, and PY 242.

PY 297 Selected Topics in Physics

Prerequisite: Consent of instructor

Lecture or laboratory course in a selected area in physics. Topic announced in advance.

1-6 credits.

PY 310 Modern Physics

Prerequisite: PY 222 or PY 242, and one semester of calculus.

Special relativity. The wave nature of matter, introductory quantum mechanics, and atomic physics. Condensed

matter. Radioactivity. Nuclear and particle physics.

Offered every 2 years. 3 credits.

PY/CH 360 Introduction to Materials Science

Prerequisites: CH 120, CH 121, and either PY 221, PY 222 or PY 241, PY 242

Physical structure of solids. Electrical, magnetic, thermal and optical properties of solids, liquids and soft matter.

Structure-property relationships in materials.

Offered every 2 years. 3 credits.

PY/CH 370 Introduction to Nuclear Science

Prerequisites: CH 120, CH 121, and either PY 221, PY 222 or PY 241, PY 242

Foundations of nuclear science. Topics include nuclear structure and forces, radioactive decays, nuclear reactions,

and modern applications. Offered every other year. 3 credits.

PY 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

PY 410 Independent Study in Physics

Prerequisite: Consent of department

Opportunity for advanced students to pursue topics of special interest involving extensive reading, experimentation, and research.

Offered every year, 1-6 credits.

PY 460 Physics Internship

Prerequisite: Consent of Physics faculty

Advanced students assigned to external public or private agency, working under agency and physics faculty

supervision.

Offered every year. 1-4 credits.

PY/BI 451 Nuclear Instrumentation I

Prerequisite: Consent of NMT coordinator

The structure, functions, and interactions of particulate and non-particulate radiations with matter, detection, calibration, dosage, and statistical methods.

Offered every year. 4 credits.

PY/BI 452 Nuclear Instrumentation II

Prerequisite: Consent of NMT coordinator

Designed to further the skills of operating, calibrating, and performing routine maintenance on scanners, gamma cameras, well counters, and liquid scintillation counters.

Offered every year. 4 credits.



SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

Dr. Jane O'Brien Friederichs

Interim Dean of the School of Humanities and Social Sciences

LOCATION

Sullivan Academic Center Second Floor, Room S-210

Business Administration and Economics

Communication

Criminal Justice

English

History and Political Science

Philosophy

Psychology

Sociology

Urban Studies

Visual and Performing Arts

World Languages

WORCESTER S T A T E UNIVERSITY



Arabic Department of World Languages

Faculty

Mohamed Brahimi, Instructor (2009) B.A., M.A., Suffolk University

Ana Pérez-Manrique, Associate Professor, Department Chair (2006) B.A. Universidad de Málaga, Spain; M.A., University of South Carolina; Ph.D. Florida State University

Courses in Arabic are designed for students whose interests and career plans have an international or multi-ethnic focus. Students who study Arabic will develop listening, speaking, reading, and writing fluency at the beginning and intermediate levels. Arabic 101 and 102 also form part of the requirements for the Minor in Middle East Studies offered by the Department of History and Political Science.

Requirements for a Minor in Middle East Studies: 18 credits.

HI 261 Middle East History I.

HI 314 Twentieth Century Middle East History

AB 101 Arabic I AB 102 Arabic II

6 credits recommended by advisor

Arabic Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

AB 101 Beginning Arabic I

LASC-Thought, Language, and Culture

Introduction to the Arabic language and cultures of the Arabic-speaking world.

3 credits

AB 102 Beginning Arabic II

LASC-Thought, Language, and Culture

A continuation of AB 101, designed for students to acquire additional vocabulary, grammar, and reading ability. 3 credits

AB 191 Special Topics in Arabic

An introductory level course on current or specialized topics related to Arabic and/or Arab world.

AB 210 Intermediate Arabic I

LASC-Thought, Language, and Culture

Introduction in advanced rules of Arabic grammar and verb system, and in advanced writing and reading. 3 credits

AB 211 Intermediate Arabic II

LASC-Thought, Language, and Culture

Reading and discussion in English of texts dealing with literature, arts, geography, history, and culture of Arabic-speaking world.

3 credits

AB 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

Note: Courses in other foreign languages such as German, Chinese and French are offered when demand warrants and staffing permits.



Art

Department of Visual and Performing Arts

Requirements for a Major in Visual and Performing Arts, concentration in Art (See Visual and Performing Arts Department for a complete listing of requirements and courses)

Aligning itself with the evolving needs of the current arts world, Worcester State University offers its arts students a Major in Interdisciplinary Visual and Performing Arts, one of the few interdisciplinary arts majors in the country. With this major, students go beyond the regular art, music and theatre coursework to understand the larger world of Visual and Performing Arts. WSU's Visual and Performing Arts major allows students to gain an interdisciplinary view of the arts while also gaining an in-depth knowledge of their preferred art form.

Students who select a VPA Major also select a concentration in Art, Music or Theatre. Core courses promote critical thinking, and prepare students intellectually and creatively to complete their capstone/senior thesis projects and launch careers in the arts. Students apply their coursework to the production, performance, and critical study of creative work through a multitude of exhibit and performance opportunities.

Requirements for a Minor in Art

(See Visual and Performing Arts Department for a complete listing of requirements and courses)



Business Administration

Department of Business Administration and Economics

Faculty

Mary E. Clay, Assistant Professor (2012)

B.S., Fitchburg State University; M.B.A., Anna Maria College; D.B.A., Argosy University; CPA. Commonwealth of Massachusetts

Laurie A. Dahlin, Professor (2001)

B.S., Nichols College; M.B.A., Assumption College;

D.B.A., Nova Southeastern University; CMA, Institute of Management Accountants

Paul A. Dubrey Jr., Assistant Professor (2106)

B.S., Assumption College; M.B.A., Nichols College; CPA, Commonwealth of Massachusetts; CFE, Certified Fraud Examiner

Robert C. Fink, Professor (2002)

B.A., Coe College; M.B.A., University of Iowa; D.B.A., Boston University

Renuka Jain, Professor (1985)

M.Sc., Rajasthan University; Ph.D., McGill University

Tejendra N. Kalia, Associate Professor (2004)

B.E., Indian Institute of Technology; M.E., McGill University;

M.B.A., Anna Maria College; D.B.A., Nova Southeastern University

Wei Pang Lee, Professor (1992)

B.A., Soochow University, Taipei, Taiwan; M.B.A., Northwest Missouri State University; Ph.D., University of Georgia

Mark L. Love, Assistant Professor, Department Chair (2006)

B.S.B.A., M.B.A., Nichols College; CPA, Commonwealth of Massachusetts;

CFF. American Institute of Certified Public Accountants

Joan (Jay) Mahoney, Professor (2002)

B.S., North Adams State College; M.B.A., Western New England College;

Ph.D., State University of New York, Buffalo

Rodney Oudan, Professor (2005)

CIM, Chartered Institute of Marketing; PgCert, University of the West Indies, UWI; M.M., Cambridge College; D.B.A., Nova Southeastern University

Miriam L. Plavin-Masterman, Assistant Professor (2013)

B.S., Cornell University; M.B.A., Dartmouth College; M.A., Ph.D., Brown University

Elizabeth A. Siler, Associate Professor (2008)

B.A., Boston University; M.B.A., Simmons College;

Ph.D., University of Massachusetts, Amherst

Lingling Wang, Assistant Professor (2016)

B.A., Xi'an International University; M.B.A., Ecuador Military School of Technology; M.S., D.B.A., Southern New Hampshire University

Elizabeth J. Wark, Professor (2007)

B.A., Mount Holyoke College; M.B.A., University of Massachusetts; M.A.,

Ph.D., Clark University

The Business Administration program enables participants to acquire competencies necessary to manage the human, financial and technological resources of organizations. The major in Business Administration offers six concentrations: Management, Accounting, Finance, Marketing, International Business, and Entrepreneurial Studies and Small Business Management.

Admission Requirements: Application to the department after completion of the following prerequisite courses:

CS 120	Microcomputer Applications
EC 110	Introduction to Microeconomics
EC 120	Introduction to Macroeconomics
EN 253	Business Communications
MA 150 o	EC 150 Statistics

MA 202 or EC 202 Business Calculus/Introduction to Mathematical Economics

To be accepted to the major, a student must complete all prerequisite courses with a C (2.0) or better average.

Requirements for a Major in Business Administration: 48 credits in Business Administration, of which a minimum of 25 must be completed at Worcester State University. Common Business Core: 36 credits

Lower Division

BA 200	Principles of Management and Organizational Behavior
BA 210	Financial Accounting I
BA 220	Financial Accounting II
BA 230	Managerial Accounting or BA 374 Cost Accounting
BA 250	Analytical Techniques in Business
Upper Division	
D 1 20E	Organizational Pohavior

BA 305 Organizational Behavior
BA 312 Operations Management I
BA 316 Financial Management
BA 318 Principles of Marketing

BA 350 Business Information Systems and Applications

BA 320 Business Law I or BA 480 The Legal Environment of Business

BA 490 Business Strategy and Policy

BA Electives: Other Upper Division (300-level or above)

Business Administration courses: at least 12 credits

Note: A student may apply any two of the following EC courses towards the BA major as either part of the BA electives or as courses within either the Finance or International Business concentration or within the BA minor.

EC 205	Money, Banking and Monetary Policy (Finance Concentration)
EC 301	Economic Development (International Business Concentration)
EC 307	International Finance (Finance or International Business Concentration)
EC 308	International Trade (International Business Concentration)

Requirements for a Major in Business Administration, Concentration in Management:

The Common Business Core together with four elective courses in the field of management chosen with the assistance of the advisor from the list below:

BA 300	Organization Theory
BA 306	Human Resource Management
BA 327	Ethical Decision Making in Business
BA 380	Negotiations
BA 385	Leadership
BA 400	Management and Organizational Behavior I
BA 401	Management and Organizational Behavior II
BA 430	Administrative Practices and Management
BA 434	Management and Corporate Responsibility
BA 440	International Business and Management
BA 481	Independent Study in Business Administration
BA 482	Selected Topics in Business Administration
BA 486	Internship in Business Administration

Requirements for a Major in Business Administration, Concentration in Accounting:

The Common Business Core together with four additional courses in the field of accounting chosen with the assistance of the advisor. Typical courses include:

BA 370	Intermediate Accounting I
BA 371	Intermediate Accounting II
BA 375	Federal Income Taxes I
BA 376	Auditing

Requirements for a Major in Business Administration, Concentration in Marketing:

The Common Business Core together with four additional courses in the field of marketing chosen with the assistance of the advisor from the list that follows:

BA 406	Trends in Marketing
BA 420	Marketing Research
BA 422	Retailing
BA 424	Advertising Management
BA 426	Consumer Behavior
BA 428	Business to Business Marketing
BA 429	Integrated Marketing Communication
BA 486	Internship in Business Administration
BA 494	International Marketing

Requirement for Major in Business Administration, Concentration in International Business:

The common Business Core together with four elective courses in the field of International Business chosen with the assistance of the advisor from the list that follows. A maximum of two of the courses listed below may be used.

BA 351	Managing eBusiness
BA 440	International Business and Management (required)
BA 481	Independent Study in Business Administration
BA 482	Selected Topics in Business Administration
BA 486	Internship in Business Administration
BA 494	International Marketing
EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

Requirement for Major in Business Administration, Concentration in Finance:

The common Business Core together with four additional courses in the field of Finance chosen with the assistance of the advisor from the list that follows:

BA 404	Corporate Finance (required)
BA 355	Insurance and Risk Management
BA 414	Real Estate Investment
BA 415	Investment Analysis
BA 486	Internship in Business Administration (related to finance)
EC 205	Money, Banking and Monetary Policy
EC 307	International Finance

Requirements for a Major in Business Administration, Concentration in Entrepreneurial Studies and Small Business Management: The Common Business Core together with two required plus two additional courses in the field chosen with the assistance of the advisor from the list below:

Two required electives BA 302 Introduction to Entrepreneurship; and BA 402 Launching the Venture - The Business Plan

Note: In addition students may choose any two remaining courses for this concentration from the following:

Small Business Management
Women Entrepreneurs and Leaders
Managing eBusines
Marketing Research
Social Entrepreneurship

Or any courses in the field as approved by BA program chair/instructor/advisor.

Admission Requirements for a Minor in Business Administration: Application to the department after completion of the prerequisite courses. For acceptance to the minor, students must complete the three prerequisite courses with a C (2.0) or better average.

Requirements for a Minor: 27 credits as follows

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CS 120	Microcomputer Applications	
EC 150	Statistics/or MA 150 Statistics	;

EC 110 Introduction to Microeconomics/or EC 120 Introduction to

(9 credits)

Macroeconomics

Required courses (18 credits)

Prerequisite courses

BA 200	Principles of Management and Organizational Behavior

BA 210 Financial Accounting I

Plus Four (4) additional BA courses (may choose two of the following EC courses:

EC 205	Money, Banking and Monetary Policy
EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

4Plus1 Program

The Department of Business Administration and Economics offers a Four Plus One program that allows Business Administration majors with GPAs of 3.0* or higher to gain admission to the M.S. in management during their junior year (they may apply once they have completed 75 credits) and to a begin taking classes as a senior. In order to complete the joint degree, in the final year of their bachelor's work, students may take two graduate level courses (6 credits). Please see the note below regarding which graduate classes may also count within the undergraduate BA major degree requirements. These graduate credits may be included in the undergraduate tuition of full-time state supported students. Students should take at least one summer class between the Spring of their BS graduation and the Fall in which they embark on full-time graduate studies. Taking the graduate credits as an undergraduate and the summer class(es) may allow students to complete course requirements for the bachelor's and master's degree in five years (60 months). For more details, students should consult with the graduate coordinator of the M.S. Management Program.

Undergraduate Business Administration majors who are accepted into the 4Plus1 program may take the following graduate courses (6 credits maximum) and count them in both their BA undergraduate major and M.S in Management program. These courses will appear at the 500 level on their undergraduate transcripts and will be transferred at the 900 level for the M.S in Management program once they have completed their B.S. degrees. Students must have permission of the graduate instructor and the M.S. in Management graduate coordinator to take any graduate classes before they have finished their undergraduate degree program.

- BA 960 Leadership (may count in the BA electives or in the management concentration.)
- BA 962 Ethics and Social Responsibility of Leadership (may count in the BA electives or in the management concentration.)
- BA 915 Corporate Finance (this may be counted as a substitute for BA 404 in the BA electives or within the finance concentration.)
- BA 912 Marketing Management (this may count in the BA electives or within the marketing concentration.)

Sample Timeline for Completion of Degree: Business Administration (for All Students Entering in Fall 2012 or Later)

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I (WR)	3
BA 200	Principles of Management and Organizational Behavior	3
EC/MA 150	Statistics (QR*)	3
EC	Either EC 120 or EC 110 (HBS)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (WR)	3
EC	Either EC 120 or EC 110	3
CS 120	Microcomputer Applications in Business I (QR*)	3
LASC	Constitutions (CON)	3
LASC	DAC	3
	Semester Subtotal	15
Comments	*One QR must be a MA course	

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
EC/MA 202	Calculus	3-4
EN 253	Business Communications	3
BA 210	Financial Accounting I	3
LASC	The United States and Its Role in the World (USW)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	15-16

Semester Four			
Course No.	Course Name		Credits
BA 220	Financial Accounting II		3
BA 250	Analytical Techniques in Business		3
BA 318	Principles of Marketing		3
LASC	Natural Systems and Processes (NSP)		4
LASC Thought, Language and Culture (TLC)		3	
		Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
BA 305	Organization Dynamics	3
BA 230/BA 374	Managerial or Cost Accounting	3
BA 316	Financial Management (QRAC)	3
LASC	Natural Systems and Processes (NSP)	3-4
SELECT	General Elective	3
	Semester Subtotal	15-16

Semester Six		
Course No.	Course Name	Credits
BA 312	Operations Management I	3
BA 350	Business Info Systems	3
BA	Either BA 320 or BA 480	3
ВА	BA Concentration Elective	3
LASC	WAC	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
BA 490	Business Strategy and Policy	3
SELECT	General Elective	3
LASC	Creative Arts (CA)	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT General Elective		3
Semester Subtotal		15

Semester Eight		
Course No.	Course Name	Credits
BA	BA Concentration Elective	3
BA	BA Concentration Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT General Elective		3
	Semester Subtotal	15

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Business Administration Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

BA 100 Introduction to Business (only as a free elective)

Introduction to basic concepts related to business practices; includes examination of local, regional, and national organizations in the business world.

Offered every year. 3 credits.

BA 193 Special Topics in Business Administration for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar.

Offered every year. 3 credits.

BA 200 Principles of Management and Organizational Behavior

Study of management practices and behavior in organizational settings. Emphasis on introduction to managerial principles, concepts and fundamentals.

Offered every year. 3 credits.

BA 210 Financial Accounting I

Principles, concepts, procedures, and techniques of financial accounting necessary to preparation, understanding, and interpretation of accounting information.

Offered every year. 3 credits.

BA 220 Financial Accounting II

Prerequisite: BA 210

Continuation of topics covered in BA 210.

Offered every year. 3 credits.

BA 230 Managerial Accounting

Prerequisite: BA 220

Analysis, interpretation and use of accounting data for effective managerial planning, control and decision-making. Offered every year. 3 credits.

BA 250 Analytical Techniques in Business

Prerequisites: BA 200, BA 220, CS 120 or 121, MA 150 or EC 150

Identification and analysis of common business problems using proper quantitative techniques and standard

business software.

Offered every year. 3 credits.

BA 302 Introduction to Entrepreneurship

Prerequisite: Need to be min. of Junior level or by consent of Instructor/Chair

Students learn and explore the nature and challenges of entrepreneurship; venture the life cycle of opportunity-launch-growth-fruitage.

Offered every year. 3 credits.

BA 300 Organization Theory

Prerequisite: BA 200

A macro examination of organizations utilizing current research findings based largely upon a systems/contingency framework, designed to improve organizational effectiveness.

Offered every 2 years. 3 credits.

BA 303 Small Business Management

Prerequisite: Need to be min. of Junior level or by consent of Instructor/Chair

This course focuses on essential management skills relating to starting and managing a small business where one or a few individuals provide initial financing.

Offered every year. 3 credits.

BA 304 Women Entrepreneurs and Leaders

Prerequisite: Need to be min. of Junior level or by consent of Instructor/Chair

Students will focus on the research of women business leaders and the roles they have played in the global economy. Offered every year. 3 credits.

BA 305 Organizational Behavior

Prerequisite: BA 200

Study of organizational effectiveness and quality of working life, through individual, organizational, and contextual level theories and practices.

Offered every year. 3 credits.

BA 306 Human Resource Management

Prerequisite: BA 305

An examination of human resource management including employment laws, recruiting/selection, training/development, and benefits/compensation administration.

Offered every year. 3 credits.

BA 312 Operations Management I

Prerequisites: BA 200, CS 120, MA 150 or EC 150

Applied analysis of operations in service and production systems using quantitative models and calculus; inventory, work measurement, scheduling, quality control.

Offered every year. 3 credits.

BA 316 Financial Management

LASC-Quantitative Literacy Across the Curriculum

Prerequisite: BA 220

Financial analysis, working capital management and basics of capital budgeting.

Offered every year. 3 credits.

BA 318 Principles of Marketing

Prerequisite: BA 200, EC110, and EC 120

Overview of the full range of activities involved in marketing, develops an understanding of marketing strategy and

processes

Offered every year. 3 credits.

BA 320 Business Law I

Prerequisite: BA 200

Introduction to legal concepts as applied to the study of contracts, personal property, sales, and the Uniform

Commercial Code.

Offered every year. 3 credits.

BA 321 Business Law II

Prerequisite: BA 320

Continuation of topics covered in BA 320. Study of laws of partnerships and corporations.

Offered every 3 years. 3 credits.

BA 327 Ethical Decision Making in Business

Prerequisites: BA 200, BA 210, BA 318

This course will identify, discuss and analyze ethical issues faced by business professionals and discuss approaches for resolving ethical dilemmas.

Offered every year. 3 credits.

BA 350 Business Information Systems and Applications

Prerequisite: BA 230 or BA 374, CS 120

Survey of automated business information systems and microcomputer applications with emphasis on business

oriented software.

Offered every year. 3 credits.

BA 355 Insurance and Risk Management

Prerequisite: BA 200

This survey course covers the identification and evaluation of risk, and techniques for the management of risk. Commercial and personal risks are studied from the points of view of the corporation, the individual, and the insurer. Areas of emphasis include commercial property, business liability, worker's compensation, automobile, life, health, disability, and income insurance.

Offered every year. 3 credits.

BA 362 Accounting for Non-Profit Organizations

Prerequisite: BA 371

Specialized area of accounting for unique requirements for non-profit organizations; includes analysis of budgeting, financial statements and other unique accounting requirements needed by management to assess the controls of a non-profit entity.

Offered every 2 years. 3 credits.

BA 351 Managing eBusiness

Prerequisites: IT Minor: Core IT Courses . BA Major: Core BA Courses

Digitizing new forms of business organizations to create business-to-business partnerships, business-to-consumer relationships, pathways-to-profitability; Legal, Ethical, Social, Political and Global Issues.

Offered every year. 3 credits.

BA 370 Intermediate Accounting I

Prerequisites: BA 210, BA 220

Accounting theory, principles, concepts, and procedures applied to balance sheet and income statement accounts. Presentation and interpretation of financial reports.

Offered every year. 3 credits.

BA 371 Intermediate Accounting II

Prerequisite: BA 370
Continuation of BA 370.
Offered every year. 3 credits.

BA 372 Advanced Accounting I

Prerequisite: BA 370

Examines specialized topics in accounting including business combinations, partnerships, foreign currency transactions and translation, IFRS, nonprofit and governmental accounting.

Offered every year. 3 credits.

BA 374 Cost Accounting

Prerequisites: BA 200, BA 210, BA 220

Accounting for costs in business enterprises. Emphasis placed on fundamental principles including job order, process, and standard costs.

Offered every year. 3 credits.

BA 375 Federal Income Taxes I

Prerequisite: BA 370

A study of federal income taxation as applied to individuals.

Offered every year. 3 credits.

BA 376 Auditing

Prerequisite: BA 370

Basic auditing concepts and developments and their application to the examination, evaluation and reporting of

financial data.

Offered every year. 3 credits.

BA 377 Federal Income Taxes II

Prerequisite: BA 375

Federal income taxes for corporations and partnerships.

Offered every 2 years. 3 credits.

BA 380 Negotiations

Prerequisites: BA 200, BA 210, BA 220, BA 305, EC 110, EC 120

This course focuses on effective negotiations, conflict management, and power and influence in organizational and other settings.

Offered every year. 3 credits.

BA 385 Leadership

Prerequisites: BA 200, BA 305

This course focuses on leadership theories, skills and applications. Self-assessment and reflection are important learning components of the course.

Offered every year. 3 credits.

BA 390 Business and Social Research Methods

LASC - WAC

Prerequisites: BA 200, EN 102, permission of instructor for non majors

An overview of research design approaches and the basic techniques of data collection employed by social

scientists conducting empirical research.

Offered every year. 3 credits.

BA 400 Management and Organizational Behavior I

Prerequisite: BA 305

Study of concepts, theory, research, and operational problems of organizational behavior; work groups and intergroup behavior models.

Offered every 3 years. 3 credits.

BA 401 Management and Organizational Behavior II

Prerequisite: BA 400

Continuation of topics covered in BA 400 with additional theory and case studies; behavioral science/systems

approach is taken

Offered every 3 years. 3 credits.

BA 402 Launching the Venture - The Business Plan

Prerequisite: BA 302 or the consent of instructor/chair

Learn and practice the analytics of building a business model, plan for a venture, explore the strategies, and launch

the venture.

Offered every year. 3 credits.

BA 404 Corporate Finance

Prerequisite: BA 316

Advanced capital budgeting, capital structure, long-term financing decisions, dividend policy, computer modeling,

comprehensive financial strategy cases.

Offered every 2 years. 3 credits.

BA 406 Trends in Marketing

Prerequisite: BA 318

Integrates all aspects of marketing theory through readings, case studies, class projects, individual projects, and

computer simulation of marketing decisions.

Offered every 2 years. 3 credits.

BA 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

BA 414 Real Estate Investment

Prerequisite: BA 316

This course covers the fundamental concepts, principles, analytical methods, and tools used in making residential

and commercial Real Estates investment decisions.

Offered every year. 3 credits.

BA 415 Investment Analysis

Prerequisite: BA 316

Survey of investment vehicles, including stocks, bonds, real estate, commodities, mutual funds, and collectibles.

Modern portfolio and valuation theories.

Offered every year. 3 credits.

BA 420 Marketing Research

Prerequisite: BA 318

Nature and scope of marketing research. Application of scientific methods, sources, problem definition, and collection of data, reporting and evaluation.

Offered every year. 3 credits.

BA 422 Retailing

Prerequisite: BA 318

Demand analysis, consumer behavior, and planning and control of the merchandising functions; retailing as

a career.

Offered every 3 years. 3 credits.

BA 424 Advertising Management

Prerequisite: BA 318

Advertising from a planning perspective. Advertising and professional promotion strategies with execution and

control activities.

Offered every 3 years. 3 credits.

BA 426 Consumer Behavior

Prerequisite: BA 318

The analysis of the consumer decision process as it affects marketing management decisions. Major factors of influence in this process will be studied including outling as it affects marketing management decisions. Major factors of

influence in this process will be studied including culture, social class, family, and reference groups.

Offered every 3 years. 3 credits.

BA 428 Business to Business Marketing

Prerequisite: BA 318

Explores business markets which account for more than half the economic activity globally.

Offered every 3 years. 3 credits.

BA 429 Integrated Marketing Communications

Prerequisite: BA 318

This course is designed for students who have an interest in increasing their knowledge of the marketing

promotional process.

Offered every 3 years. 3 credits.

BA 430 Administrative Practices and Management

Prerequisite: BA 305

Overview and analysis of human conduct in work-organization settings.

Offered every 3 years. 3 credits.

BA 434 Management and Corporate Responsibility

Prerequisite: BA 200

The theoretical and practical relationships of corporate conflicts of interests, self-regulation, product liability, employee rights, etc. to management decisions.

Offered every year. 3 credits.

BA 440 International Business and Management

Prerequisites: BA 316, BA 318

Study and analyze the nature, structures and strategies of international/global businesses. Examine international markets, economic systems, value-chains and core competencies of a firm.

Offered every 2 years. 3 credits.

BA 474 Corporate Law

Prerequisite: BA 320

Corporate powers and corporate management. Designed for future corporate executives and accountants.

Offered every 3 years. 3 credits.

BA 480 The Legal Environment of Business

Prerequisite: BA 200

The impact of governmental regulation on business and its response will be evaluated by unique debate-type format.

Offered every year. 3 credits.

BA 481 Independent Study in Business Administration

Prerequisite: BA 200

Independent study in business administration, usually involving field work which is not an internship.

Offered every year. 1-6 credits.

BA 482 Selected Topics in Business Administration

Prerequisites: BA 305, BA 316, BA 318

Selection of topics of mutual interest to the student and faculty.

Offered every year. 1-6 credits.

BA 486 Internship in Business Administration

Prerequisites: BA 305, BA 316, BA 318

Practical experience in operations of business. Internships within co-operative firms with on-site supervision and evaluation.

Offered every year. 1-12 credits.

BA 490 Business Strategy and Policy

LASC - Major Capstone

Prerequisites: BA 316, BA 318

Capstone course integrating information provided in the functional areas such as finance, marketing, general

management, business legal environment.

Offered every year. 3 credits.

BA 494 International Marketing

Prerequisites: EC 120, BA 318

With the rapid and continuous changes in a global environment we will examine the complex issues in international

marketing faced by today's manager.

Offered every year. 3 credits.

WORCESTER S T A T E UNIVERSITY



Faculty

Julian Berrian, Assistant Professor (2006)

B.A., University of Maryland; M.F.A., Temple University

Donald F. Bullens, Associate Professor (1986)

B.S. Ed., M.Ed., Worcester State College

Alta Carroll, Professor (1998)

B.A., Texas A & M University; M.S., Columbia University; Ph.D., Purdue University

Carlos Fontes, Professor (1996)

B.A., Escola Superior de Meios de Communicacao Social, Lisbon;

M.A., Ph.D., University of Massachusetts

Julie D. Frechette, Professor, Department Chair (1999)

B.A., University of New Hampshire; M.A., Ph.D., University of Massachusetts

Suzanne Gainer, Professor (2001)

B.A., St. Vincent College; M.F.A., Rhode Island School of Design

Daniel S. Hunt, Assistant Professor (2013)

B.A., University of Rhode Island; M.S., Boston University College of Communication;

Ph.D., University of Connecticut

Emanuel E. Nneji, Associate Professor (2005)

B.A., University of Nigeria; M.S., University of Lagos; Ph.D., University of South Carolina

Barbara Zang, Professor (2002)

B.S., University of Missouri; M.A., University of Toledo; M.A., University of Missouri;

Ph.D., Indiana University

The Department of Communication at Worcester State University promotes the critical understanding of communication in a culturally diverse and technological world. Grounded on methods of inquiry, the program engages students in the theory and practice of mass communications and intercultural communication. The department's goal is to educate students to assess the role of communication in society, and to be proficient communicators and competent users of current technologies. Representing diverse areas of expertise, the faculty emphasizes contemporary issues and media ethics from a global perspective.

Courses focused on media literacy, criticism, production and special topics, prepare students for careers in the field and for further study at the graduate level. Facilities include computer labs, a state-of-the-art television studio, editing suites, electronic field production video equipment and photographic dark rooms.

In addition to course work, students in their junior and senior year who have a GPA of 2.7 or higher are encouraged to apply for media internships with companies and nonprofit

organizations that have a long-standing relationship with the Department. Majors have the opportunity to become members of WSTS-TV 11 and WSCW radio station. The Department sponsors internships and photographic exhibits; in addition, many WSU students participate in off-campus communication-related competitions and activities.

Requirements for a Major in Communication 36 credits for the Media Theory and Public Communication concentrations and 39 credits for the concentration in Media Production.

Core Courses	
CM 100	Introduction to Mass Communication
CM 105	Media Writing or
CM 200	Writing for Communication
CM 110	Public Speaking
CM 363	Visual Media Literacy
CM 384	Media Criticism
CM 450	Senior Communication Capstone

One of the Following Courses

CM/WO 213 Gender and Media

CM/WO 350 Intercultural Communication CM/WO 390 Alternative Communication

Elective Courses: 18 credits in Communication

Sample Timetable for Completion of Degree Communication, Generalist

YEAR ONE

Semester One			
Course No.	Course Name	Credits	
LASC	First-Year Seminar	3	
EN 101	English Composition I	3	
CM 100	Introduction to Mass Communications	3	
LASC	Quantitative Reasoning (QR)	3	
LASC	Global Perspectives (GP)	3	
	Semester Subtotal	15	

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
CM 110	Public Speaking	3
LASC	The United States and Its Role in the World (USW)	3
LASC	Thought, Language, and Culture (TLC)	3
	Semester Subtotal	15
Comments		

321

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CM 105	Media Writing	3
CM	Major Elective	3
LASC	Natural Systems and Processes (NSP)	4
LASC	Thought, Language, and Culture (TLC)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
CM 213	Gender and Media	3
CM	Major Elective	3
LASC	Natural Systems and Processes (NSP)	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five)	
Course No.	Course Name	Credits
CM 363	Visual Media Literacy	3
CM	Major Elective	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Creative Arts (CA)	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
CM 384	Media Criticism	3
CM	Major Elective	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven			
Course No.	Course Name	Credits	
CM 435	Media Internship	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	

Semester Eight		
Course No.	Course Name	Credits
LASC/CM	Capstone	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		1

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for the Concentration in Media Production. In addition to the six core courses, students will have to complete the following:

TRACK A: Print Media

Required Courses for this Track

CM 150	Photography I <u>or</u>
CM 151	Introduction to Digital Photography
CM 160	Digital Imaging
CM 231	Photography II
CM 244	Graphic Design

Elective Courses: 9 credits in Communication

Sample Timetable for Completion of Degree Communication/ Concentration Media Production A: Print Media

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
CM 100	Introduction to Mass Communications	3
LASC	Thought, Language, and Culture (TLC)	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15

Semester Two			
Course No.	Course Name		Credits
EN 102	English Composition II		3
LASC	Constitutions		3
CM 150 OR CM 200	Photography I Writing for CM		3
LASC	Quantitative Reasoning (QR)		3
LASC	Individual and Community Well-Being (ICW)		3
	Sen	nester Subtotal	15
Comments			

YEAR TWO

Semester Three			
Course No.	Course Name		Credits
CM 110	Public Speaking		3
CM 150 or CM 151	Photography I Introduction to Digital Photography		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Creative Arts (CA)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
CM 231	Photography II	3
CM 363	Visual Media Literacy	3
LASC	Thought, Language, and Culture(TLC)	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	15

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CM 160	Introduction to Digital Imaging	3
CM 213 or CM 350 or CM 390	Gender and Media Intercultural Communication Alternative Communication	3
LASC	Natural Systems and Processes (NSP)	3
LASC	Creative Arts (CA)	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
CM 244	Graphic Design	3
CM 384	Media Criticism	3
LASC	Global Perspectives (GP)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
LASC/CM	Capstone	3
СМ	Elective or Internship	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eig	ht	
Course No.	Course Name	Credits
CM	Elective or Internship	3
CM	Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

TRACK B: Broadcast Media

Required Courses for this Track

CM 259 Television Production I CM 260 Introduction to Video CM 366 Scriptwriting

CM 366 Scriptwriting CM 396 Video Editing

Elective Courses: 9 credits in Communication

Suggested Timetable for Completion of Degree Communication/ Concentration In Broadcast Media

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
CM 100	Introduction to Mass Communication	3
CM 110	Public Speaking	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
CM 105	Media Writing	3
CM 241*	Understanding Movies*	3
LASC	Quantitative Reasoning (QR)	3
	Semester Subtotal	15
Comments	* Recommended Electives	

YEAR TWO

Semester Thre	Semester Three		
Course No.	Course Name		Credits
CM 259 or CM 260	TV Production I Introduction to Video		3
CM 363	Visual Media Literacy		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Global Perspective (GP)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	16

Communication

Semester Fou	r	
Course No.	Course Name	Credits
CM 259 or CM 260	TV Production I Introduction to Video	3
CM 366	Scriptwriting	3
LASC	Thought, Language, and Culture (TLC)	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CM 384	Media Criticism	3
CM 396	Video Editing	3
LASC	Natural Systems and Processes (NSP)	3
LASC	Thought, Language, and Culture (TLC)	3
LASC	Global Perspective (GP)	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
CM 359*	Documentary Production*	3
CM 435*	Media Internship*	3
LASC	Creative Arts (CA)	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments	* Recommended Electives	

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
CM 360	TV Production II	3
CM 213 or CM 350 or CM 390	Gender and Media Intercultural Communication Alternative Communication	3
LASC/CM	Capstone	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight			
Course No.	Course Name	Credits	
CM 404*	Independent Study in Media*	3	
CM	Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	
Comments	* Recommended Electives		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for the **Concentration in Advertising and Public Relations**. In addition to the six core courses, students will have to complete the following:

Required Courses for Concentration (4 courses)

CM 180	Introduction to Advertising
CM 240	Public Relations Principles and Practices
CM 340	Public Relations Strategy <u>or</u>
CM 370	Advertising Production
CM 400	Public Relations Research or
CM 405	Mass Communication Research

Elective Courses: 6 credits in Communication

Sample Timetable for Completion of Degree Communication/ Concentration in Advertising and Public Relations

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
CM 100	Introduction to Mass Communications	3
CM 110	Public Speaking	3
LASC	Quantitative Reasoning (QR)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
CM 105 or CM 200	Media Writing Writing for Communication	3
LASC	Thought, Language, and Culture (TLC)	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15
Comments		

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CM 180*	Introduction to Advertising*	3
CM 240*	Principles of Public Relations*	3
LASC	Natural Systems and Processes (NSP)	4
LASC	Thought, Language, and Culture (TLC)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	16

Semester Four			
Course No.	Course Name		Credits
CM 213 or CM 350 or CM 390	Gender and Media Intercultural Communication Alternative Communication		3
СМ	Major Elective		3
LASC	Natural Systems and Processes (NSP)		3
LASC	Creative Arts (CA)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	15
Comments	* Taught each Fall semester		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CM 363	Visual Media Literacy	3
CM 384	Media Criticism	3
LASC	Global Perspectives (GP)	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Creative Arts (CA)	3
	Semester Subtota	I 15

Semester Six		
Course No.	Course Name	Credits
CM 340**	Public Relations Strategy**	3
CM 370**	Advertising Production**	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments	** Taught each Spring semester	

YEAR FOUR

Semester Seven			
Course No.	Course Name	Credits	
CM 363	Visual Literacy	3	
CM 384	Media Criticism	3	
CM 400***	Public Relations Research***	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	

Semester Eight			
Course No.	Course Name	Credits	
CM 400*** or CM 405	Public Relations Research*** Mass Communication Research/Capstone	3	
СМ	Journalism Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	
Comments	*** Taught every third semester		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Minor in Communication 18 credits including

CM 100 Introduction to Mass Communication

CM 110 Public Speaking

Plus any 4 electives in Communication

Requirements for a Minor in Communication Education 18 credits including

CM 100 Introduction to Mass Communication

CM 110 Public Speaking

CM/WO 350 Intercultural Communication

CM 384 Media Criticism <u>or</u>
CM 363 Visual Media Literacy
Plus any 2 electives in Communication

Worcester State University/Clark University COPACE BS/MSPC Degree Program

Through a COPACE cooperative program between Worcester State University and Clark University, qualified Communication Majors and Minors during their senior year can work towards a Master of Science in Professional Communication, while concurrently completing their Baccalaureate degree.

Communication Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

CM 100 Introduction to Mass Communication

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

An integrated examination of the history, theory, structure, process, and effects of each of the mass media. Offered every year. 3 credits.

CM 101 Library Skills for Research

The course covers the basics of library research: search strategies and how to use both print and automated research tools.

Offered every 3 years. 1 credit.

CM 103 Survey of Radio and Television

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

Perspectives on the development of radio and television technologies, programming, regulation, and economic support, and their impact.

Offered every 2 years. 3 credits.

CM 105 Media Writing

Prerequisite: CM 100

An introduction to various types of mass media writing, from print and broadcast to public relations, advertising and online media.

Offered every year. 3 credits.

CM 106 Communication and the Internet

LASC-Thought, Language, and Culture

Focuses on the social and educational implications of the Internet and the application of its various search tools as a means to communication.

Offered every 2 years. 3 credits.

CM/EN 107 Journalism and Democracy

This course introduces students to the history of American journalism and the role of journalism in democratic and non-democratic societies.

Offered every year. 3 credits.

CM 108/AR 105 Introduction to Animation

This hands-on introductory-level course covers the fundamentals of aesthetics of computer animation.

Offered every semester. 3 credits.

CM 110 Public Speaking

LASC-Thought, Language, and Culture

Essentials of speech production and speech writing for large and small groups. Classroom practice in delivering various types of speeches.

Offered every year. 3 credits.

CM 150 Photography I

LASC-Creative Arts

Covers the basic theory and practice of 35mm B/W photography, including camera handling, film processing, light meters, printing and picture content.

Offered every year. 3 credits.

CM 151 Introduction to Digital Photography

LASC-Creative Arts

Techniques and aesthetics of digital photography. Introduction to the operation of SLR digital cameras and the computer as digital darkroom.

Offered every year. 3 credits.

CM 152 Eco-toursim & Photography in Costa Rica

LASC-Global Perspectives; Creative Arts

A multi-level, interdisciplinary photography course with travel to Costa Rica. This course covers basic digital photo techniques and the practices of sustainable ecotourism. Additional fees apply.

Offered every year. 3 credits.

CM 160 Digital Imaging I

This course introduces students to the procedures, techniques and concepts of basic digital imaging. In the course students learn to use the computer as a tool for visual image making.

Offered every year. 3 credits.

CM 180 Introduction to Advertising

LASC-Human Behavior and Social Processes

An overview of the advertising including the historical and current roles of advertising in our economy, basic advertising concepts and methods, and social and cultural effects.

Offered every 2 years. 3 credits.

CM 191 Special Topics in Communication

An introductory level course in communications on current or specialized topics. Offered every year. 3 credits.

CM 193 Special Topics in Communication for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

CM 199 Interpersonal Communication in Media

Study of the communications process as it relates to the production of material in various media, including video, audio, film.

Offered every 2 years. 3 credits.

CM 200 Writing for Communication

LASC-Writing Across the Curriculum

Prerequisite: EN 102

Development of writing, research, and critical thinking skills associated with the discipline of communication. Assignments focus on contemporary communication issues.

Offered every year. 3 credits.

CM 204 Analysis of News

This course introduces students to the conventions, ethical issues and the economic, political and socio-cultural forces that affect mainstream and alternative journalism today

Offered every 2 years. 3 credits.

CM 205 Reporting for Media

This course refines interviewing skills and enables students to develop evidence from documentary sources to create stories for converging media.

Offered every year. 3 credits.

CM 206 Digital Storytelling

Prerequisite: CM 100

Use of personal narrative to construct stories using audio, still and video images, and music tracks in digital format. Offered every year. 3 credits.

CM 210 Special Topics in Communication

This is a mid-level communication course focused on current specialized topics not covered by the department's curriculum

Offered every 2 years. 3 credits.

CM/WO 213 Gender and Media

LASC—Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisite: CM 100. EN 102

This course will explore how difference is socially constructed along gender lines and will explore the intersections of gender, identity, power and media representation.

Offered every 2 years. 3 credits

CM 231 Photography II

Prerequisite: CM 150 or CM 151

Expands basic skills in camera craft, film and print processing and presentation. Instruction and practice in the Zone System, theory and practice of advanced exposure and film development control. Emphasis on photographic composition and efficiency in designing purposeful photographic statements.

Offered every year. 3 credits.

CM 240 Principles of Public Relations

LASC-Human Behavior and Social Processes

Prerequisite: CM 100

An overview of public relations principles in business, politics and society.

Offered every 2 years. 3 credits.

CM 241 Understanding Movies

LASC-Creative Arts; Thought, Language, and Culture

An introduction to the aesthetics and critical theories of film as an artistic medium of communication through critical observation of classic and contemporary movies.

Offered every year. 3 credits.

CM 242 Understanding Video Games

LASC-Creative Arts; Thought, Language, and Culture

An introduction to the interdisciplinary study of videogames as texts through the examination of their cultural, educational, and social functions in contemporary settings.

Offered every year. 3 credits.

CM 244 Graphic Design

Through hands-on projects, students will learn formal elements of design, principles of typography, idea generation, and issues of responsible design as applied to print media.

Offered every year. 3 credits.

CM/MU 250 Music of the Cinema: Spectacle, Splendor, and Spielberg

An introduction to the role, impact, and importance of music in motion pictures from silent movies through contemporary film.

Offered every 2 years. 3 credits.

CM 259 Television Production I

LASC-Creative Arts

Basics of studio production including visualization and sequencing of short scripts, sound, graphics, lighting, and technical direction.

Offered every year. 3 credits.

CM 260 Introduction to Video

I ASC - Creative Arts

A beginning course in video program production, using lightweight and portable equipment.

Offered every year. 3 credits.

CM/EN 268 Journalism: Feature Writing

Prerequisite: EN 102

Provides advanced training in finding, researching, developing, and writing feature stories for newspapers and magazines. Offered every 3 years. 3 credits.

CM 271 Media and Globalization

This course examines the emergence of global media and its impact on the development of a global world. Offered every 2 years. 3 credits.

CM/EN 270 Journalism: Editing

Prerequisite: EN 102

Training in copy selection, copy editing, story placement, headline writing, layout, and use of style books.

Offered every 3 years. 3 credits.

CM/EN 272 News Reporting and Writing I

Prerequisites: EN 102 & EN 107

Includes fundamentals of news judgment, events coverage, sourcing, interviewing, writing on deadline, fact checking and basic editing.

Offered every year. 3 credits.

CM/AR 285 History of Photography

LASC-Creative Arts; Thoughts, Language and Culture

The history of photography from 1839 to present, with attention to styles, aesthetics, technical processes, and leading practitioners.

Offered every 2 year. 3 credits.

CM 301 Communication Theory

Prerequisite: CM 100

Examines the nature and origins of symbol systems, the make up of audiences, the effects of mass media, and concomitant research.

Offered every 3 years. 3 credits.

CM 305 Media for Non-profits

Prerequisites: CM 100, CM 105

This course covers the writing, research, planning and problem solving necessary to provide media service for a non-profit client.

Offered every 2 years. 3 credits.

CM 315 Social Media

LASC-Creative Arts; Thought, Language, and Culture

Prerequisite: CM 100

This course explores the historical and societal influences on the development of social media through conceptual and practical applications.

Offered every year. 3 credits.

CM 340 Public Relations Strategy

Prerequisite: CM 240

Case study approach to public relations practices, problems, opportunities, and application to practical situations Offered every 2 years. 3 credits.

CM 344 Graphic Design II

Prerequisite: CM 244 Graphic Design I

The course builds upon the foundations of design covered in Graphic Design I, with emphasis on critical thinking, visual problem solving and the use of text and image.

Offered every year. 3 credits.

CM 345 Media and Democracy

Prerequisite: CM 100

This course aims to develop an understanding of democracy's requirements and the role of the media in relation to democracy.

Offered every 2 years. 3 credits.

CM/WO 350 Intercultural Communication

Prerequisite: CM 100

Introductory communication theory and practice across cultural groups defined by race, ethnicity, gender, religion, age, nationality, politics and economics.

Offered every 2 years. 3 credits.

CM/EN 351 News Reporting and Writing II

Prerequisite: EN 272

Focuses on using documentary evidence in reporting. Students select a reporting specialty area such as sports, business or higher education.

Offered every 2 years. 3 credits.

CM/EN 352 Practicum in Journalism

Prerequisite: EN 270 & EN 272

Workshop in which students report, write, and edit the online college news magazine. Participate in all aspects of publication.

Offered every semester 3 credits.

CM/EN 353 Narrative Journalism

Prerequisite: EN 272

Students analyze and create in-depth journalistic features and nonfiction stories that blend reporting with techniques of fictional storytelling.

Offered every 2 years. 3 credits.

CM/EN 354 Opinion Writing

Prerequisite: EN 272

Students analyze and practice writing op-eds and other opinion pieces. Learn to write commentary that is publication

Offered every 2 years. 3 credits.

CM 359 Documentary Production

Prerequisite: CM 260

This course engages students in a semester-long production of documentary and introduces key concepts of documentary theory.

Offered every 2 years. 3 credits.

CM 360 Television Production II

LASC-Creative Arts

Prerequisites: CM 259 or CM 260

The student will gain experience in the areas of electronic videotape editing, technology of television engineering, creative video, remote production and other advanced techniques. Primary emphasis is on the production of programs utilizing advanced techniques.

Offered every year. 3 credits.

CM 363 Visual Media Literacy

Prerequisite: CM 100

An introduction to principles of visual media literacy and their application in media production and perception. Offered every year. 3 credits.

CM 366 Scriptwriting

Prerequisite: CM 100

Creating scripted material for the electronic media. All types, styles, and formats will be covered.

Offered every 2 years. 3 credits.

CM 370 Advertising Production

Prerequisite: CM 100, CM 180

Applied skills in advertising including the creation of advertisements in different media, advertising strategies, media

schedules and campaign plans. Offered every 2 years. 3 credits.

CM 384 Media Criticism

LASC - Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum;

Writing Across the Curriculum Prerequisite: CM 100, EN 102

Evaluation and analysis of film, television, theatre, and radio performances, development of intelligent, ethical

standards of judgment.

Offered every year. 3 credits.

CM/WO 390 Alternative Communication

Prerequisite: CM103

This course introduces students to the theory and practice of alternative communication and its relationship with

culture and politics.

Offered every 3 years. 3 credits.

CM 396 Video Editing

LASC-Creative Arts

Prerequisite: CM 259 or CM 260

The principles and procedures of editing video using computer-based, non-linear editing techniques and equipment.

Students will produce short edited programs.

Offered every 2 years. 3 credits.

CM 400 Public Relations Research

LASC-Human Behavior and Social Processes

Prerequisite: CM 240

Study of public relations research concepts, and application for planning, communication and evaluation.

Offered every 2 years. 3 credits.

CM 404 Independent Study in Media

Prerequisite: CM 100

Permits advanced students to investigate topic of special interest through research or production of a project. Periodic

consultations with advisor.

Offered every 2 years. 1-6 credits.

CM 405 Mass Communication Research

LASC-Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

Survey of methods and applications of research in media fields, including advertising, public relations, journalism, new media and political communication.

Offered every year. 3 credits.

CM 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

CM 410 Seminar: Topics in Communication

This course engages students in advanced examination of emerging communication topics and of topics in a faculty's area of expertise.

Offered every 2 years. 3 credits.

CM/EN 416 Media Law and Ethics

Prerequisite: EN 272

An overview of the U. S. legal and justice systems and an examination of ethical issues in mass media. Offered every 2 years. 3 credits.

CM 435 Media Internship

Prerequisite: Two relevant communications courses and consent of department provides opportunity to advanced students to increase experience through internship with sponsoring community organization, institution, or business under appropriate supervision.

Offered every year. 3-12 credits.

CM 450 Senior Communication Capstone

Prerequisite: CM 100, CM 110, CM 105 or CM 200, CM 363 or CM 384

Course allows students to reflect upon and document culminating experiences while nearing the end of their major

coursework.

Offered every year. 3 credits.

WORCESTER S T A T E UNIVERSITY



Criminal Justice Department of Criminal Justice

Faculty

Tina R. Adams, Assistant Professor (2013)

B.A., College of the Holy Cross; M.A., Ph.D., California School of Professional Psychology

Robert A. Brooks, Associate Professor (2004)

B.M., Wayne State University; M.A., Antioch University, Los Angeles; J.D., University of Detroit Law School; Ph.D., American University

Aimée Delaney, Assistant Professor (2013)

B.A., M.A., C.A.G.S. (Domestic Violence), University of Massachusetts, Lowell; Ph.D., University of New Hampshire

Francis G. Olive III, Ph.D., M.C.S.W. (2016)

B.S., Our Lady of the Elms College; M.C.S.W., Fordham University; Ph.D., University of New Haven

Hye-Sun Kim, Assistant Professor (2010)

B.A., Dongguk University, South Korea; M.A., Ewha Women's University, South Korea; M.A., John Jay College of Criminal Justice; Ph.D., Indiana University of Pennsylvania

Penny Martin, Associate Professor (2003)

B.S., Weber State College, Utah; M.A., Humboldt State University;

Ph.D., University of Miami

Stephen A. Morreale, Associate Professor (2007), Department Chair

B.S., University of Massachusetts, Boston; M.P.A., Golden Gate University;

D.P.A., Nova Southeastern University

James M. Silver, Ph.D., J.D. (2016)

B.A., Notre Dame University; J.D., Harvard University; Ph.D., University of Massachusetts, Lowell

John R. Tahiliani, Associate Professor (2008)

B.A., King's College; M.A., Ph.D., Washington State University

The Bachelor of Science degree in Criminal Justice is a 120 credit-hour program. It is an interdisciplinary major, predicated on a common core of the humanities, social sciences, mathematics, and physical sciences. The goal of the program is to develop in students an increased analytical awareness of the role of law enforcement agencies, courts, and correctional institutions in the criminal justice system. The curriculum includes course work to provide students with awareness of recent advances in human dynamics, civil rights legislation and information technology.

The course of study consists of an extensive overview of the criminal justice system and an intensive examination of each of the major components of the system. The program is designed to serve students who may elect to enter the criminal justice profession immediately upon graduation, students of the liberal arts without professional interest in criminal justice, and

Criminal Justice

students who desire to pursue graduate work. Criminal Justice majors are able to apply for an internship in a criminal justice related organization during their junior year.

To request an application form, please call the Admissions Office at 508-929-8040.

Requirements for a Major: 39 credits in criminal justice, of which 21 must be completed at Worcester State University.

Major Core: 21 credits

CJ 101 Introduction to Criminal Justice
CJ 102 Introduction to Corrections
CJ 111 Law Enforcement and Society
CJ 203 Theories of Crime

CJ 205 American Judicial System
CJ 331 Research Methods in Criminal Justice

CJ 400 Criminal Justice Capstone

Criminal Justice Electives: 18 credits

Sample Timeline for Completion of Degree: Criminal Justice

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
CJ 101	Introduction to Criminal Justice	3
MA	MA 099 or higher based on Accuplacer score	3
LASC	Constitutions	3
	Semester Subtot	al 15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Thought, Language, and Culture (TLC)	3
CJ 102	Introduction to Corrections	3
CJ 111	Law Enforcement and Society	3
LASC	Quantitative Reasoning (QR)	3
	Semester Subtotal	15
Comments		

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
CJ 203	Theories of Crime	3
CJ 205	American Judicial System	3
LASC	Global Perspective (GP)	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15

Semester Four			
Course No.	Course Name		Credits
CJ	Elective Course in Major		3
CJ	Elective Course in Major		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Creative Arts (CA)		3
LASC	Individual and Community Well-Being (ICW)		3
		Semester Subtotal	16

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
CJ	Elective Course in Major	3
CJ	Elective Course in Major	3
LASC	Natural Systems and Processes (NSP)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
CJ 331	Criminal Justice Research Methods	3
CJ	Elective Course in Major	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
LASC/CJ 400	Capstone	3
CJ	Elective Course in Major	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
CJ	Elective Course in Major	3
SELECT	General Elective	3
	Semester Subtotal	15

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Minor: 7 courses comprising 4 core courses and three electives.

Core Courses:

CJ 101 Introduction to Criminal Justice Introduction to Corrections CJ 102 CJ 111 Law Enforcement and Society CJ 205 American Judicial System

Plus

Criminal Justice Electives: 3 courses

Students will need to obtain a Declaration of Major/Minor from the Registrar's Office and obtain signature of CJ Department Chair. Students seeking entry into the CJ minor must obtain the signature of the CJ Department Chair.

Criminal Justice Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

CJ 101 Introduction to Criminal Justice

A survey of the American Criminal Justice System as a sociopolitical institution. The police, criminal courts, and correctional and rehabilitative endeavors will be analyzed within the framework of empirical research from the perspectives of the social sciences. Required of all first-year students in the Criminal Justice major. Offered every year. 3 Credits.

CJ 102 Introduction to Corrections

Prerequisite: CJ 101 or its equivalent.

An in-depth examination of the American Correctional System. Traditional punitive measures will be analyzed in relation to current reintegration alternatives. (formerly CJ 202)

Offered every year. 3 credits.

CJ 111 Law Enforcement and Society

Prerequisites: CJ 101 or its equivalent

The structure and function of law enforcement agencies in contemporary society will be analyzed in their sociological context. Particular emphasis will be placed on the role of the police within the framework of the Criminal Justice System.

(formerly CJ 201)

Offered every year. 3 Credits.

CJ 193 Special Topics in Criminal Justice for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar.

CJ 203 Theories of Crime

Prerequisite: CJ 101

An exploration of prominent theories of crime causation, ranging from biological, psychological, sociological, and cultural explanations. Theories are compared and contrasted and implications are discussed as foundations for criminal justice system policy. (formerly CJ 121)

3 Credits. Offered Every Year

CJ 205 American Judicial System

Prerequisite: CJ 101 or its equivalent.

An examination of the development of law and the American legal system, including the problems related to the meaning and uses of law; the organizational hierarchy of the courts; and the role of the courts in the criminal justice system. Offered every year. 3 credits.

CJ 215 Art Crimes

LASC - Thought, Language, and Culture; Human Behavior and Social Processes

This course explores a variety of criminal offenses involving the production, consumption, distribution, and display of art, including graffiti/street art, forgery, theft, vandalism, rights infringement, and indecent and politically subversive art. The course examines these offenses from an interdisciplinary perspective, including law, criminology, aesthetics, economics, and cultural studies. Art crimes are examined from the international level to the local one. (This course does not count as a Criminal Justice elective for Criminal Justice majors)

CJ 301 Juvenile Procedure

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An examination of the underlying philosophy of juvenile justice and procedures used to process a juvenile alleged to be delinquent through the juvenile justice system. The course will focus on the differences between juvenile procedure and adult criminal procedure by examining recent court decisions and statutory law pertaining to juveniles.

CJ 302 Criminal Law

Prerequisite: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The function of criminal law and its relationship to various criminal offenses, including crimes against persons and crimes against property.

3 credits.

CJ 303 Patterns of Criminality

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The U. S. Department of Justice Index Crimes will be studied along with other crimes; which will be selected on the basis of their contemporary administrative significance and their effect on the criminal justice system in particular. 3 credits.

CJ 304 Prevention and Control

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An in-depth examination of the criminal justice system and the efforts it has exerted in an attempt to prevent and control criminal behavior. Course will focus on the traditional methods including probation and parole as well as recent trends in crime control and prevention: the utilization of community based treatment programs and attempts by many criminal justice agencies to avoid the processing of individuals through the system. 3 credits.

CJ 305 Principles of Evidence and Proof

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The study of the different types of evidence, relevance, the hearsay rule and its exceptions, impeachment and cross-examination and privileged communications.

3 credits.

CJ 306 Contemporary Problems in Corrections

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An intensive analysis of selected problems in institutional and community corrections.

3 credits.

CJ 307 Contemporary Problems in Law Enforcement

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An intensive analysis of selected problems in American law enforcement and police-community relations. A major research paper is required.

3 credits.

CJ 310 Organized and White Collar Crime

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The methods through which organized crime influences and, in many instances, controls entire communities. Traditional types of crime heavily influenced by organized crime, such as loan sharking and gambling, will be analyzed in an effort to demonstrate the basis of power and wealth of organized crime in the United States.

3 credits.

CJ 311 Victimology

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

Criminal-victim relationships, with emphasis on victim-precipitated crimes and compensation to the victims. Consideration is given to: concept and significance of victimology; time, space, sex, age, and occupational factors in criminal-victim relationships; victims of murder, rape, other violent crimes and property crimes; victim typology; the public as victim; restitution and compensation to victims.

3 credits.

CJ 312 Women and the Law

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An examination of the female and her involvement with the legal processes in the United States. Attention will be focused on the female as the offender and as the victim. Analysis of the various theoretical approaches to understanding the female offender will be presented in addition to an exploration of the recent literature on the female and the criminal justice system.

3 credits.

CJ 314 Seminar on Offender Rehabilitation

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The "nothing works" doctrine generated by the controversial Martinson Report has resulted in considerable confusion regarding the effectiveness of corrections programs designed to elicit specific behavioral changes on the part of the correctional client. This course will thoroughly examine the debate surrounding the "nothing works" doctrine and present those methods of rehabilitation that have proven effective in the treatment of offenders. Probation, parole and programs for the incarcerated offender will be the primary focus of this course.

3 credits.

CJ 316 Civil Liabilities of Criminal Justice Professionals

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The civil liability for harm inflicted on another. Topics to be considered will include: intentional torts such as assault, battery, and false imprisonment; negligence; torts of strict liability; libel, slander and defamation; liability of owners and occupiers of land; and the liability of state and federal employees for harm caused in their respective professional capacities.

3 credits.

CJ 317 Evolution of American Law Enforcement

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

A critical analysis of the contemporary American law enforcement establishment in relation to the evolutionary forces that have contributed to its development. Excepting modern technology, the law enforcement function tends to run in predictable cycles. Traditional in origin, these cyclical phenomena may be observed in the patters of older societies. Reflections of the past are deemed vital to a more objective and well-rounded perception of current issues. 3 credits.

CJ 319 Economic Crime

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

The manner in which professionals in business are able to manipulate and control computer systems and engage in various types of while collar crime will be examined. Emphasis will be placed on consumer and computer fraud, embezzlement, and particular attention will be focused on corporate crime and on the criminal justice system's attempts to identify, prevent, and control it.

3 credits.

CJ 320 Criminal Procedure: Fourth Amendment Rights of the Accused

Prerequisites: CJ 205, or its equivalent; or permission of the instructor.

A study of due process, the exclusionary rule, and the legal problems associated with arrests, searches, and seizures. 3 credits.

CJ 321 Criminal Procedure: Fifth and Sixth Amendment

Prerequisite: CJ 205, or its equivalent; or permission of the instructor.

A study of the legal problems associated with interrogations, confessions, entrapment, lineups and wiretapping and electronic surveillance.

3 credits.

CJ 322 Gangs

Prerequisite: Junior standing

This course will offer an in-depth study of gangs in the United States. Topics to be examined include various theories of gang formation, group dynamics, and individual factors associated with gang membership. Attention will also be given to the different types of gangs that exist. Given these dynamics, the final portion of the course will focus on prevention and intervention efforts aimed at reducing gang behavior.

3 Credits.

CJ 323 Religion and Crime in Contemporary America

This course will serve as an introduction to issues related to religion and the criminal justice system. Topics will include the religious origins of the legal and correctional systems, religion and contemporary law, religion in prison and corrections, hate crimes and terrorism.

3 Credits.

CJ 324 Restorative Community Justice

Prerequisite: Junior standing

Restorative Community Justice is based on a new vision of criminal justice that stresses offender reintegration through offender accountability. Rather than simply a legal violation, crime is viewed as a breach in the relationship between the offender and the victim, and also the offender and the community. To the greatest degree possible, resolution should rest in the hands of those most directly involved, with the state mediating the conflict. This course will explore the philosophy of restorative justice, and current practices of victim-offender mediation, where the offender is required to directly confront the person(s) harmed, and the victim is given a real voice. It will examine how offenses can be resolved in ways that are positive and constructive for victims, communities, and also for offenders. The student will develop an understanding of the basic tenets of restorative justice, and also knowledge of how this concept is being applied in criminal justice practices in the U.S. and internationally. 3 Credits.

CJ 325 Capital Punishment

This course focuses on capital punishment law, particularly United States Supreme Court decisions addressing constitutional issues relevant to the death penalty. Students also will explore empirical, penological, political, and moral issues related to the death penalty and its administration.

3 Credits.

CJ 327 Race, Ethnicity, and Criminal Justice

Prerequisites: CJ205

An examination of the issues of race and ethnicity which continue to affect all aspects of criminal justice in America. Whether as offenders, victims, or as persons working (or seeking to work) within the system, African Americans, Hispanics, and other minorities are treated differently than non-minorities. This course explores the core concepts of race and ethnicity as they have developed in our culture, and examines the evidence for and against various forms of racism and discrimination in key institutions of the criminal justice system. The nature and status of constitutional, statutory, and other remedies are also explored.

3 Credits.

CJ 329 Crime and the Media

The course will deal with issues related to the mass media and crime in society. The increasing importance of the mass media in shaping peoples perception of and attitudes toward the criminal justice system will be focused on. Other topics will include the media as a cause and cure for crime, biases in the media coverage, the effects of the media on criminal proceedings and crime on television and films. 3 *Credits*.

CJ 330 Criminal Justice Administration

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An examination of organizational theory and its applications within criminal justice agencies. Consideration of the principles of organization and methods adopted by progressive agencies to insure effective criminal justice service to the community will be reviewed.

3 credits.

CJ 331 Research Methods in Criminal Justice

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An introduction to scientific methodology as related to criminal justice. The course will focus on the development of hypotheses, data collection, data analysis and hypothesis verification. Attention is also given to basic statistical techniques appropriate for criminal justice research.

Offered every year. 3 credits.

CJ 332 Homicide

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102, CJ 205, or their equivalent.

An in-depth discussion of the legal definitions of and rationalizations for homicide. The statistical aggregates of those occasions will be considered in terms of demographic and ethno-cultural phenomena. The murder episode is examined within the context of morality.

3 credits.

CJ 333 Terrorism

Prerequisites: CJ 101, CJ 201/CJ 111, CJ 202/CJ 102.

This course will explore the development of terrorism as a form of crime. Topics to be studied include major terrorist groups and their strategies, tactics and targets, jurisdictional issues, anti-and counter-terrorist operations, federal law enforcement, and future trends in terrorism.

3 credits.

CJ 334 Drugs, Crime and Society

Prerequisites: CJ 101

This course will present an overview of the problems of drug-related crime in contemporary society. Specific drug substances are discussed, as well as legal, cultural, and social factors in connection with drug enforcement, prevention and policy, and the effects on society.

3 credits.

CJ 335 Comparative Criminal Justice Systems

Prerequisites: CJ205

Increasingly, practitioners in the American criminal justice systems are required to interact with their counterparts, as well as citizens from other national jurisdictions. Effective interaction, including cooperation and sharing, requires some understanding of how criminal justice is conceived and practiced in other parts of the world. This course examines and compares key institutions of the criminal justice systems in six model countries, two in Europe, two in Asia, one Islamic nation, and one from Latin America. We look not only at formal organizations in each country, but also at actual practices and how they compare with each other and the United States. To understand how differences and similarities have developed, we also learn something of the history, culture, political system and economic conditions of each model country. 3 Credits.

CJ 337 Criminal Justice Ethics

This course investigates the application of moral logic to problems in the field of Criminal Justice. Issues related to policing, criminal prosecution, and corrections will be studied. Students will be encouraged to induce general moral precepts and rules from the examination of particular situations and problems. 3 *Credits*.

CJ 338 Issues in Contemporary Security

Prerequisite: Junior standing

An overview of security systems applicable to contemporary industrial and commercial demands. Losses through physical, technological, and personnel hazards are viewed as preventable phenomena if vulnerabilities are recognized and ameliorative measures taken. Counter-measures will be weighed within the framework of loss criticality and cost of effectiveness. 3 Credits.

CJ 339 Probation, Parole, and Community Corrections

This course will present an overview of correctional options in the community. It will challenge students to consider how sanctions for criminal offenders can be managed in the community without unduly sacrificing community safety or the integrity of the justice system. Community Corrections is a fluid and continually changing field. The focus will be on main themes and trends in probation and parole. Specific attention will be given to the dual an often conflicting goals of community protection and positive offender change with which the practitioner is typically confronted, the types of policies and programs implemented to meet these goals, and their effectiveness. 3 Credits.

CJ 340 - 349 Special Topics in Criminal Justice

An in-depth study of a limited or specialized area within the criminal justice field. Course content will vary according to the area of specialization of the instructor and the interest of the students. May be repeated if course content differs. 3 credits.

CJ 352 Principles of Investigation

Prerequisite: CJ 101 and CJ 201/CJ 111/CJ 111

This course provides students with a theoretical framework for the practice of investigation in both the private and public sectors. Various techniques and protocols for investigation will be explored including infractions and ethics investigations and background investigations. Students will link these methods to the collection of physical evidence, interpretation and preservation of data, rules of evidence, techniques of documentation, along with interview and interrogation approaches. 3 credits

CJ 371 Strategic Planning

Prerequisite: Junior standing

This course is designed to acquaint students with general theories of planned change at the individual, organizational, and community levels. Special attention will be given to the need for employee involvement and collaboration in working toward organizational goals, with reference to concepts such as reinventing government and total quality management. The emphasis will be on applied theory. Students will be expected to develop their own ideas for change in the fields of policing, courts, or corrections. They would then be required to consider the resistances that would likely arise as their changes are introduced, and how they should best be dealt with, considering planned change theories from the course.

3 Credits.

CJ 384 Adult Offenders: Case Studies

Prerequisite: Junior standing.

A critical, theoretical examination of certain types of adult offenders, especially those who are socially disadvantaged. This examination will be based largely upon the analysis of qualitative research studies that have been done with adult offenders. Special attention is given to the case study method and to understanding adult offenders as individuals making choices within the constraints of larger political, economic, social and ideological structures.

CJ 385 Juvenile Offenders: Case Studies

Prerequisite: Junior standing.

A critical, theoretical examination of various types of juvenile offenders. This examination will be based largely upon the analysis of qualitative research studies that have been done with juveniles. Special attention is given to the case study method and to understanding juvenile offenders as individuals embedded within and influenced by numerous social structures (e.g., gender, race, family, school and economics).

CJ 398 Field Practicum in Criminal Justice

Prerequisite: Permission of the instructor.

The field practicum class involves the student's participation in the day-to-day functions of a publicly funded criminal justice agency. The course is designed to provide students with an opportunity to translate the theoretically oriented classroom experience into practical application.

3-6 credits.

CJ 399 Independent Study

Prerequisite: Permission of the instructor.

Individual research and independent study related to particular aspect of criminal justice that is of special interest. 3-6 credits.

CJ 400 Criminal Justice Capstone

LASC - Major Capstone

Provide students the opportunity to engage in a culminating experience in which they use critical thinking skills to analyze, integrate, and synthesize the knowledge gained in their major program of study. Students will apply that knowledge and critical thinking skills to the exploration of issues and concerns/problems of the profession in preparation of future employment and/or graduate education.

3-6 credits. Prerequisite: Senior Standing

Offered Every Year

CJ 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.



Economics

Department of Business Administration and Economics

Faculty

Wei Pang Lee, Professor (1992)

B.A., Soochow University, Taipei, Taiwan; M.B.A., Northwest Missouri State University; Ph.D., University of Georgia, Athens

William F. O'Brien, Jr., Professor (1997)

B.S., Worcester State College; M.A., Ph.D., Northeastern University

Bonnie Orcutt, Professor (2003) (on leave)

B.S., Worcester State College; M.A., Ph.D., Clark University

Elizabeth J. Wark, Professor (2007)

B.A., Mount Holyoke College; M.B.A., University of Massachusetts; M.A., Ph.D., Clark University

Janice G. Yee, Professor (2007)

B.A., University of Massachusetts Dartmouth; M.A., Ph.D., Clark University

The economics program is designed to help students understand the world they live in, analyze important social issues, and adapt to a changing economic climate.

The BS in Economics will provide each student with knowledge of current economic thought and will develop students' understanding of the role played by economic institutions in society. Having completed a thorough program integrating economic theory and practice, students will be prepared to effectively participate in society as informed citizens to promote social well-being. Students will be prepared to succeed in a wide array of positions in business, government, and nonprofit organizations and will be able to successfully pursue graduate work in economics and related fields, predominately at the Masters level. Qualified majors will have an opportunity for honors and advanced coursework, intensive faculty interactions, national and regional competitions and activities, and economic research.

Graduates with a BS in Economics will be able to:

- Demonstrate the ability to present orally and in writing a coherent, logical economic argument grounded in economic theory.
- Read and assess articles on economic topics.
- Articulate orally and in writing the core economic principles, concepts and theories that form the foundation for economic analysis and economic research.
- Investigate economic issues by synthesizing, building, and using theories/ models to predict the behavior of economic agents.

 Evaluate economic issues and real world problems through data analysis and the application of appropriate statistical techniques, quantitative and/or qualitative methods.

The Minor in Economics provides students with an excellent background for work in business fields such as banking, insurance, finance and accounting. Combining an Economics Minor with a B.S. degree in Business Administration helps to give students an edge in the marketplace. The Minor in Economics is equally appropriate for work in the private section, in the not-for-profit section and in the public sector at the federal, state, or local level. The minor may also help to prepare students for careers in teaching, journalism, and law, as well as for admission to graduate programs in public policy, law, business, international relations, journalism and related fields.

Omicron Delta Epsilon, the international honor society in economics, is available to outstanding students.

Requirements for a Major in Economics: 33 credits with EC designation

EC 110	Introduction to Microeconomics
EC 120	Introduction to Macroeconomics
EC 150	Statistics (or another acceptable statistics course)
EC 200	Intermediate Macroeconomics
EC 201	Intermediate Microeconomics

One of the following:

EC 306 Introduction to Econometrics

(or a course in which calculus is a primary topic)

The remaining 15 (or more) credits may be chosen from economics electives in accordance with special interests and career objectives.

Students are encouraged to take an internship if their program permits.

Requirements for a Minor: 18 credits

EC 110	Introduction to Microeconomics
EC 120	Introduction to Macroeconomics
PLUS Any f	our additional Economics courses

BA courses that will count towards the major or minor in Economics:

Students pursuing a major or minor in Economics may elect to use **ONE** of the following BA courses to count towards their electives in the EC major/minor that may also count within the electives of the BA minor. (Note: There are 15 credits of electives in the EC major, 12 credits of electives in the EC minor, and 12 credits of electives in the BA minor.)

BA 316	Financial Management
BA 404	Corporate Finance
BA 415	Investment Analysis

EC courses that will count towards the major in Economics and the minor in Business Administration:

Students pursuing a major in Economics and a minor in Business Administration may use ONE of the following EC courses to count both within the 12 credits of elective courses for the BA minor AND within the 15 credits of electives for the EC major.

EC 205	Money, Banking and Monetary Policy
EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

EC courses that will count towards the major in Business Administration and a minor in Economics:

Students pursuing a major in Business Administration and a minor in Economics may use **TWO** of the following EC courses to count in both within the 12 credits of elective courses for the BA major AND within the 12 credits of electives for the EC Minor:

EC 205	Money, Banking and Monetary Policy
EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

EC courses that will count towards the major in Business Administration:

Students pursuing a major in Business Administration may use **TWO** of the following EC courses to count within the 12 credits of electives for the General Business concentration.

EC 205	Money, Banking and Monetary Policy
EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

EC courses that will count towards meeting the requirements of the International Business concentration. A maximum of two of the EC courses listed below may be used.

EC 301	Economic Development
EC 307	International Finance
EC 308	International Trade

EC courses that will count towards meeting the requirements of the Finance Concentration:

EC 205	Money, Banking and Monetary Policy
EC 307	International Finance.

BA courses and EC courses that will count towards meeting the requirements of a double major in Business Administration and in Economics:

Students pursuing a double major in Business Administration and Economics may use:

TWO of the following EC courses to count within the 12 credits of elective (concentration) courses for the BA major, and

ONE of the following BA courses to count within the 15 credits of elective courses for the EC major.

EC 205 Money, Banking and Monetary Policy	BA 316 Financial Management
EC 301 Economic Development	BA 404 Corporate Finance
EC 307 International Finance	BA 415 Investment Analysis
EC 308 International Trade	

Sample Timeline for Completion of Degree: Economics (for All Students Entering in Fall 2012 or Later)

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I (WR)	3
EC 120	Introduction to Macroeconomics	3
EC 150	Statistics (or acceptable statistics course)	3
LASC	Thought, Language, and Culture (TLC)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II (WR)	3
LASC	Constitutions (CON)	3
EC 110	Introduction to Microeconomics	3
LASC	Quantitative Reasoning (QR)	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15

YEAR TWO

Semester Three			
Course No.	Course Name		Credits
EC	Economics Elective (#1)		3
LASC	Creative Arts (CA)		3
LASC	Natural Systems and Processes (NSP)		4
SELECT	General Elective		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	16

Semester Four	•	
Course No.	Course Name	Credits
EC	Either EC 202 or 306	3
EC	Economics Elective (#2)	3
LASC	Natural Systems and Processes (NSP)	3-4
LASC	Global Perspectives (GP)	3
LASC	QR Course	3
	Semester Subtotal	15-16

YEAR THREE

Semester Five			
Course No.	Course Name		Credits
EC 201	Intermediate Microeconomics		3
EC	Economic Elective (#3)		3
SELECT	General Elective		3
SELECT	General Elective		3
LASC	Individual and Community Well-Being (ICW)		3
		Semester Subtotal	15

Semester Six			
Course No.	Course Name		Credits
EC 200	Intermediate Macroeconomics		3
EC	Economic Elective (#4)		3
LASC	Choose One: DAC or WAC or QLAC		3
SELECT	General Elective		3
SELECT	General Elective		3
		Semester Subtotal	15
Comments	Students need 1 DAC, 1 WAC and 1 QLAC		

YEAR FOUR

Semester Seven			
Course No.	Course Name		Credits
LASC/EC	Capstone course or Elective #5		3
LASC	See Comment Below		3
SELECT	General Elective		3
SELECT	General Elective		3
SELECT	General Elective		3
		Semester Subtotal	15
Comments	Students need 1 DAC, 1 WAC and 1 QLAC		

Semester Eight			
Course No.	Course Name		Credits
EC	Capstone course or Elective #5		3
LASC	See Comment Below		3
SELECT	General Elective		3
SELECT	General Elective		3
SELECT	General Elective		3
		Semester Subtotal	15
Comments	Students need 1 DAC, 1 WAC and 1 QLAC		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Economics Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

EC 102 Consumer Economics

LASC-Individual and Community Well-Being

An in-depth study of personal and family economics, obtaining income, buying wisely, consumer borrowing, saving, and financial investment; the consumer protection and consumer legislation movements will be specifically emphasized. Offered every 2 years. 3 credits.

EC 104 Personal Financial Planning

LASC-Individual and Community Well-Being

An investigation of the major vehicles for our personal savings: bonds, stocks, mutual funds, real estate, and retirement and estate planning.

Offered every year. 3 credits.

EC 110 Introduction to Microeconomics

LASC-Human Behavior and Social Processes

An introduction to the operation of the American market system and to the behavior of its participants whether consumers, producers, the government, or other nations engaged in international trade with the United States. Offered every year. 3 credits.

EC 120 Introduction to Macroeconomics

LASC-Human Behavior and Social Processes

Introduction to economic analysis with particular emphasis upon the national problems of achieving and maintaining full employment, general price stability, and growth of the American economy through time.

Offered every year. 3 credits.

EC 150 Statistics

LASC-Quantitative Reasoning

Prerequisites: EC 110 or EC 120, and Accuplacer code of 4

Basic tools of statistical analysis appropriate to research in the social sciences; topics include measures of central tendency, hypothesis testing, time series, index numbers, regression and correlation.

Offered every year. 3 credits.

EC 200 Intermediate Macroeconomics

Prerequisites: EC 110, EC 120 and minimum sophomore status

An intermediate analysis of the determination of the level and growth of national income and employment, special attention given to the problems of inflation and recession and to the national fiscal and monetary policies designed to maintain full employment and stable price levels.

Offered every year. 3 credits.

EC 201 Intermediate Microeconomics

Prerequisite: EC 110, EC 120 and minimum sophomore status

An intermediate level treatment of the theory of market pricing in a private enterprise system as it affects the resource and output decision of firms and industries under various market structures and the behavior of consumers. Offered every year. 3 credits.

EC 202 Introduction to Mathematical Economics

Prerequisites: EC 110, EC 120; MA 110 with a grade of C- or above or an Accuplacer code of 6

A survey of some basic mathematical techniques appropriate to the analysis of economic models and application of economic theory.

Offered every year. 3 credits.

EC 205 Money, Banking, and Monetary Policy

Prerequisites: EC 110, EC 120

A study of the roles of money, depository institutions, and central bank monetary policy in maintaining stable growth of the American economy.

Offered every year. 3 credits.

EC 206 Urban Economics

Prerequisites: EC 110, EC 120

The theory and policy of the growth and development of metropolitan areas; some of the policy-related problems discussed are poverty, residential and commercial land use, and traffic congestion.

Offered every 3 years. 3 credits.

EC 208 Economics of Health Care

LASC-Individual and Community Well-Being; Writing Across the Curriculum

Prerequisites: EC 110, EN 102

Introductory study of the health care industry of the United States; pricing of health care, manpower availability, alternative delivery systems, third party payments, and government role in planning, regulating, and financing health care. Offered every year. 3 credits.

EC 210 Current Economic Issues

Prerequisites: EC 110, EC 120

This course is designed to connect economic knowledge and theory acquired at the introductory level to current economic issues and policy. National and international topics of importance will be considered. For example, pollution, trends in productivity, profitability and distribution, debt and deficits, patterns of investment, trade, and globalization and the economic issues of race, gender and poverty may be covered.

EC 215 Labor Economics

Prerequisites: EC 110, EC 120

Offered every year. 3 credits

A study of the process of wage determination in a market economy, consideration given to the evolution of union organization and collective bargaining affecting wages, hours, working conditions, and grievance procedures for labor. Offered every 2 years. 3 credits.

EC 301 Economic Development

Prerequisites: EC 110, EC 120

A survey of contemporary economic theories concerning less developed countries; social, cultural, and political forces shaping the development of such countries are also investigated.

Offered every 3 years. 3 credits.

EC 306 Introduction to Econometrics

Prerequisites: EC 110, EC 120, MA 150 or EC 150

The application of statistical techniques to the verification of economic models and examination of economic problems. Offered every 2 years. 3 credits.

EC 307 International Finance

Prerequisites: EC 110, EC 120

Study of how international trade and investment is financed in a world of floating, fixed and managed exchange rate systems.

Offered every 2 years. 3 credits.

EC 308 International Trade

LASC—Global Perspectives Prerequisites: EC 110, EC 120

Reasons why nations gain by spatial specialization and exchange with other countries. Analysis of the mechanism by which international equilibrium is restored. Study of trade and foreign exchange policies.

Offered every 2 years. 3 credits.

EC 309 Public Spending and Taxation

Prerequisites: EC 110, EC 120

Analysis of government spending, revenue sharing and taxation; includes the impact of government spending upon efficient use of resources and national growth.

Offered every 2 years. 3 credits.

EC 400 Independent Study in Economics

Prerequisites: EC 200, EC 201 OR permission of Instructor

For the student whose needs cannot be fully met by available offerings; actual arrangements to be made between student and professor; not intended for general enrollment; a limit of three credits can be acquired.

Offered every year. 1-3 credits.

EC 402 Internship in Economics

Prerequisites: EC 200, EC 201 OR permission of Instructor

Practical experience in economic analysis with industry, non-profit organizations, government agencies; internships may be of varying length.

Offered every year. 1-12 credits.

EC 403 Special Topics in Economics

Prerequisites: EC 200, EC 201 OR permission of Instructor

Covers selected topics in economics of mutual interest to the student and faculty.

Offered every 2 years. 1-3 credits.

EC 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

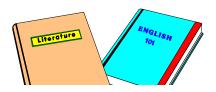
EC 490 Capstone in Economics

LASC - Major Capstone

Prerequisites: EC 110, 120, 200, 201, OR permission of Instructor

This course serves as an integrative capstone course for the economics major and should normally be taken during the student's last two semesters of study. Basic tools and methods of economics are used to understand and analyze a variety of contemporary economic problems and policy issues.

Offered every other year. 3 credits.



English Department of English

Faculty

Elizabeth Bidinger, Associate Professor (2007)

A.B., University of Michigan; M.A., Boston University; Ph.D., University of Connecticut

Charles Cullum, Professor (2014)

B.A., Penn State University, University Park; M.A., Ph.D., Temple University

Matthew Ortoleva, Assistant Professor (2011)

B.A., Rhode Island College; M.A., Ph.D., University of Rhode Island

Dennis Quinn, Professor, Department Chair (1996)

B.A., Worcester State College; M.A., Assumption College;

Ph.D., University of Massachusetts

Josna E. Rege, Professor (2006)

B.A., Harvard University; M.A., Ph.D., University of Massachusetts, Amherst

Christina Santana, Assistant Professor (2016)

B.A., M.A., University of Nevada, Reno; Ph.D., Arizona State University

Hardeep Singh Sidhu, Assistant Professor (2016)

B.A., Boston University; M.A., Ph.D., University of Rochester

MaryLynn Saul, Professor (1995)

B.S., M.A., Ph.D., Ohio State University

Heather Treseler, Assistant Professor (2011)

B.A., Brown University; Ph.D. University of Notre Dame

Donald W. Vescio, Jr., Associate Professor (1998)

A.B., State University of New York, Oswego; M.A., University of New Hampshire; Ph.D. University of Rochester

Charles Wasilko, Associate Professor (1970)

A.B., Dickinson College; M.A., Harvard University

Cleve Wiese, Assistant Professor (2014)

B.A. Rhodes College; M.A., New York University; Ph.D., State University of Texas, Austin

Karen Woods Weierman, Professor (2000)

B.A., Georgetown University; Ph.D., University of Minnesota

Sharon R. Yang, Professor (1999)

B.A., University of Massachusetts, Lowell; M.A., Clark University;

Ph.D., University of Connecticut

The principal objectives of the English program are to help students to communicate clearly, logically and effectively; to use research methods intelligently; to analyze, interpret and enjoy literature; and to develop a perspective on the world that is informed by intensive study of literature and its critical methods. The program also seeks to familiarize students with the classics of world literature, emphasizing the major authors, works and literary movements which distinguish English and American literature. At the same time, the program seeks to introduce students to "alternative voices" in literature, voices that are new to the literary canon or that occupy a literary space outside of it. The intellectual growth of majors is carefully nurtured to ensure that they are prepared for diverse career paths, scholarly research, and success in graduate school. Moreover, reflecting the institution's historical mission, the English program provides guidance and support for future teachers of English.

Requirements for a Major: 36 credits in English (exclusive of EN 101 and EN 102) which must include the following:

EN 210	Survey of American Literature I or
EN 211	Survey of American Literature II
EN 220	Survey of English Literature I
EN 221	Survey of English Literature II
EN 255	Methods of Literary Studies
EN 360	Shakespeare I

Electives: 21 credits in English (including a minimum of 12 credits in 300 or 400 level literature courses).

Students declaring English as a major must demonstrate a competency in a foreign language at the basic level.

Sample Timetable for Completion of Degree: English

YEAR ONE

Semester One				
Course No.	Course Name	Credits		
LASC	First-Year Seminar	3		
EN 101	English Composition I	3		
WL (LASC)	Beginning Language I (TLC*)	3		
LASC	Quantitative Reasoning (QR)	3		
LASC	The United States and Its Role in the World (USW)	3		
	Semester Subtotal	15		

Semester Two			
Course No.	Course Name		Credits
EN 102	English Composition II		3
LASC	Constitutions		3
WL (LASC)	Beginning Language II (GP)		3
EN 1XX	100 Level Major Elective		3
LASC	Natural Systems and Processes (NSP)		3
		Semester Subtotal	15

YEAR TWO

Semester Three				
Course No.	Course Name		Credits	
EN 220	English Literature Survey I		3	
EN 255	Methods of Literary Study		3	
LASC	Natural Systems and Process (NSP)		4	
LASC	Human Behavior and Social Processes (HBS)		3	
LASC	Creative Arts (CA)		3	
		Semester Subtotal	16	

Semester Four		
Course No.	Course Name	Credits
EN 221	English Literature Survey II	3
SELECT	General Elective	3
EN	Major Elective	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		*

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
EN 210 or 211	American Literature Survey I or II	3
EN	Major Elective (300/400)	3
SELECT	General Elective	3
LASC	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
EN 360	Shakespeare I	3
EN	Major Elective (300/400)	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
EN	Major Elective (300/400)	3
EN	Major Elective (300/400)	3
EN	Major Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
LASC/EN	Capstone	3
EN	Major Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		I

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Major in English, Concentration in Writing: 15 credits in writing courses (exclusive of EN 101 and EN 102) in addition to the 15 credits in Shakespeare (EN 360); surveys (EN 210 or EN 211; EN 220 and EN 221), and EN 255 required of all majors. The remaining 6 credits must be literature electives at the 300-level or above. The 15 credits in writing will be selected from the following:

EN 207	The Writer's Life
EN 250	Creative Thinking and Critical Writing
EN 251	Advanced Expository Writing
EN 252	Technical Writing
EN 253	Business Communications
EN 256	Creative Writing: Fiction
EN 258	Creative Writing: Nonfiction
EN 260	Creative Writing: Poetry I
EN 262	Creative Writing: Poetry II
EN 266	Journalism: Practice and Techniques
EN 267	Journalism: Advanced Newswriting
EN 268	Journalism: Feature Writing
EN 269	Journalism: Interpretive Reporting
EN 270	Journalism: Editing
EN 271	Journalism: Workshop
EN 272	News Reporting and Writing I
EN 275	Sportswriting

EN 281	Web Authoring and Publication
EN 341	Advanced Practices in Writing
EN 351	News Reporting and Writing II
EN 352	Practicum in Journalism
EN 353	Narrative Journalism
EN 354	Opinion Writing
EN 411	Theory and Teaching of Writing
EN 415	Technology and the Teaching of Writing
CM 366	Scriptwriting
A 3-6 credi	t internship in writing, whether in English (EN410 or EN 475) or other
languages	(FR 475 or SP 475)

Requirements for a Major in English, Concentration in Journalism: In addition to taking the required courses for the English major and two 300- or 400-level literature electives, students choosing the journalism concentration must take five journalism courses comprised of three required courses and two electives.

The required journalism courses are the following:

EN 107	Jounalism and Democracy
EN 272	News Reporting and Writing I
FN 416	Media Law and Ethics

The elective journalism courses are the following:

EN 268	Feature Writing
EN 270	Editing
EN 275	Sportswriting
EN 351	News Reporting and Writing II
EN 352	Practicum in Journalism
EN 353	Narrative Journalism
EN 354	Opinion Writing
EN 475	Internship in English (under supervision of faculty member who
	teaches journalism)

Prerequisites: EN 102 English Composition II (or equivalent LASC course), EN 107 Journalism and Democracy, and EN 272 News Reporting and Writing I are prerequisites for every journalism course except EN 270 Editing, which has only EN 102 English Composition II (or equivalent LASC course) as a prerequisite.

Women's Studies: English majors may elect an interdisciplinary concentration in women's studies. They must complete the requirements for the standard English major. They must have 15 credits in women's studies courses, with the English courses among them counting toward the major. For more information, see the Women's Studies section of this catalog.

Requirements for a Minor: 18 credits in English (exclusive of EN 101 and EN 102) which must include the following:

EN 210	Survey of American Literature I or
EN 211	Survey of American Literature II
EN 220	Survey of English Literature I
EN 221	Survey of English Literature II

English electives: 9 credits

Requirements for a Minor in Writing: 18 credits of writing beyond EN 101, EN 102, or EN 250. Students must take EN 207 A Writer's Life and at least two 300-level writing courses. The other 9 credits may be selected from any of the writing courses offered by the department, including, but not limited to, EN 251, EN 252, EN 253, EN 256, EN 258, EN 260, EN 262, EN 266, EN 267, EN 268, EN 269, EN 270, EN 271, EN 272, EN 275, EN 281, EN 351, EN 352, EN 353, EN 354. Other writing courses offered in other departments may be counted toward the minor with the permission of the Chair of the English Department. Each student must take at least one course designated a professional writing course.

The Writing Center

Worcester State University's Writing Center is located in Sullivan 306. Staffed by graduate assistants and peer tutors, the Writing Center's offerings include individual writing tutorials for undergraduate and graduate students; reference material and workshops to help candidates prepare for the Massachusetts Teacher Test; writing across the curriculum resource material for Worcester State University faculty; and online tutorials for a wide range of technology-based subjects.

The Writing Center is fully connected to the campus network and the World Wide Web. The Worcester State University OWL (Online Writing Lab), the Writing Center's online community, hosts a varied collection of reference materials useful for both the academic and business writer. In addition, faculty, students, and members of the greater Worcester community submit their work online and receive feedback and support within 72 hours.

Sessions with Writing Center staff can be arranged on an appointment, drop-in, or online basis, and all services are offered at no charge. For more information, visit the OWL at the following web address: www.worcester.edu/owl.

English Honor Society:

Sigma Tau Delta, an international honor society in literature, is available to outstanding junior and senior English majors and minors.

English Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

EN 101 English Composition I

LASC-Writing I

Students learn to address audience and purpose as they develop an effective writing process. Instruction and practice in the process of composing expository essays. Emphasis on planning, drafting, revising and editing. [Required of all students unless exempted by the English Department.]

Offered every year. 3 credits.

EN 102 English Composition II

LASC-Writing II

Focuses on formal academic discourse and research methods, providing a foundation for writing in academic disciplines. A continuation of EN 101. Emphasis on critical thinking, stylistic analysis, argumentation, research and documentation. [Required of all students unless exempted by the English Department.]

Offered every year. 3 credits.

EN 105 Introduction to Literature

LASC-Thought, Language, and Culture

A critical introduction to the principal genres of literature: poetry, drama, and fiction. Offered every year. 3 credits.

EN/CM/GL 107 Journalism and Democracy

This course introduces students to the history of American journalism and the role of journalism in democratic and non-democratic societies.

Offered every year. 3 credits.

EN 130 Ancient Classics of Western Literature

LASC-Thought, Language, and Culture

Greek and Roman literary masterpieces in translation, including Homer, Greek tragedy, Plato, Virgil and Roman comedy and satire.

Offered every 2 years. 3 credits.

EN 131 Great Works of Western Literature, Medieval to Modern

Continental masterpieces of the last millennium in translation by such writers as Dante, Cervantes, Voltaire, Dostoevsky, Baudelaire, and Kafka.

Offered every 2 years. 3 credits.

EN 132 World Literature

LASC - Global Perspectives; Thought, Language, and Culture; Diversity Across the Curriculum

Representative poems, stories, plays, both ancient and modern, from Asia, Africa, and Latin America. Offered every year. 3 credits.

EN 140 Introduction to Poetry

LASC-Thought, Language, and Culture

Examination and appreciation of the techniques and types of poetry including the sonnet, the pastoral, the mock heroic, and the ode.

Offered every year. 3 credits.

EN 145 Introduction to Drama

LASC-Thought, Language, and Culture

Theories and development of tragedy and comedy; plays of Sophocles to Eugene O'Neill as illustrations of these and related genres.

Offered every year. 3 credits.

EN 150 The Short Story

LASC-Thought, Language, and Culture

Introduction to the art of the short story through analysis of representative works.

Offered every year, 3 credits.

EN 152 The Novelette

LASC-Thought, Language, and Culture

The major practitioners of the novelette over the past century: Conrad, Mann, Kafka, Dostoyevsky, and others. Offered every 3 years. 3 credits.

EN 156 Mythology

LASC-Thought, Language, and Culture

Myths and legends of ancient Greece and Rome which form a part of the classical tradition in English literature. Offered every year. 3 credits.

EN 158 Science Fiction

LASC-Thought, Language, and Culture

The nature and function of nineteenth- and twentieth-century science fiction literature: Wells, Verne, Asimov, Bradbury, and others.

Offered every 2 years. 3 credits.

EN 160 The Literature of the Bible

LASC-Thought, Language, and Culture

Biblical writings. Emphasis will be placed on the Old Testament.

Offered every 2 years. 3 credits.

EN 164 Fantasy, Faerie and Folk

LASC-Thought, Language, and Culture

Recurrent themes, literary characteristics, and structure of folktales, faerie and fantasy. Offered every 2 years. 3 credits.

EN 165 Oral Literature: The Art of Storytelling

LASC-Creative Arts; Thought, Language, and Culture

An examination of representative types and stories from diverse cultures and of techniques and practices used by their storytellers.

Offered every 2 years. 3 credits.

EN 167 Literature and Human Rights

LASC-Global Perspectives; Diversity Across the Curriculum

An analysis of international creative writing dealing with the subject of human rights. Resource persons from different fields will be utilized.

Offered every 3 years. 3 credits.

EN 168 Film and Literature

An examination of the fundamental, rhetorical techniques of film and literature to determine the similarities of and differences between the two forms of expression.

Offered every 2 years. 3 credits.

EN 169 Ethnic Literature in the U.S.

LASC—Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum Study of ethnic Literature in the U.S., focusing on African-American, Asian-American, Latino, and Native American writers

Offered every year. 3 credits

EN 170 The Search for Identity: Literature of Self-Discovery

LASC- Thought, Language, and Culture; Diversity Across the Curriculum

Understanding the nature and power of fiction, the relation between problems of individual identity, and the operation of the imagination.

Offered every 3 years. 3 credits.

EN 172 Women and Literature

Explores basic issues and problems in literature by and about women.

Offered every 2 years. 3 credits.

EN 174 Women Poets

LASC - Thought, Language, and Culture

A close reading and analysis of poetry written by women from a historical as well as a contemporary feminist perspective. Offered every 3 years. 3 credits.

EN 190 Special Readings in Literature

An introductory literature course responsive to current interests or controversies.

Offered every year. 3 credits.

EN 193 Special Topics in English for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. An introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

EN 202 Honors Composition

Prerequisite: Students in Honors Program only

LASC- Writing II

Focuses on writing development for academic success and citizenship, emphasizing rhetorical analysis, information literacy, and academic and public discourse.

Offered every fall. 3 credits.

EN 207 The Writer's Life

Students examine the role of the writer in society and map their own possible career paths as writers. Offered every year. 3 credits.

EN 210 Survey of American Literature I

Prerequisite: EN 102

American literature, beginnings to the Civil War; colonial and federal periods, and the transcendentalists. Offered every year. 3 credits.

EN 211 Survey of American Literature II

Prerequisite: EN 102

American literature since the Civil War; naturalism and realism.

Offered every year. 3 credits.

EN 220 Survey of English Literature I

Prerequisite: EN 102

The development of English literature from the beginnings to 1798. Required of all English majors.

Offered every year. 3 credits.

EN 221 Survey of English Literature II

Prerequisite: EN 102

The development of English literature from 1798 to the present. Required of all English majors.

Offered every year. 3 credits.

EN 230 Environmental Themes in Literature

This class explores environmental issues as presented in poetry, essays and novels, including such writers as Thoreau, Hemingway and Ann Tyler.

Offered every 3 years. 3 credits.

EN 240 Survey of Postcolonial and Transcultural Literature

LASC-Global Perspectives

Prerequisite: EN 102

Introduction to literatures in English from formerly colonized countries in Africa, Asia, and the Caribbean, and from the postcolonial diaspora.

Offered every year. 3 credits.

EN 250 Creative Thinking and Critical Writing

LASC-Thought, Language, and Culture, Writing Across the Curriculum

Prerequisite: EN 102

This course promotes critical and creative thinking through exploring viewpoints of different professions, cultures and eras in various textual forms.

Offered every year. 3 credits.

EN 251 Advanced Expository Writing

Prerequisite: EN 102

Instruction and practice in writing expository essays. Analysis of selected readings on a common theme or subject area.

Offered every 3 years. 3 credits.

EN 252 Technical Writing

LASC-Writing Across the Curriculum

Prerequisite: EN 102

Focuses on how to write and produce basic documents, from research and progress reports to brochures and manuals.

Offered every year. 3 credits.

EN 253 Business Communications

Prerequisite: EN 102

A consideration of accepted business communication conventions; correspondence, memoranda, survey reports, proposals, interim reports, and project reports. [Open to Business Administration majors only.]

Offered every year. 3 credits.

EN 255 Methods of Literary Study

LASC-Thought, Language, and Culture, Writing Across the Curriculum

Prerequisite: EN 102

Introduction to critical methods of interpreting literature through examination of works by major authors.

Offered every year. 3 credits.

EN 256 Creative Writing: Fiction

LASC-Creative Arts

Prerequisite: EN 102

An opportunity to develop the student's writing ability and critical sense; work of students and professional authors will be analyzed.

Offered every year. 3 credits.

EN 257 The Power of Memoir

LASC-Thought, Language, and Culture, Creative Arts, Writing Across the Curriculum

Prerequisite: EN 102

Examines the craft and theory of memoir through wide-ranging readings and intensive practice in writing and workshopping personal narratives.

Offered every other year.

EN 258 Creative Writing: Nonfiction

LASC—Creative Arts
Prerequisite: EN 102

A course focused on memoir and narrative journalism; students analyze and create short works of nonfiction.

Offered every 2 years. 3 credits.

EN 260 Creative Writing: Poetry I

LASC-Creative Arts; Thought, Language, and Culture

Prerequisite: EN 102

Developing the student's skill in the creation of poetry; attention to contemporary trends in American poetry. Offered every year. 3 credits.

EN 262 Creative Writing: Poetry II

LASC-Creative Arts

Prerequisite: EN 102

Conversation with practicing poets; preparation of a small booklet of poems. EN 260 is not required as a prerequisite.

Offered every year. 3 credits.

EN 266 Journalism: Practice and Techniques

Prerequisite: EN 102, Writing Across the Curriculum

Training in developing, reporting, writing, and editing straight news, feature, profile, and interpretive stories. Offered every year. 3 credits.

EN 267 Journalism: Advanced Newswriting

Prerequisite: EN 102, Writing Across the Curriculum

Provides advanced training in the development and writing of straight news stories.

Offered every 3 years. 3 credits.

EN/CM 268 Journalism: Feature Writing

Prerequisite: EN 102

Provides advanced training in finding, researching, developing, and writing feature stories for newspapers and magazines.

Offered every 3 years. 3 credits.

EN 269 Journalism: Interpretive Reporting

Prerequisite: EN 102

Provides advanced training in developing and writing profiles and interpretive stories.

Offered every 3 years. 3 credits.

EN/CM 270 Journalism: Editing

Prerequisite: EN 102

Training in copy selection, copy editing, story placement, headline writing, layout, and use of style books.

Offered every 3 years. 3 credits.

EN 271 Journalism Workshop

Prerequisite: EN 102

LASC-Writing across the Curriculum

Provides lab sessions in all aspects of journalism for advanced writers; emphasis on publication.

Offered every 3 years. 3 credits.

EN/CM 272 News Reporting and Writing I

Prerequisites: EN 102 & EN 107

Includes fundamentals of news judgment, events coverage, sourcing, interviewing, writing on deadline, fact checking and basic editing.

Offered every year. 3 credits.

EN 275 Sportswriting

Prerequisite: EN 102

Introduces students to the journalistic art of sportswriting, reporting, and interviewing for various media.

Offered every year. 3 credits.

EN 281 Web Authoring and Publication

An introduction to web authoring and publication, with special emphasis on the conventions of digital discourse. Offered every 2 years. 3 credits.

EN 300 History of the English Language

LASC-Thought, Language, and Culture

Prerequisite: EN 102

A study of the origins of the English language from Old English through Middle English to the present.

Offered every year. 3 credits.

EN 302 Medieval Literature

The course exams genres in medieval literature, such as drama, poetry, debate, prose and riddles. Offered every 3 years. 3 credits.

EN 303 Arthurian Literature

LASC-Thought, Language, and Culture

This course traces the development of the Arthurian legends from their Celtic origins up through the modern period. Offered every 3 years. 3 credits.

EN 304 Witchcraft in Medieval and Renaissance Literature

LASC-Thought, Language, and Culture

Prerequisite: EN 102

This course explores how Medieval and Renaissance literature on witchcraft addressed contemporary concerns. Offered every 3 years. 3 credits.

EN 306 The Renaissance

LASC-Thought, Language, and Culture

Prerequisite: EN 102

The non-dramatic literature of Tudor England; emphasis on More, Wyatt, Sidney, Spenser, the earlier works of Shakespeare, Donne, and Bacon.

Offered every 3 years. 3 credits.

EN 308 Seventeenth-Century Literature

Prerequisite: EN 102

Prose and poetry of the era with special attention to the major works of Jonson and Donne.

Offered every 3 years. 3 credits.

EN 310 Eighteenth-Century Literature

Prerequisite: EN 102

The major figures of the Enlightenment with particular emphasis on satire: Dryden, Pope, Swift, Johnson, and Boswell. Offered every 3 years. 3 credits.

EN 311 Young Adult Literature

Prerequisite: EN 102 or EN 250

Theoretical and critical approaches to classic and contemporary texts written for young adults aged pre-teen to late teen

Offered every 3 years. 3 credits.

EN 312 The English Novel of the Eighteenth Century

Prerequisite: EN 102

Purpose, range, and developments in the novel of the eighteenth century: Defoe, Richardson, Fielding, Smollett, Sterne, and others.

Offered every 3 years. 3 credits.

EN 314 The English Novel of the Nineteenth Century

Prerequisite: EN 102

Representative nineteenth-century novelists: Austen, Bronte, Dickens, Thackeray, Eliot, Hardy, Conrad, and others. Offered every 3 years. 3 credits.

EN 316 The Modern British Novel

Prerequisite: EN 102

Selected works of major British novelists from 1900 through World War II: Joyce, Lawrence, Woolf, Forster, and others. Offered every 3 years. 3 credits.

EN 318 Romantic Literature

Prerequisite: EN 102

Poetry and prose with special emphasis on the poetry of Blake, Wordsworth, Coleridge, Shelley, Byron, and Keats. Offered every 3 years. 3 credits.

EN 320 Victorian Literature

LASC-Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 102

Study of selected prose and poetry of the major writers of the Victorian period.

Offered every 3 years. 3 credits.

EN 321 Romantic and Victorian Gothic

LASC-Thought, Language, and Culture

Prerequisite: EN 102

This genre gives students insight into the important writers, texts, and issues of the Romantic and Victorian eras.

Offered every 3 years. 3 credits.

EN 324 Continental Novelists I

Prerequisite: EN 102

European novelists of the nineteenth and twentieth centuries including Dostoyevsky, Mann, Camus, and others.

Offered every 3 years. 3 credits.

EN 330 Modern Drama

Prerequisite: EN 102

The theories and development of realism, naturalism, expressionism, folk drama; representative plays from Ibsen to O'Neill.

Offered every 3 years. 3 credits.

EN 332 Contemporary Drama

Prerequisite: EN 102

The dramatic works and aesthetics of Beckett, Pinter, and other selected dramatists of the contemporary theatre. Offered every 3 years. 3 credits.

EN 334 Modern Poetry

Prerequisite: EN 102

Close analysis of the development of British and American poetry from the late nineteenth century to World War II.

Offered every 3 years. 3 credits.

EN 336 Contemporary Poetry

Prerequisite: EN 102

Concentrates on poets whose major work was written after World War II; special attention to authors presently

writing and publishing.

Offered every 3 years. 3 credits.

EN 338 Contemporary Novel

Prerequisite: EN 102

American and English novels after World War II, with emphasis on living novelists.

Offered every 3 years. 3 credits.

EN 340 Twentieth-Century Literature

Prerequisite: EN 102

A survey of the major trends in twentieth-century poetry, drama, and fiction.

Offered every 3 years. 3 credits.

EN 341 Advanced Practices in Writing

Prerequisite: Permission of Instructor

Students gain advanced practices and skill in professional writing genres. Rotating topics and genres.

Offered every year. 3 credits.

EN 342 The American Novel I

Prerequisite: EN 102

The American novel from its origin to 1890; Brown, Cooper, Melville, Hawthorne, and others.

Offered every 2 years. 3 credits.

EN 344 The American Novel II

Prerequisite: EN 102

The American novelists from 1890 to World War II: Crane, Wolfe, Dreiser, Anderson, Hemingway, Steinbeck, and others. Offered every 2 years. 3 credits.

EN 345 American Women Writers

Prerequisite: EN 102, U.S. and World, Diversity Across the Curriculum

The course examines major works by American women writers in fiction, nonfiction, poetry, and drama within applicable critical contexts.

Offered every 3 years. 3 credits.

EN 346 History of Literary Criticism

Prerequisite: EN 102

An historical introduction to speculation concerning the nature and function of literature: selections from Plato to Frye.

Offered every 3 years. 3 credits.

EN 347 Studies in U.S. Ethnic Literature

LASC-U.S. and the World

Prerequisite: EN 102

Selected topics in U.S. ethnic literature, including thematic and comparative approaches, and in-depth studies of a single ethnic literature.

Offered every 3 years. 3 credits.

EN 348 Postcolonial Women's Writing

LASC-Global Perspectives

Prerequisite: EN 102

Writing by women from colonized and formerly colonized countries on local and global issues shaping women's lives and creative expression.

Offered every 3 years. 3 credits.

EN 350 Chaucer

Prerequisite: EN 102

A study of the development of Chaucer's versatile art and writings as expressive of the later Middle Ages. Offered every 3 years. 3 credits.

EN/CM 351 News Reporting and Writing II

Prerequisite: EN 272

Focuses on using documentary evidence in reporting. Students select a reporting specialty area such as sports, business or higher education.

Offered every 2 years. 3 credits.

EN/CM 352 Practicum in Journalism

Prerequisite: EN 270 & EN 272

Workshop in which students report, write, and edit the online college news magazine. Participate in all aspects of publication.

Offered every semester. 3 credits.

EN/CM 353 Narrative Journalism

Prerequisite: EN 272

LASC-Writing across the Curriculum, Creative Arts

Students analyze and create in-depth journalistic features and nonfiction stories that blend reporting with techniques of fictional storytelling.

Offered every 2 years. 3 credits.

EN/CM 354 Opinion Writing

Prerequisite: EN 272

Students analyze and practice writing op-eds and other opinion pieces. Learn to write commentary that is publication ready. Offered every 2 years. 3 credits.

EN 360 Shakespeare I

Prerequisite: EN 102

Major plays. Required of all English majors.

Offered every year. 3 credits.

EN 362 Shakespeare II

Prerequisite: EN 102

A continuation of EN 360; includes the sonnets and less familiar plays.

Offered every 2 years. 3 credits.

EN 364 Elizabethan and Jacobean Drama

Prerequisite: EN 102

Study of Shakespeare's contemporaries in the drama, among them Kyd, Marlowe, Jonson, Webster, Middleton, and Ford.

Offered every 3 years. 3 credits.

EN 380 Milton

Prerequisite: EN 102

A study of Milton's work from early poems to Paradise Lost, Paradise Regained, and Samson Agonistes; includes some prose pamphlets.

Offered every 3 years. 3 credits.

EN 382 English Theatre: 1660-1798

Prerequisite: EN 102

Representative works of Restoration and 18th century comedy by Etherege, Vanbrugh, Wycherley, Farquhar, Congreve, Goldsmith, and Sheridan.

Offered every 3 years. 3 credits.

EN 400 Seminar

Prerequisite: EN 102

Student presentations on individual figures and particular problems in literature.

Offered every year. 3 credits.

EN 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

EN 410 Writing Practicum

Prerequisite: EN 102

Training and practice in one-to-one assistance for students' writing for any course, stage, or specific need. Offered every year. 3-6 credits.

Study of current writing theory and classroom applications at the middle school, secondary and college levels. Offered every 2 years. 3 credits.

EN 415 Technology and the Teaching of Writing

Prerequisite: EN 102 and Permission of Instructor

EN 411 Theory and Teaching of Writing

An introduction to the use of computer and internet technologies in the teaching of writing.

Offered every 3 years. 3 credits.

EN/CM 416 Media Law and Ethics

Prerequisite: EN 272

An overview of the U. S. legal and justice systems and an examination of ethical issues in mass media.

Offered every 2 years. 3 credits.

EN 425 Independent Study in English

Prerequisite: EN 102, Consent of instructor

An opportunity for further study in a special field of interest under faculty supervision.

Offered every year. 1-6 credits.

EN 426 Senior Seminar

LASC - Major Capstone

Prerequisite: EN 255, or Consent of instructor

Course provides an option for seniors to fulfill their university capstone requirement in the discipline.

EN 450 Special Topics in English

Prerequisite: EN 102

Specific content will vary in response to particular student and faculty interests.

Offered every year. 3 credits.

EN 475 Internship in English

Prerequisite: EN 102, Consent of instructor

Provides majors the opportunity to gain practical experience in areas where they may apply acquired critical and

writing skills.

Offered every year. 3-6 credits.





Faculty

Judith Jeon-Chapman, Professor (1993)

B.A. College of St. Benedict; M.A., Ph.D., University of Washington

Ana Pérez-Manrique, Associate Professor, Department Chair (2006)

B.A. Universidad de Málaga, Spain; M.A., University of South Carolina;

Ph.D. Florida State University

Courses in French are designed for students whose interests and career plans have an international or multi-ethnic focus. Students who minor in French will develop listening, speaking, reading, and writing fluency and will study the culture, history and literature of the people who use the language.

Alpha Mu Gamma, a national honor society in foreign languages, recognizes excellence in the study of foreign languages. Any Worcester State University student who receives two "As" in French at any level at Worcester State University and a 3.0 cumulative G.P.A. is eligible to join. Application for membership is in early February. Contact Professor Judith Jeon-Chapman.

Requirements for a Minor in French: 18 credits in French including:

FR 100-299, beginning and intermediate courses (12 credits maximum)

FR 300-499, advanced courses (6 credits minimum)

(Students with advanced knowledge of French should begin at 300-level)

Placement for French Courses: Students are encouraged to discuss placement with French Faculty or the World Languages Department Chair. The following are intended to be general placement guidelines to help students with previous experience with French:

0-2 years of French in high school:
1-2 years of French in high school:
3 years of French in high school:
4 years of French in high school:
5 or more years of French in high school:
Native Speakers of French:
FR 101 Beginning French I
FR 210 Intermediate French II
FR 211 Intermediate French II
300-level & 400-level courses
300-level & 400-level courses

Students may also take a placement exam in French at the Academic Success Center. It is recommended that the results of the test be discussed with the French Faculty or the World Languages Department Chair, especially if the test places the student below the level recommended above.

French Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

FR 101 Beginning French I

LASC-Thought, Language, and Culture, Global Perspectives

Fundamentals of pronunciation, patterns of speech, basic structures. Develops listening, speaking, reading and writing skills.

Offered every year. 3 credits.

FR 102 Beginning French II

LASC-Thought, Language, and Culture, Global Perspectives

Prerequisite FR 101 or equivalent.

Offered every year. 3 credits.

FR 191 Special Topics in French

An introductory level course in French on current or specialized topics.

Offered every year. 3 credits.

FR 210 Intermediate French I

LASC-Thought, Language, and Culture; Global Perspective

Prerequisite: FR 102 or equivalent

Review of fundamentals and presentation of more complex grammatical features; development of conversational skills; selected readings, written and oral composition.

Offered every year. 3 credits.

FR 211 Intermediate French II

LASC-Thought, Language, and Culture; Global Perspective

Prerequisite: FR 210 or equivalent

Continuation of FR 210.

Offered every year. 3 credits.

FR 321 Advanced French Composition I

LASC-Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: Two FR 200 level courses or equivalent, EN 102

Practice in diverse composition styles as well as review of grammar, and introduction to reading French texts.

Conducted in French.

Offered every 3 years. 3 credits.

FR 323 Advanced French Conversation

LASC-Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Development of fluency and accuracy, free discussions, prepared oral presentations, practical exercises in oral expression. Conducted in French.

Offered every 3 years. 3 credits.

FR 331 General French Civilization

LASC-Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Significant aspects of French history, geography, and cultural achievements to World War I. Conducted in French. Offered every 3 years. 3 credits.

FR 341 Introduction to French Literature

LASC-Thought, Language, and Culture; Global Perspective (GP); Diversity Across the Curriculum (DAC)

Prerequisite: Two FR 200 level courses or equivalent

Major periods and genres of French literature. Conducted in French.

Offered every 3 years. 3 credits.

FR 342 Survey of French Literature I

LASC-Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Selections from the epic, drama, lyric poetry, and the major prose writers to major authors of the classical period. Conducted in French.

Offered every 2 years. 3 credits.

FR 344 Survey of French Literature II

LASC-Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Major authors of the eighteenth and nineteenth centuries. Conducted in French.

Offered every 2 years. 3 credits.

FR 346 Twentieth Century French Literature

LASC-Global Perspectives; Thought, Language, and Culture

Prerequisite: Two FR 200 level courses or equivalent

Major novelists, dramatists, and poets from the turn of the century to the present. Conducted in French.

Offered every 3 years. 3 credits.

FR 401 Seminar in French Studies

Prerequisite: For advanced students

Special topics in French language, literature or civilization.

Offered every 3 years. 3 credits.

FR 402 Independent Study in French

Prerequisite: Consent of instructor

Study of a special topic. Both content and eligibility subject to departmental guidelines and approval.

Offered every year. 1-6 credits.

FR 403 Teaching Assistantship in French

Prerequisite: FR 321 or instructor's approval. Suggested for advanced students of French.

Teaching Assistants in French will regularly attend the beginning or intermediate-level courses to which they are assigned to assist the professor.

Offered every year. 3 credits.

FR 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

Note: Courses in other foreign languages such as German, Chinese are offered when demand warrants and staffing permits.



History

Department of History and Political Science

Faculty

Nathan Angelo, Assistant Professor (2016)

B.A., Hofstra University; M.A., New York University and City University of New York; Ph.D., New School for Social Research

Joseph Preston Baratta, Professor (1999)

B.A., St. John's College; M.A., M.A.T., Ph.D., Boston University

Erika Briesacher, Assistant Professor (2012)

B.A., Illinois Wesleyan University; M.A., Southern Illinois University, Edwardsville; Ph.D., Kent State University

Anthony Dell'Aera, Assistant Professor (2016)

B.A., Trinity College; M.A., Ph.D., Brown University

Martin Fromm, Assistant Professor (2013)

B.A., Brown University; M.A., Stanford University; Ph.D., Columbia University

Aldo V. Garcia Guevara, Associate Professor (2006)

B.A., University of North Carolina, Asheville; M.A., Ph.D., University of Texas, Austin

Michael Gesin, Associate Professor (2007)

B.A., Worcester State College; M.A., Ph.D., Brandeis University

Charlotte Haller, Associate Professor (2004)

B.A., Brown University; M.A., Ph.D., University of Wisconsin

Tona J. Hangen, Associate Professor, Department Chair (2008)

B.S., Massachusetts Institute of Technology; Ph.D., Brandeis University

Peter Holloran, Professor (1999)

A.B., Suffolk University; M.A., Ph.D., Boston University

Tanya Mears, Assistant Professor (2010)

B.S., Tuskegee University; M.A., Ph.D., University of Massachusetts, Amherst

Najib E. Saliba, Professor (1971)

A.B., Miami University; M.A., Ph.D., University of Michigan

Robert W. Smith, Associate Professor (2007)

B.A., Syracuse University; M.A., Ph.D., College of William and Mary

The purpose of the discipline is to provide students with extensive course offerings to enable them to cope with a complex and ever-shrinking world. The study of history and political science also provides students with a broad background for a wide variety of professional occupational opportunities. Within the History major are concentrations in Public History and Foreign Service. The discipline also offers a minor in Pre-Law, a minor in Middle East Studies, and an honors seminar course taken at the American Antiquarian Society. Phi Alpha Theta, the national history honor society, is open to distinguished History majors.

Requirements for a Major in History: 42 credits including:

HI 103 & HI 104 & HI 105 World Civilization I & II & III

HI 111 & HI 112 US History I & II

US History electives: 6 credits European History electives: 6 credits Area Studies electives: 6 credits

One other elective in history, which can be from the "General" category (any history offerings excluding required survey courses HI- 103, 104, 105, 111 and 112): 3 credits

Two electives must be at the 300 or 400 level excluding required HI 411 All electives must be at the 200 level or higher.

Course in historical methods, to be taken during sophomore or junior year: 3 credits HI 411 The Historian's Craft (Prerequisites: HI 103, 104, 111 and 112) or HI 440 Internship (with departmental approval)

For majors entering in curriculum year 2010 and later: Senior capstone experience, usually taken during Fall of senior year: 3 credits

HI 460 Senior Research Seminar in History, or HI 470 Senior Thesis in History.

* Exception for Double Majors in Early Childhood or Elementary Education. Only 36 History credits are required; a student may opt to omit the "One Other" elective and the capstone course. If not taking the capstone course, the senior capstone requirement must be fulfilled by submission of a non-credit History Learning Portfolio before or during the student-teaching semester. See department for Portfolio forms and submission guidelines.

Sample Timetable for Completion of Degree: History

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
HI 111	U.S. History I (CON)	3
HI 103	World Civilization I	3
MA	Math Foundation Course or (QR)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
LASC	Quantitative Reasoning (QR)	3
EN 102	English Composition II	3
HI 112	U.S. History II	3
HI 104	World Civilization II	3
SELECT	Elective or Minor Course	3
	Semester Subtotal	15

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
HI 105	World Civilization III	3
HI	1 of 2 U.S. History Electives	3
HI	1 of 2 European History Electives	3
LASC	U.S. and its Role in the World (USW)	4
SELECT	General Elective or Minor course	3
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
HI	1 of 2 Area Studies History Electives	3
HI	2 of 2 U.S. History Electives (300/400 level)	3
HI 411	The Historian's Craft	3
LASC	Natural Systems and Process (NSP)	3
LASC	General Elective or Minor course	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
HI	2 of 2 European History Electives (300/400 level)	3
HI	2 of 2 Area Studies History Electives	3
SELECT	General Elective or Minor course	3
SELECT	General Elective or Minor course	3
LASC	Individual and Community Well-Being (ICW)	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
LASC	Natural Systems and Process (NSP)	4
HI	Elective in Major	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Global Perspectives (GP)	3
SELECT	General Elective or Minor course	3
	Semester Subtotal	16
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
HI Capstone	Either HI 460 or 470 Fall or Spring or complete sem. 8 (WAC) (CAP)	3
Select	General Elective or Minor course	3
LASC	Creative Arts (CA)	3
SELECT	General Elective or Minor course	3
SELECT	General Elective or Minor course	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
HI Capstone	HI 460 or 470 if not completed in Fall then General Elective or Minor (WAC) (CAP)	3
SELECT	General Elective or Minor course	3
LASC	Thought, Language & Culture (TLC)	3
SELECT	General Elective or Minor course	3
SELECT	General Elective or Minor course	3
	Semester Subtotal	15
Comments		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Minor in History: 24 credits

HI 103 & HI 104 & HI 105 World Civilization I and II and III

HI 111 & HI 112 US History I and II
HI 411 The Historian's Craft
History electives: 6 credits taken at 200 level or higher

Requirements for a Minor in Middle East Studies: 18 credits

HI 261 Middle East History I

HI 314 Twentieth Century Middle East History

AB 101 Arabic I AB 102 Arabic II

6 credits recommended by advisor

Requirements for a Major in History, Concentration in Public History: Juniors and seniors have the opportunity for independent study and off-campus internships. Students may receive academic credit for internships in history museums, historic restorations, historic libraries, archives, or in any one of a great variety of agencies in state, county, and local government. Internship/ independent study credit may be given for internships in private sector agencies which have a public interest. Public history concentrators will be able to complete the requirements for the history major and the political science minor.

Requirements for a Major in History, Concentration in Foreign Service: Programs are individually planned with the student's advisor and prepare individuals for careers in the State Department and the intelligence community. In addition to required courses, students will be encouraged to elect courses in the areas of economics, languages, management, geography, and related fields.

History Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

HI 103 World Civilization I

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from ancient times to 1500

Offered every year. 3 credits.

HI 104 World Civilization II

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from 1500 to 1914

Offered every year. 3 credits.

HI 105 World Civilization III

LASC-Global Perspectives; Thought, Language, and Culture

Surveys economic, social, political, and intellectual development of world civilizations and their inter-relationship from 1914 to the present.

Offered every year. 3 credits

HI 111 US History I

LASC-Constitutions; United States and Its Role in the World

From colonization through the Civil War era. A study of politics, society, economy, diplomacy, and culture in that period.

Offered every year. 3 credits.

HI 112 US History II

LASC-Constitutions; United States and Its Role in the World

From the Civil War era to the present. Topics include politics, society, economy, and culture in modern America. Offered every year. 3 credits.

HI 193 Special Topics in History for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year 3 credits.

HI/PO 201 International Relations I

LASC-Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, EN 101, EN 102 or EN 250

Theory and practice of international security (realism and internationalism) and international political economy (liberalism and protectionism) in their historical context.

Offered every year. 3 credits.

HI/PO 202 International Relations II: Globalization

LASC-Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, EN 101, EN 102 or EN 250

The promise and problems of globalization (spread of free market capitalism and political democracy). Offered every year. 3 credits.

HI 203 The United States Since 1945

LASC—United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum Prerequisite: EN 102 or EN 250

Explains the history and culture of the United States since 1945.

Offered every other year. 3 credits

HI 204 History of Science and Technology

LASC-Global Perspectives; Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 101, EN 102 or EN 250

Progress of science from the Enlightenment, including applied science or technology from the 19th century. Complements History of Mathematics.

Offered every year. 3 credits.

HI 205 Native America

This survey covers the broad sweep of Native American history and focuses on the encounter between American and European civilizations and how Native culture has adapted through the centuries.

Offered every 2 years. 3 credits.

HI 206 A History of Warfare

An examination of the role of war in conflict resolution, great battles which changed history, and the impact of technology on war.

Offered every 2 years. 3 credits.

HI 207 American West: Myth and Reality

The historic development of the West, its impact on the American character, and a study of how myths become accepted "fact."

Offered every 2 years. 3 credits.

HI 208 American Immigrant History

Survey of immigration. Topics such as old-world background, impact on US, nativism, cultural pluralism, religion, mobility, family and politics.

Offered every year. 3 credits.

HI/PO 211 History of US Foreign Policy I

LASC-United States and Its Role in the World

Prerequisite: HI 111 or HI 112

Colonial origins to the era of the Spanish American War. The sources and development of US foreign policy in that period. Offered every other year. 3 credits.

HI/PO 212 History of US Foreign Policy II

LASC-United States and Its Role in the World

Prerequisite: HI 111 or HI 112

From 1900 to recent times: US foreign policy traditions and the challenges of great power status.

Offered every other year. 3 credits.

HI 213 Colonial Latin America

The people of Latin America from Pre-Columbian societies to the wars for independence, focusing on race, sex and power.

Offered every other year. 3 credits.

HI 214 Modern Latin America

LASC-Thought, Language, and Culture; Global Perspectives; Diversity Across the Curriculum

The people of Latin America from independence to the present, focusing on race, sex and power.

Offered every other year. 3 credits.

HI 215 History of American Thought

LASC—Thought Language and Culture; United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisites: HI 111 or HI 112, EN 101, EN 102, or EN 250

Explores the history of ideas in the United States, including major intellectual movements, thinkers, and texts. Cross-listed with Women's Studies.

Offered every 3 years. 3 credits.

HI 216 Economic History of the US

An introduction to United States economic development; particular attention will be paid to industrialization and the labor force

Offered every year. 3 credits.

HI 217 US Social History

LASC—Thought Language and Culture; United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisites: EN 101, EN 102, or EN 250

Survey of social and cultural history. Topics such as family, religion, education, popular literature, architecture, transportation and reform.

Offered every 2 years. 3 credits.

HI/PO 218 US Constitutional History I

LASC- Constitutions; Human Behavior and Social Processes; United States and Its Role in the World

The development of American constitutional history to 1865.

Offered every 2 years. 3 credits.

HI/PO 219 US Constitutional History II

LASC - Constitutions; Human Behavior and Social Processes; United States and Its Role in the World

The development of the U.S. Constitution since 1865.

Offered every 2 years. 3 credits.

HI 221 African-American History I

The people of African descent from the emergence of the slave trade to the Civil War, focusing on race, gender, and power.

Offered every year. 3 credits.

HI 222 African-American History II

The people of African descent from the end of the Civil War through the twentieth century, focusing on race, gender, and power.

Offered every year. 3 credits.

HI 223 History of France I

Prerequisite: HI 103 and HI 104

Social, cultural, and military developments of France during the Middle Ages and the Capetian, Valois, and Bourbon periods to 1750.

Offered every two years. 3 credits

HI 224 English History I

LASC-Thought Language and Culture; Writing Across the Curriculum

Prerequisite: HI 103 or HI 104, EN 101, EN 102 or EN 250

English history from earliest settlement to the reign of Elizabeth I. Origins of the Common Law, Parliament, and English liberty.

Offered every other year. 3 credits.

HI 225 English History II

LASC - Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 101, EN 102, or EN 250 and any one of the following: HI 103, HI 104, HI 105, HI 111, HI 112, HI 203, HI 224, HI/PO 241

English history through the English Revolution, the Industrial Revolution, the British Empire, the World Wars, and decline.

Offered every other year, 3 credits.

HI 226 Latin American History through Film

This course will explore how filmmakers have portrayed Latin American History in their movies. Offered every 3 years. 3 credits.

HI 230 Nicaragua, the US and the World

LASC—United States and Its Role in the World; Diversity Across the Curriculum; Thought, Language, and Culture The course will examine the impact of globalization and imperialism on the lives of Nicaraguans at home and in their diasporic communities.

Offered every year. 3 credits.

HI 234/HI 235 Russian History I and II

A study of major political, economic, social, intellectual, and diplomatic currents in Russia, from the Kievan era to Stalin.

Offered every 2 years. 3 credits each.

HI 236/HI 237 Modern Far East History I and II

Civilizations dramatically different from our own, focusing upon China, Japan, and Southeast Asia since 1600. Offered every year. 3 credits each.

HI 240 History of American Popular Culture

This course is an introduction and survey of the multidisciplinary field of American Popular Culture, analyzing popular or non-elite culture in the United States from the colonial era to present.

Offered every year. 3 credits.

HI/PO 241 English Constitutional History

LASC-Global Perspectives; Human Behavior and Social Processes

Development of English Constitution from Magna Carta through revolution, supremacy of Parliament, reform acts, entry into European Union, and devolution.

Offered every 2 years. 3 credits.

HI 242 History of Early Modern Europe

Forces that shaped Europe since the Reformation: the political, economic, and intellectual context of the external expansion as well as the internal turmoils, such as the Thirty Years War and the European economy to 1789. Offered every 3 years. 3 credits.

HI 243 Introduction to Public History

Introduction to the field, theory, and practice of Public History and associated institutions such as museums, archives, and historical sites.

Offered every 2 years.

HI 244 American Urban History

The process of accelerating urbanization in America since the nineteenth century: cultural, social, economic and political aspects of urban life.

Offered every 3 years. 3 credits.

HI 245 History of Modern Germany I

The origins and growth of Brandenburg-Prussia; their impact on the rest of Germany from the foundation of the Holy Roman Empire to the emergence of the Second Reich in 1871.

Offered every 3 years. 3 credits.

HI 246 History of Modern Germany II

German economic and political crises from 1870 to the present. Offered every 3 years. 3 credits.

HI 247 Central America and the Caribbean

This survey examines the political, cultural and social history of Central America and the Caribbean from pre-Columbian times to the present with an emphasis on the 20th century.

Offered every 3 years. 3 credits.

HI 248 Seminar on Globalization and Human Rights

LASC—United States and Its Role in the World, Global Perspectives, Diversity Across the Curriculum (DAC)
A.I.D. program participants in their sophomore year will explore globalization and human rights and issues of personal growth and academic development.

Offered every three years. 3 credits

HI 249 US Labor History I

The relationship between workers, their employers, and the surrounding community between 1815 and World War II. Offered every 2 years. 3 credits.

HI 250 Special Topics in History

Special topics at the introductory or intermediate level; especially appropriate for first-and second-year student. Offered variously.

HI 251 The Roots of China's Rise: Reform, Revolution, and ReInvention

LASC-Thought, Language, and Culture; Global Perspectives

Examines the modern historical roots of China's rise as an international power, from the decline of its last imperial dynasty through the tumults of 20th century social movements to its recent emergence as a global economic power. Offered every other year. 3 credits

HI 255 Faculty-led Study Abroad: China Cultural Immersion

LASC-Thought, Language, and Culture; Global Perspectives

Experientially based immersion in the culture and society of China, consisting of language study, visits to historical and cultural sites, cultural immersion activities in local life, and the opportunity to engage with Chinese students.

Offered every other year.

HI 257 Political Terrorism in Historical Perspective

A comparative approach to the terrorist movements of the nineteenth and twentieth centuries, concentrating on the European groups.

Offered every 2 years. 3 credits.

HI 258 Russia Since the Stalin Era

An analysis of the major political, economic and diplomatic developments in the (former) Soviet Union since the death of Stalin; the formation of the Commonwealth of Independent States.

Offered every 2 years. 3 credits.

HI 260 Egypt Since 1798

A discussion of Napoleon's occupation of Egypt, the rise of Muhammad Ali, Suez Canal, British Occupation, Egyptian Nationalism, Nasser's Revolution.

Offered every 3 years. 3 credits.

HI 261 Middle East History I

LASC-Global Perspectives; Thought, Language, and Culture

The rise and expansion of Islam: the Caliphate, Muslim religion, civilization, and its impact on the West, decline of medieval Islam.

Offered every 2 years. 3 credits.

HI 262 Middle East History II: The Ottoman Empire, 1289-1920

LASC-Global Perspectives; Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 102, EN 102, or EN 250

The Ottoman Empire: expansion, institutions, impact on Europe, decline of the Empire.

Offered every 2 years, 3 credits,

HI 263 US - Middle East Relations

LASC-Global Perspectives; United States and Its Role in the World

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

Course will discuss the influence the Middle East has had on US policy since US independence to the present.

Offered every 2 years. 3 credits.

HI 264 American Constitutional Law

American Constitutional Law; civil liberties, rights of criminal defendants, Federal-state relations, interpreting the Constitutions.

Offered every 2 years. 3 credits.

HI 267 US – Latin American Relations

LASC—United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisite: EN 101, EN 102, or EN 250

Will analyze the political, economic, social, and cultural impact of the interactions between and among the governments and people of the US and Latin America.

Offered every year. 3 credits.

HI 270 History of Modern Italy

Study of modern Italy from 1789 to the present.

Offered every three years. 3 credits.

HI 271 Women and Work in Historical Perspective

Prerequisite: HI 103 or HI 104 or HI 111 or HI 112

This course undertakes to examine women's work conditions and the opposition to its continuation in Europe and America, 16th–19th centuries.

Offered every 2 years. 3 credits.

HI 276 Jewish History I

This course constitutes a systematic introduction to the Biblical history of the Jewish people down to the 12th century. Offered every few years. 3 credits

HI 277 Jewish History II

History of the Jewish people from Medieval period to Early Modernity.

Offered every few years. 3 credits

HI 281 History of France II

Prerequisite: HI 103, HI 104

Social, cultural, and diplomatic developments in France from 1750 to present.

Offered every 2 years. 3 credits.

HI 285 History of Baseball

LASC—Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum History of baseball from the first bat-and-ball games to the present.

Offered every 3 years. 3 credits.

HI 290 Health and Healing in America

LASC-Individual and Community Well-Being; Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: EN 101, EN 102 or EN 250

Explores topics in the history of medicine, health, disease, and healing in US history.

Offered every 2 years. 3 credits.

HI 300 The Early National Period of the US: 1783-1829

LASC-United States and Its Role in the World; Thought, Language, and Culture

Prerequisite: HI 111

The Confederation, Constitution, the emergence of political parties, and the rise of American nationality.

Offered every 3 years. 3 credits.

HI 302 Medieval History

Prerequisite: HI 103

Cultural, social, and diplomatic European history of the Middle Ages from fall of the Roman Empire until the rise of the Renaissance.

Offered every 3 years. 3 credits.

HI 305 Ancient History

Prerequisite: HI 103

The history, culture, and politics of ancient Greece and Rome.

Offered every 2 years. 3 credits.

HI 306 Renaissance and Reformation

Prerequisite: HI 103

Intellectual and cultural history of Europe from the middle of the thirteenth to the middle of the sixteenth century.

Offered every 3 years. 3 credits.

HI 308 Europe in the Age of Revolution and Nationalism: 1789-1870

Prerequisite: HI 103 or HI 104

The French Revolution, Napoleon, Congress of Vienna; nationalism, liberalism, socialism; Second French Empire; German and Italian unification.

Offered every 2 years. 3 credits.

HI 310 Massachusetts History

Prerequisites: HI 111 or HI 112

A survey of Massachusetts history from its colonial origins to the present era, including the social, economic, political, constitutional development of state history and culture.

Offered every year. 3 credits.

HI 312 Twentieth Century Europe I

Prerequisites: HI 103 or HI 104

The politics and economics of WW I; the pattern of restlessness between the wars in the rise of dictatorship in Germany, Italy, and Spain; the regimentation of economic control.

Offered every 2 years. 3 credits.

HI 313 Twentieth Century Europe II

Prerequisites: HI 103 or HI 104

Politics and diplomacy of World War II; the dynamics of the rebirth of Europe since VE Day. The effects of total

war upon Europe.

Offered every 2 years. 3 credits.

HI 314 Twentieth Century Middle East History

LASC - Global Perspectives; Thought, Language, and Culture; Diversity Across the Curriculum

Prerequisite: HI 103 or HI 104 or HI 105 or HI 111 or HI 112 or HI 261

The Young Turk Revolution, division of Ottoman Empire in World War I; rise of new states; the Arab-Israeli conflict. Offered every 2 years. 3 credits.

HI 316 American-Russian Relations 1781 - Present

Prerequisite: HI 104 or HI 105 or HI 111 or HI 112

An analysis of American-Russian relations from their inception to the present, stressing the period since 1917. Offered every 2 years. 3 credits.

HI 317 The US and East Asia

Prerequisite: HI 104 or HI 105 or HI 111 or HI 112

An examination of the American role in East Asia, focusing upon American-Chinese relations, American-Japanese relations, and the Indo-China conflict.

Offered every 3 years. 3 credits.

HI 319 Material Culture

Focuses on the way scholars use and analyze objects in historical, social and cultural content. Offered every 2 years.

HI/PO 320 Citizen Nation

LASC—Constitutions; Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisites: HI 111 or HI 112, EN 101, EN 102 or EN 250

Explores the history and meaning of citizenship in the United States, including discrimination, rights struggles and changing citizenship criteria.

Offered every 3 years. 3 credits.

HI 321 Museums and Society

Course on the history of museums and their development as a major space for public history and memory. Offered every 2 years.

HI/PO 322 Nationalism

LASC—Global Perspectives; Human Behavior and Social Processes; Diversity Across the Curriculum Examines the theories of nationalism, the development of the modern nation-state, and its effect on global politics. Offered every 3 years.

HI/PO 323 Empire

Prerequisite: HI 103 and HI 104

Theories and models of colonization, the reaction of colonized peoples, and the way historians analyze imperialism from 1400 to 1920's.

Offered every three years. 3 credits.

HI/PO 330 Politics of the Middle East I

Prerequisite: HI 104 or HI 105 or HI 111 or HI 112 or PO 101 or HI 261 or HI 314

Discusses governments and politics of eastern Arab countries, Turkey, Iran, and Israel. International rivalries in the area are also discussed.

Offered every year. 3 credits.

HI 333 Women in Latin America

Examines the roles of women in diverse societies including Mexico, Brazil and Caribbean nations. Emphasis on the modern period.

Offered every 3 years. 3 credits.

HI 335 Imperial Crossroads of Modern East Asia

LASC-Thought, Language, and Culture; Global Perspectives

Examines East Asian history at the crossroads of Chinese, Japanese, Russian, and Korean colonial and nationalist movements in a region call Manchuria, presently China's northeast border with Russia, Korea, and Mongolia. Offered every other year. 3 credits

HI 337 Travels in Asia

LASC-Thought, Language, and Culture; Global Perspectives

Travels in Asia examines modern East Asian history through the lens of Chinese, Japanese, European, and American travel narratives from the seventeenth through the twentieth centuries.

Offered every other year. 3 credits

HI 345 Religions in America

LASC—Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisites: HI 111, HI 112, EN 101, EN 102 or EN 250

Considers topics in American religious history and explores religious diversity in the past and in contemporary United States.

Offered every 3 years. 3 credits.

HI 349 America on Film

Prerequisite: HI 111 or HI 112

This course examines the origins and nature of the U.S. film industry and how it uses and abuses history from 1893 to the present.

Offered every 2 years. 3 credits.

HI 350 Native American Women

Prerequisite: HI 205 or equivalent

Examines Indian women from the time of European contact to the modern era. Emphasizes culture, community and arenas of power.

Offered every 3 years. 3 credits.

HI 351 Age of Jackson

LASC-United States and Its Role in the World; Thought, Language, and Culture

Prerequisites: HI 111 or HI 112

Political, social, economic, and intellectual developments in the second quarter of the nineteenth century. Offered every 3 years. 3 credits.

HI 352 Civil War and Reconstruction

Prerequisite: HI 111

Sectionalism, slavery, and modern industrial warfare as well as their impact on the political and racial fabric of America.

Offered every 2 years. 3 credits.

HI 353 The Age of Reform: 1877-1920

Prerequisites: HI 111, HI 112

An analysis of the transformation of America, including reform response to the Gilded Age's industrialization, urbanization, and immigration patterns.

Offered every 2 years. 3 credits.

HI 356 The History of the Cold War

LASC-United States and Its Role in the World

Prerequisites: HI 104 or HI 105 or HI 112

The origins of the Cold War, American, Soviet and Chinese foreign policies, arms control negotiations and future prospects.

Offered every 3 years. 3 credits.

HI 366 American Revolutionary Period

LASC-Thought, Language, and Culture; United States and Its Role in the World

Prerequisites: Consent of instructor

Basic problems between English colonies and mother country, military aspects of the American Revolution, Confederation Period, making of the Constitution.

Offered every 2 years. 3 credits.

HI/PO 380 American Foreign Policy Since the Cold War

LASC—Human Behavior and Social Processes; United States and Its Role in the World Prerequisite: PO 101 or HI 112 or HI 212

Instruments of American foreign policy; major foreign policy developments since 1989.

Offered every 2 years. 3 credits.

HI 381 The First World War

The origins, course, and consequences of the First World War.

Offered every three years. 3 credits.

HI 400 Independent Study in History

Prerequisite: Consent of instructor

Special topics for advanced research and study under the guidance of a faculty member.

Offered every year. 1-3 credits.

HI 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

HI 411 The Historian's Craft

Prerequisites: HI 103, HI 104, HI 111, HI 112

A methods course providing hands-on exploration of American history as both a professional field and a scholarly discipline.

Offered every year. 3 credits.

HI 420 Seminar in American Constitutional History

Prerequisite: Consent of instructor

Reading, research and discussion on a specially selected phase of American constitutional development; an original paper of significant scholarship is required.

Offered every 3 years. 3 credits.

HI 421 Seminar in English Constitutional History

Reading, research and discussion on a phase of English constitutional development; an original paper of significant scholarship is required.

Offered every 3 years. 3 credits.

HI 422 Seminar in Ancient Constitutional History

Prerequisite: Consent of instructor

Reading, research and discussion on a phase of ancient constitutional development; an original paper of significant scholarship is required.

Offered every 3 years. 3 credits.

HI 430 European History and Historians

Prerequisite: Consent of instructor

The study of Europe's major schools of historical thought with emphasis on how Europe's history has been written. Offered every 3 years. 3 credits.

HI 435 Issues in Modern Middle East

Prerequisite: HI 261 or HI 314 or HI 330

Emphasizes reading, research and writing. Students will choose issues, research them, make a class presentation, then develop the presentation into a paper.

Offered every 3 years. 3 credits.

HI/PO 440 Internship in History

Prerequisite: Consent of instructor

Internships in museums, archives, government agencies, etc. at beginning professional level in cooperating institutions under joint supervision of agency and faculty.

Offered every year. 3-6 credits.

HI 450 Advanced Special Topics in History

Advanced special topics in history, course may be taught as an upper level seminar. Offered variously.

HI 460 Senior Research Seminar in History

LASC - Major Capstone

Prerequisite: Successful completion of HI 411, and EN 102 or EN 250

Capstone research, writing and portfolio seminar for seniors in the history major; students produce a substantive original research paper.

Offered every year. 3 credits.

HI 470 Senior Thesis in History

LASC - Major Capstone

Prerequisite: Successful completion of HI 411, and EN 102 or EN 250

History major capstone option for students who intend to write senior thesis in history.

Offered every year. 3 credits.



Music

Department of Visual and Performing Arts

Requirements for a Major in Visual and Performing Arts, concentration in Music (See Visual and Performing Arts Department for a complete listing of requirements and courses)

Aligning itself with the evolving needs of the current arts world, Worcester State University offers its arts students a Major in Interdisciplinary Visual and Performing Arts, one of the few interdisciplinary arts majors in the country. With this major, students go beyond the regular art, music and theatre coursework to understand the larger world of Visual and Performing Arts. WSU's Visual and Performing Arts major allows students to gain an interdisciplinary view of the arts while also gaining an in-depth knowledge of their preferred art form

Students who select a VPA Major also select a concentration in Art, Music or Theatre. Core courses promote critical thinking, and prepare students intellectually and creatively to complete their capstone/senior thesis projects and launch careers in the arts. Students apply their coursework to the production, performance, and critical study of creative work through a multitude of exhibit and performance opportunities.

Requirements for a Minor in Music

(See Visual and Performing Arts Department for a complete listing of courses)



Faculty

Elena C. Cuffari, Assistant Professor (2014)

B.A., Swarthmore College; Ph.D., University of Oregon

Daniel C. Shartin, Professor (1993)

B.A., M.A., Ph.D., University of California, Los Angeles

Henry C. Theriault, Professor, Department Chair (1998)

B.A., Princeton University; Ph.D., University of Massachusetts

Kristin B. Waters, Professor (1999)

A.B., Bard College; M.A., Ph.D., University of Connecticut

The study of philosophy helps students to develop insights into the nature of individuals, societies, and values, and it helps them to think critically about themselves and the world around them. By studying philosophical works from the past and present, students engage theories about such central concepts as personhood, justice, gender, knowledge, and science.

Requirements for a Minor in Philosophy: 18 credits, including:

PH 260	Philosophy of Science	
and at least one of:		

PH 101 Ancient Western Philosophy

PH 102 History of Modern Western Philosophy, 1600-1800

PH 201 19th Century European Philosophy

PH 202 Selected Topic in 20th – 21st Century Philosophy

Requirements for a Minor in Philosophy and Law: 18 credits, including:

PH 231 Philosophy of Law PH 240 Political Theory

A minimum of one course in logic:

PH 110 Critical Thinking PH 115 Formal Logic I

A minimum of one course in ethics:

PH 130 Ethics: Human Values and Conduct

PH 131 Medical Ethics PH 132 Business Ethics

PH 133 Social and Political Ethics

A minimum of one course in the history of philosophy:

PH 101 Ancient Western Philosophy

PH 102 History of Modern Western Philosophy, 1600-1800

PH 201 19th Century European Philosophy

PH 202 Selected Topic in 20th – 21st Century Philosophy

Any elective philosophy course if sixth course is not from one of the lists above. Recommended:

PH 151 Race, Gender, and the Law

PH 215 Formal Logic II

PH 241 Genocide and Human Rights PH 251 Mass Violence Against Women

PH 260 Philosophy of Science PH 360 Philosophy of History

Minors should contact the Chair of the Philosophy Department to arrange for departmental advising, and they should select their philosophy courses in consultation with their departmental advisor. Advising can include support for a student's graduate, law, or other professional school application process.

Philosophy Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

PH 100 Introduction to Philosophy

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

An introduction to the fundamentals of philosophy: its vocabulary, problems, and methods.

Offered every year. 3 credits.

PH 101 Ancient Western Philosophy

An introduction to fundamental topics in Western philosophy through works by philosophers including Plato and Aristotle.

Typically offered at least every two years. 3 credits.

PH 102 History of Modern Western Philosophy, 1600-1800

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

Engages central topics of Western philosophy through study of important modern philosophers, typically from Descartes through Kant.

Typically offered at least every two years. 3 credits.

PH 110 Critical Thinking

LASC-Thought, Language, and Culture

An examination of critical thinking through informal logical analysis of argument styles, including identification of fallacious arguments.

Offered every year. 3 credits.

PH 115 Logic 1

LASC-Quantitative Reasoning

A study of introductory symbolic (formal) logic, covering sentential logic and the foundations of predicate logic. Offered every year. 3 credits.

PH 130 Ethics: Human Conduct and Values

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

An examination of the nature of morality and value and their place in the world of human action. *Offered every year. 3 credits.*

PH 131 Medical Ethics

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

An introductory-level examination of various ethical issues such as abortion, euthanasia, cloning and other genetics issues, access to healthcare, race and healthcare, and women's health.

Typically offered at least every three years. 3 credits.

PH 132 Business Ethics

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

An introduction to ethical theory and issues such as truth-in-advertising, product liability, affirmative action, employer and employee rights and duties, whistle blowing, and corporate responsibility.

Typically offered at least every two years. 3 credits.

PH 133 Social and Political Ethics

LASC—Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum Investigates major social and political theories and their applications to selected problems of justice. Typically offered every two years. 3 credits.

PH 150 Women in Western Ideas

LASC—Human Behavior and Social Processes; Thought, Language, and Culture; Diversity Across the Curriculum Investigates the concept of "woman" from ancient Greece to the present.

Typically offered every two years. 3 credits.

PH 151 Race, Gender and the Law

LASC - Constitutions; Thought, Language, and Culture; United States and Its Role in the World

A philosophical approach to issues of race and gender as expressed in legislation, judicial interpretation, enforcement, and public policy.

Typically offered at least every three years. 3 credits.

PH 152 Philosophy of Love and Sex

LASC—Human Behavior and Social Processes; Individual and Community Well-Being; Diversity Across the Curriculum

Investigates the concepts of love and sex and structural and discursive factors contributing to our daily experiences of these phenomena.

Typically offered every year. 3 credits.

PH 163 Philosophy on Television

LASC-Thought, Language, and Culture; United States and Its Role in the World

An introduction to philosophy through philosophical writings on popular television shows.

Typically offered at least every three years. 3 credits.

PH 170 Ancient Chinese Philosophies in a Cultural Perspective

LASC-Global Perspectives; Thought, Language, and Culture

Examines ancient Chinese philosophies of Taoism, Confucianism, Buddhism, and neo-Confucianism in the context of contemporary developments in China; Communism, Capitalism, and Western influences considered. *Typically offered every two years. 3 credits.*

PH 171 Buddhism: Theory and Meditative Experience

LASC-Global Perspectives; Thought, Language, and Culture

Examines the origins, texts, principles, and practices of Buddhist philosophy including the Four Noble Truths and Eightfold Path for individual practice.

Typically offered at least every three years. 3 credits.

PH 172 Asian Philosophies and Contemporary Perspectives

LASC-Global Perspectives

Studies the philosophies of India, China, Japan, and the vitality of ancient traditions in a time of cultural change: Buddhism, Taoism, Confucianism, Jainism, Hinduism and Islam.

Typically offered every year. 3 credits.

PH 177 Introduction to Latin American Philosophy

LASC-Thought, Language, and Culture; Global Perspectives; Diversity Across the Curriculum

An introduction to many of the principal texts, thinkers, and debates within Latin American philosophy. Typically offered every two years. 3 credits.

PH 178 Africana Philosophy

LASC—Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum Explores philosophy of the African diaspora in African, African American, and Caribbean writings.

Typically offered every two years. 3 credits.

PH 180 Sports and Philosophy

LASC-Individual and Community Well-Being

Examines key ethical and other issues in sports, including competition, fair play, sportspersonship, drug use, race and gender, and violence.

Typically offered at least every three years. 3 credits.

PH 190 Special Topics in Philosophy

LASC-Varies by topic. See current course listing for specific LASC area approved.

An introductory philosophy course on a current or specialized topic.

Typically offered at least every three years. 3 credits.

PH 193 Special Topics in Philosophy for First-Year Students

All "193" courses are approved for LASC, but area(s) of approval might vary by section. See current course listing for specific LASC area approval.

An introductory course covering a topic of special interest to first-year students. Offered only as a First-Year Seminar. Typically offered at least every three years. 3 credits.

PH 201 19th Century European Philosophy

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

Engages the radical new philosophical ideas developed on the European Continent in the 19th Century, beginning with Hegel.

Typically offered at least every three years. 3 credits.

PH 202 Selected Topic in 20th - 21st Century Western Philosophy

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

Addresses a specific topic in 20th – 21st Century Western Philosophy. The topic will be indicated in each PH 202 registration listing.

Typically offered at least every three years. 3 credits.

PH 215 Logic 2

LASC-Quantitative Reasoning

Prerequisite: PH 115

A study of intermediate symbolic (formal) logic, including multi-placed predicates and identity.

Typically offered at least every three years. 3 credits.

PH 220 Philosophy of Mind

Prerequisite: EN 102

An investigation of the relationship between mental processes and physical states, and the implications for such issues as personal identity and free will.

Typically offered at least every three years. 3 credits.

PH 221 Existentialism and Phenomenology

LASC-Thought, Language, and Culture; Global Perspectives

Examines the Existentialist movement of the first half of the 20th Century.

Typically offered at least every three years. 3 credits.

PH 225 Philosophy of Language

LASC-Thought, Language, and Culture; Individual and Community Well-Being

A survey of theories of reference, truth, word and sentence meaning, ordinary language philosophy, embodied communication, and/or dialogic ethics.

Typically offered at least every three years. 3 credits.

PH 231 Philosophy of Law

LASC—Constitutions; Human Behavior and Social Processes; United States and Its Role in the World; Diversity Across the Curriculum

Prerequisite: EN 102

Survey of the legal theories and issues and the philosophical bases of key legal and related political concepts. *Typically offered at least every three years. 3 credits.*

PH 240 Political Theory

LASC-Thought, Language, and Culture; United States and Its Role in the World

Investigates concepts including political power, equality, revolution, liberties, slavery, socialism, liberalism, patriarchal power, race, and gender.

Typically offered at least every three years. 3 credits.

PH 241 Genocide and Human Rights

LASC-Global Perspectives; United States and Its Role in the World

Treats the ethical, political, and other dimensions of systematic mass violence through case studies and general theoretical analyses.

Typically offered at least every three years. 3 credits.

PH 242 Race, Nation, Class, Gender, and Sexuality

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Examines these five important social categories that define the political, legal, economic, and cultural contexts in which we live.

Typically offered at least every three years. 3 credits.

PH 250 Global Feminisms

LASC-Global Perspectives; Thought, Language, and Culture

Investigates the theoretical underpinnings of women's movements for equal rights around the globe. Typically offered at least every 3 years. 3 credits.

PH 251 Mass Violence Against Women

LASC-Global Perspectives; United States and Its Role in the World

A philosophy-based, interdisciplinary course examining historical and contemporary mass violence against women. Typically offered at least every three years. 3 credits.

PH 260 Philosophy of Science

LASC-Human Behavior and Social Processes; Thought, Language, and Culture

Critically investigates such questions as: What distinguishes sciences from pseudo-sciences? When is a theory confirmed? What is a law of nature?

Typically offered at least every two years. 3 credits.

PH 261 Philosophy of Religion

An examination of the roles of faith and reason in beliefs concerning a deity and in such issues as the problem of evil. Typically offered at least every two years. 3 credits.

PH 263 Film and Philosophy

LASC-Global Perspectives; Thought, Language, and Culture

An intermediate study of films presenting philosophical ideas and of philosophical ideas about film.

Typically offered at least every three years. 3 credits.

PH 264 Philosophy of Education

Examines philosophical approaches to education through readings of various authors such as Plato, Rousseau, Wollstonecraft, and Dewey.

Typically offered at least every three years. 3 credits.

PH 290 Advanced Special Topics in Philosophy

LASC-Varies by topic. See current course listing for specific LASC area approved.

A treatment of a current or specialized topic for students beyond the introductory level.

Typically offered at least every three years. 3 credits.

PH 301 Individual Figure in the History of Western Philosophy

Prerequisite: EN 102

Studies a specific Western philosopher. The philosopher for a given semester will be indicated in the course

registration listings.

Typically offered at least every three years. 3 credits.

PH 302 Topics in American Philosophy

Prerequisite: EN 102

Treats a selected set of topics in the history of philosophy in the United States.

Typically offered at least every three years. 3 credits.

PH 320 Topics in Metaphysics and Epistemology

Prerequisite: EN 102

A study of selected topics in theories of mind, language, and knowledge.

Typically offered at least every three years. 3 credits.

PH 340 Selected Topic in Social and Political Philosophy

Prerequisite: EN 102

Explores a particular social and political issue, as indicated in the registration course listing, from a philosophical

perspective.

Typically offered at least every three years. 3 credits.

PH 360 Philosophy of History

LASC-Global Perspectives; United States and Its Role in the World

Prerequisite: One semester of philosophy

Explores the different philosophical approaches to the study and writing of history and the nature of historical change and development.

Typically offered at least every three years. 3 credits.

PH 361 Philosophy of Art

Prerequisite: One semester of philosophy

An investigation of the nature of aesthetic experience. Typically offered at least every three years. 3 credits.

PH 390 Independent Study

Prerequisite: Consent of the instructor

An individual or small group student study, under the guidance of a faculty member, of a special philosophical topic not covered in other course offerings.

3 credits.

PH 391 Internship in Philosophy

Prerequisite: EN 102

Provides an opportunity for mid-level or advanced students to increase their philosophical knowledge and understanding.

3 credits.

PH 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.



Political Science

Department of History and Political Science

Faculty

Nathan Angelo, Assistant Professor (2016)

B.A., Hofstra University; M.A., New York University and City University of New York; Ph.D., New School for Social Research

Joseph Preston Baratta, Professor (1999)

B.A., St. John's College; M.A., M.A.T., Ph.D., Boston University

Erika Briesacher, Assistant Professor (2012)

B.A., Illinois Wesleyan University; M.A., Southern Illinois University, Edwardsville;

Ph.D., Kent State University

Anthony Dell'Aera, Assistant Professor (2016)

B.A., Trinity College; M.A., Ph.D., Brown University

Tona J. Hangen, Associate Professor (2008)

B.S., Massachusetts Institute of Technology; Ph.D., Brandeis University

Najib E. Saliba, Professor (1971)

A.B., Miami University; M.A., Ph.D., University of Michigan

Robert W. Smith, Associate Professor (2007)

B.A., Syracuse University; M.A., Ph.D., College of William and Mary

Requirements for a Minor in Political Science: 18 credits

PO 101 Principles of Political Science Political Science electives: 15 credits

Requirements for a Minor in Pre-Law: 22 credits

PO 102 Constitutions: US and Massachusetts
PO 103 Fundamentals of Legal Research

2 of these 3 courses:

HI/PO 218 US Constitutional History I HI/PO 219 US Constitutional History II HI 241 English Constitutional History

Seminar in Constitutional History HI 420, 421, 422 or as an

HI 400 Independent Study

9 credits from selected listing or substituted with advisor's Pre-Law permission.

Political Science Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

PO 101 Principles of Political Science

LASC-Human Behavior and Social Processes; Global Perspectives; Diversity Across the Curriculum

An introduction to political analysis; study of the concepts of power, legitimacy, natural law, justice and liberty. Offered every year. 3 credits.

PO 102 Constitutions: US and Massachusetts

LASC-Constitutions; United States and Its Role in the World

Examines the origins and development of the United States and Massachusetts Constitutions. Meets Massachusetts General Laws, Chapter 73, Sec 2A requirement.

Offered every year. 3 credits.

PO 103 Fundamentals of Legal Research

Locating the text of statutes, regulations and court decisions (state and national) for a particular date and on specific subjects.

Offered every 3 years. 1 credit.

PO 193 Special Topics in Political Science for First-Year Students

Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

PO/HI 201 International Relations I

LASC-Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, EN 101, EN 102 or EN 250

Theory and practice of international security (realism and internationalism) and international political economy (liberalism and protectionism) in their historical context.

Offered every year. 3 credits.

PO/HI 202 International Relations II

LASC-Global Perspectives; United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: PO 101 or HI 103 or HI 104, EN 101, EN 102, or EN 250

The promise and problems of globalization (spread of free market capitalism and political democracy).

Offered every year. 3 credits.

PO 210 American Government

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Examines our national government and politics.

Offered every other year. 3 credits.

PO/HI 211 History of US Foreign Policy I

LASC-United States and Its Role in the World

Prerequisite: HI 111 or HI 112

Colonial origins to the era of the Spanish-American War. The sources and development of US foreign policy in that period

Offered every other year. 3 credits.

PO/HI 212 History of US Foreign Policy II

LASC-United States and Its Role in the World

Prerequisite: HI 111 or HI 112

From 1900 to recent times; US foreign policy traditions and the challenges of great power status.

Offered every other year. 3 credits.

PO 213 The Modern Presidency

LASC-Human Behavior and Social Processes; United States and Its Role in the World

This course will examine the evolution of the presidency. Special attention is given to those presidents who have expanded the office.

Offered every 3 years. 3 credits.

PO 215 State and Local Government

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Examines sub-national governments and politics in the United States; the structure and problems of these governments.

Offered every year. 3 credits.

PO 216 Political Parties and Pressure Groups

LASC-United States and Its Role in the World; Human Behavior and Social Processes

Examines the organization, functions, and methods of political parties; the role of interest groups in the American political process.

Offered every year. 3 credits.

PO 217 The Legislative Process

The nature and function of the US Congress, including legislative campaigns, politics, and major problems of Congress. Offered every 3 years. 3 credits.

PO/HI 218 US Constitutional History I

LASC- Constitutions; Human Behavior and Social Processes; United States and Its Role in the World

The development of American constitutional history to 1865.

Offered every 2 years. 3 credits.

PO/HI 219 US Constitutional History II

LASC - Constitutions; Human Behavior and Social Processes; United States and Its Role in the World

The development of the U.S. Constitution since 1865.

Offered every 2 years. 3 credits

PO 220 Comparative Politics I

LASC-Global Perspectives; Human Behavior and Social Processes

A comparative study of the politics and governments of Great Britain, Germany, and Russia.

Offered every 3 years. 3 credits.

PO 221 Comparative Politics II

LASC-Global Perspectives; Human Behavior and Social Processes

A comparative study of the political and social systems of South Africa and India, including recent trends in their political development.

Offered every 3 years. 3 credits.

PO/HI 241 English Constitutional History

LASC-Global Perspectives; Human Behavior and Social Processes

Development of English Constitution from Magna Carta through revolution, supremacy of Parliament, reform acts, entry into European Union, and devolution.

Offered every 2 years. 3 credits.

PO/HI 259 Crisis Management

A study of the decision making process regarding crisis situations, i.e., the role of the President, Congress, Intelligence Community and the Military.

Offered every 2 years. 3 credits.

PO/HI 320 Citizen Nation

LASC—Constitutions; Thought, Language, and Culture; United States and Its Role in the World; Diversity Across the Curriculum; Writing Across the Curriculum

Prerequisites: HI 111 or HI 112, EN 101, EN 102 or EN 250

Explores the history and meaning of citizenship in the United States, including discrimination, rights struggles and changing citizenship criteria.

Offered every 3 years. 3 credits.

PO/HI 322 Nationalism

LASC - Global Perspectives; Human Behavior and Social Processes; Diversity Across the Curriculum

Examines the theories of nationalism, the development of the modern nation-state, and its effect on global politics. Offered every three years. 3 credits.

PO/HI 323 Empire

Prerequisite: Hi 103 and HI 104

Theories and models of colonization, the reaction of colonized peoples, and the way historians analyze imperialism

from 1400 to 1920's.

Offered every three years. 3 credits.

PO/HI 330 Politics of the Middle East I

Prerequisite: PO 101 or HI 261 or HI 314

Discusses governments and politics of eastern Arab countries, Turkey, Iran, and Israel. International rivalries in the

area are also discussed.

Offered every year. 3 credits.

PO/HI 380 American Foreign Policy Since the Cold War

LASC-United States and Its Role in the World; Human Behavior and Social Processes

Prerequisite: PO 101 or HI 112 or HI 212

Instruments of American foreign policy; major foreign policy developments since 1989.

Offered every 2 years. 3 credits.

PO 400 Independent Study in Political Science

Prerequisite: Consent of Instructor

Special topics for advanced research and study under the guidance of a faculty member.

Offered every year. 1 - 3 credits.

PO 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

PO/HI 440 Internship in Political Science

Prerequisite: Consent of Instructor

Internships in museums, archives, government agencies, etc. at beginning professional level in cooperating institutions under joint supervision of agency and faculty.

Offered every year. 3 - 6 credits.

PO 450 Special Topics in Political Science

Selected areas of interest to students and instructors.

Offered every 3 years. 3 credits.



Psychology Department of Psychology

Faculty

Amy Cota-McKinley, Professor (2002)

B.A., University of Wisconsin, Milwaukee; M.S., Jacksonville State University;

Ph.D., Colorado State University

Lori J. Dawson, Professor (1995)

B.A., Suffolk University; M.A. Ph.D., State University of New York, Albany

Charles R. Fox, Professor (2013)

O.D., New England College of Optometry; B.A., M.A., St. John's University;

Ph.D., Brandeis University

Kathryn Frazier, Assistant Professor (2016)

B.A., Scripps College; M.A., Ph.D., Clark University

Bernard J. Guarini, Associate Professor (1965)

B.S., College of the Holy Cross; M.A., Clark University; M.A., C.A.G.S., Assumption College

Benjamin Jee, Assistant Professor (2015)

B.Sc. University of Toronto; Ph.D. University of Illinois, Chicago

Bonnie G. Kanner, Professor, Department Chair (1997)

B.A., M.S., C.A.S., State University of New York, Albany; Ph.D. Clark University

Ryan E.B. Mruczek, Assistant Professor (2014)

B.S., Biological Science, University of Rochester; Ph.d., Neuroscience, Brown University

Gail Racicot, Visiting Assistant Professor

B.S., M.Ed., M.Ed./C.A.G.S., Worcester State University; Ed.D., American International College

Nicole Rosa, Assistant Professor (2014)

B.A., Stonehill College; M.S.W., Boston College; M.A., Ph.D., Psychology, Brandeis University

Brandi Silver, Professor (2003)

B.S., M.S., Ph.D., Colorado State University

Emily Soltano, Professor (1999)

B.A., Ph.D., State University of New York, Albany

Champika K. Soysa, Professor (2003)

B.A., Mount Holyoke College; M.A., Ph.D., Clark University

Colleen Sullivan, Assistant Professor (2012)

B.S. Frostburg State University; M.A., Ph.D., University of Maryland, Baltimore

Seth Surgan, Associate Professor (2006)

B.A., University of North Carolina, Chapel Hill; M.A., Ph.D., Clark University

Marc J. Wagoner, Associate Professor (2004)

B.A., Morehouse College; Ph.D., University of Minnesota

Psychology courses acquaint students with basic principles of learning, motivation, development, and interpersonal relationships, providing a foundation for effective living and a background for a variety of career opportunities. The major provides students with a wide range of marketable and graduate study skills that include interpersonal awareness, problem-solving, research, and computer literacy.

Baccalaureate degree holders are prepared for entry level positions in a broad range of areas including health and social services, mental health, organizational leadership and management, community relations, education, human resources, program development, public affairs, social science research, and programs for women. Psychology is recognized in Massachusetts as a certificate academic major for Early Childhood and Elementary Education students. Those who major in psychology are able to develop an expertise in one of the Department's areas of concentration: Mental Health Services, or Developmental Process. Those with bachelor's degrees in psychology work in the same fields as do psychologists with graduate degrees. Some of the department's alumni:

- Counsel or teach people in group homes, nursing homes, and clinics
- Are case managers in insurance companies
- Plan and execute research
- Help young people in juvenile courts, schools and recreational programs
- Are behavior specialists
- · Counsel drug addicts and victims of abuse

The department provides solid preparation for graduate work in psychology by helping students develop specializations and providing opportunities for the development of excellent research skills. The department offers an HONORS program and an internship program and operates a state-of-the-art computer laboratory. Psi Chi, the national honor society in psychology, is available to outstanding students who major in the discipline.

The **minor** program offers an opportunity for students wishing to develop a core understanding of psychology. The minor is not meant for students whose primary interest is the study of psychology; instead, it is a complement to other fields of study where knowledge of psychology and its methods would be beneficial.

Admission Requirements: Admission is open to any student who is interested in psychology and who can maintain a 2.0 grade point average in the required and elective psychology courses.

Standards for Minimum Academic Performance in the Psychology Major: The Psychology major requires a minimum grade of C- in all courses applied to the major. Courses may be repeated. The C- minimum grade does not apply to psychology courses beyond those applied to the major (four specified, four from specified areas and four elective courses). Students must maintain a minimum overall GPA of 2.0 in the major, consistent with Worcester State University policy.

Requirements for a Major in Psychology: The Psychology major requires successful completion of 12 courses in Psychology. Four of these courses are specific core requirements; four are from specified areas and the remaining four are electives. The minimum of 37 credits must include the following four core courses:

PS 101 General Psychology
PS 275 Psychological Statistics
PS 276 Research Methods
PS 307 Applied Research Methods

and at least <u>four</u> courses (12 credits) from the following, including one from each of <u>four</u> different areas:

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Area 1 — Developmental
         1 — PS 210
                        Developmental Psychology
         2 — PS 312
                        Psychology of Adolescence
         3 — PS 322
                        Psychology of Aging
Area 2 — Social Psychology
         1 — PS 250
                        Social Psychology
         2 — PS 252
                        Applied Social Psychology
Area 3 — Personality and Abnormal Psychology
         1 — PS 330
                        Theories of Personality
         2 — PS 335
                        Abnormal Psychology
         3 — PS 340
                        Introduction to Psychometrics
Area 4 — Learning and Cognition
         1 — PS 325
                        Psychology of Learning
         2 — PS 345
                        Cognitive Psychology
Area 5 — Biopsychosocial Processes
         1 — PS 280
                        Sensation and Perception
         2 — PS 380
                        Physiological Psychology
         3 — PS 222
                        Introduction to Health Psychology
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and 12 credits in psychology electives. At least three courses (nine credits) must be at a 300 and/or 400 level, and all three courses must be taken at Worcester State University.

Evening Psychology: The required core courses for the Psychology Major may be completed with evening or summer courses. Many core courses are offered in the evening during each academic year as well as some elective courses. Internships and independent study courses, however, are only offered in Fall and spring day courses.

HONORS Program: The HONORS program is designed to increase opportunities for students of outstanding ability to engage in independent work and prepare for more challenging futures. It is especially recommended for students planning to pursue graduate education.

The HONORS project must be completed and presented to the faculty sponsor. Students are required to make an oral presentation on the project in a session open to all faculty and students in the department.

Admission to the HONORS program is by application. The admission requirements, closing date for application and instructions for completing the application process may be obtained from the Department Office.

Concentrations: Students may choose to simply major in psychology *without* a particular specialization (by completing the Requirements for a Major in Psychology) or may choose to major in psychology *with* a specialization by completing the requirements for a concentration in Mental Health Services, or Developmental Processes. They may also specialize by completing the requirements for an Interdisciplinary Concentration in Women's Studies.

Requirements for a Major in Psychology, Concentration in Mental Health Services: 40 credits.

This concentration prepares students for graduate school and/or employment in agencies serving the mental health needs of special populations, including people with mental disabilities, addiction, and cognitive, emotional, and behavioral problems. In addition to the four core and four area courses in psychology, the following courses are required:

PS	330	Theories of Personality
PS	335	Abnormal Psychology
PS	340	Introduction to Psychometrics
PS	400	Internship in Psychology (3 hours)
		or PS 318 Behavior Management
		or PS 315 Physical and Sexual Abuse

PS 435	Clinical Psychology
PS 492	Canstone in Mental Health

Requirements for a Major in Psychology, Concentration in Developmental **Processes:** 37 to 43 credits.

This concentration provides background for students planning careers related to developmental disabilities, special education, child and adolescent services, or hospital and nursing home programs for the disabled or aging. Developmental Process is especially recommended for students in education.

The four core and four specified area psychology courses are required plus:

PS	210	Developmental Psychology
PS	312	Psychology of Adolescence
		or PS 322 Psychology of Aging
PS	325	Psychology of Learning
		or PS 345 Cognitive Psychology
PS	380	Physiological Psychology
PS	410	Seminar in Developmental Processes
and three ele	ectives se	lected from the following:
PS	310	Development of Exceptional Children and Youth
PS	318	Behavior Management
PS	320	Development of Thinking and Knowing
PS	355	Social and Personality Development
PS	400	Internship in Psychology

PS 400 Internship in Psychology is recommended for any student who has not had an appropriate fieldwork experience.

Requirements for a Major in Psychology, Interdisciplinary Concentration in Women's Studies: 15 credits. Psychology majors may elect an interdisciplinary concentration in Women's Studies beyond the requirements of the Psychology major. Five courses may be selected from any course with a "WO" prefix, from at least two disciplines.

Minor in Psychology: Students may choose to minor in psychology without a particular specialization (by completing the Requirements for a Minor in Psychology).

Requirements for a Minor in Psychology: The Psychology minor requires successful completion of six courses in Psychology. The minimum 18 credits must include:

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PS 101 General Psychology and 15 credits in psychology electives
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Psychobiology Minor: Psychobiology, the study of human and animal biology and behavior, is an interdisciplinary minor consisting of a total of 6-7 classes (18-24 credits), with significant course contributions from both the Biology and Psychology Departments. Students are required to take courses in Biology and Psychology, which will allow them to explore the link between mind, body, and behavior. Introductory courses include both Biology and Psychology, introducing students to the basics of both disciplines. Advanced courses in both disciplines (delete will) provide an in-depth understanding of the nervous system, evolution biology, cellular physiology, and sensation and perception. Students will have the chance for hands-on learning to facilitate their understanding of the concepts presented in lecture.

All students are eligible to participate in the Psychobiology minor by following either the General Track, or one of two specialized tracks: Biology Major Track or Psychology Major Track. These specialized tracks (delete will) assure that students who major in Biology and Psychology receive an appropriate breadth of experiences within the field of Psychobiology to complement their chosen major.

General Track (Available to all majors except Biology and Psychology) Core (11 credits):

PS 101: General Psychology (3)

BI 116: Animal Biology (4)

PB 200: Introduction to Psychobiology (4)

Electives (10-11 credits): Students must take ONE course from Group A, ONE course from Group B, and ONE course from Group C:

Group A (200-level)

PS 280: Sensation & Perception (3)

BI 200: Human Biology (4)

Group B (300-level Psychology)

PS 325: Psychology of Learning (3)

PS 380: Physiological Psychology (3)

Group C (300-level Biology w/ lab)

BI 315: Neuroscience (4)

BI 360: Animal Behavior (4)

Capstone (2 credits):

PB 400: Capstone in Psychobiology (2)

Total Credits: 23-24

Biology Major Track (Only available to Biology majors)

Core/Foundation (16 credits):

PS 101: General Psychology (3)

PB 200: Intro to Psychobiology (4)

PS 280: Sensation & Perception (3)

PS 325: Psychology of Learning (3)

PS 380: Physiological Psychology (3)

Capstone (2 credits):

PB400: Capstone in Psychobiology (2)

Total Credits: 18

Psychology Major Track (Only available to Psychology majors)

Core/Foundation (20 credits):

BI 116: Animal Biology (4)

PB 200: Intro to Psychobiology (4)

BI 200: Human Biology (4)

BI 315: Neuroscience (4)

BI 360: Animal Behavior (4)

Capstone (2 credits):

PB400: Capstone in Psychobiology (2)

Total Credits: 22

Note: Completing this minor also satisfies the LASC requirements of HBSP, NSP w/ Lab (2x), and the capstone requirement.

Sample Timetable for Completion of Degree: Psychology

YEAR ONE

Semester One			
Course No.	Course Name	Credits	
LASC	First-Year Seminar	3	
EN 101	English Composition I	3	
PS101	General Psychology	3	
LASC	The United States and Its Role in the World (USW)	3	
LASC	Global Perspective (GP)	3	
	Semester Subtotal	15	

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
PS Area	200 level Psych area (Not PS205)	3
LASC	Quantitative Reasoning (QR)	3
LASC	Thought, Language, and Culture (TLC)	3
	Semester Subto	al 16
Comments		

YEAR TWO

Semester Three			
Course No.	Course Name		Credits
PS200 level	200 level elective		3
PS200 level	200 level Area class		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Global Perspectives (GP)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	16

Semester Four	•	
Course No.	Course Name	Credits
PS205	Research Methods	3
PS275	Psychological Statistics	4
LASC	Natural Systems and Processes (NSP)	3
LASC	Thought, Language, and Culture (TLC)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	16
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
PS 307	Applied Research Methods	3
PS Area	PS Area class	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six			
Course No.	Course Name	Credits	
PS	PS Area Class	3	
PS	Major Elective	3	
LASC	Creative Arts (CA)	3	
PS	Major Elective	3	
PS	Major Elective	3	
	Semester Subtotal	15	
Comments			

YEAR FOUR

Semester Seven			
Course No.	Course Name	Credits	
LASC/PS	Capstone	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	

Semester Eight			
Course No.	Course Name	Credits	
PS	Major Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	15	
Comments			

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Psychology Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

PB 200 Introduction to Psychobiology

Prerequisites: PS 101; BI 116 or BI 140

Introductory course in Psychobiology that covers topics including neurobiology, evolution, sensory/motor systems, learning and memory, and social behavior.

Offered every year. 4 credit

PB 400 Capstone in Psychobiology

LASC - Capstone

Prerequisites: Senior status; Completion of all other Psychobiology Minor requirements

Seminar covering selected topics in Psychobiology including primary source material readings, laboratory activities, discussion, oral presentation, and written papers.

Offered every year. 2 credit

PS 101 General Psychology

LASC-Human Behavior and Social Processes

Introduction to history of psychology, scientific method; brain/nervous system, development, learning, motivation, sensation/perception, personality, psychopathology, psychotherapy, cognitive processes, social behavior. Offered every year. 3 credits.

PS 193 Special Topics in Psychology for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

PS 210 Developmental Psychology

LASC-Human Behavior and Social Processes

Prerequisite: PS 101

Physical, social, emotional, intellectual, and moral development from conception to adolescence is examined within a framework of various theories.

Offered every year. 3 credits.

PS 222 Introduction to Health Psychology

Prerequisites: PS 101

Introduction to the areas and methods of Health Psychology. Topics include: epidemiology, behavior change, compliance, alternative medicine, healing, chronic illness.

Offered every 2 years. 3 credits.

PS 224 Positive Psychology

Prerequisite: PS 101

Exploration of the psychological research on a fulfilling and flourishing life including happiness, self-esteem, love, goal setting, mindfulness and spirituality.

Offered every other year. 3 credits

PS 250 Social Psychology

Prerequisite: PS 101

The psychological dynamics of social interaction including verbal and nonverbal communication, group dynamics and attitude formation and change.

Offered every year. 3 credits.

PS 252 Applied Social Psychology

Prerequisite: PS 101

Survey of applied social psychology including: psychology in educational, organizational, and legal settings; diversity, environmental, health, media, and consumer issues.

Offered every year. 3 credits.

PS 254 Persuasion

Prerequisite: PS 101

Explores the areas of persuasion, social influence, and compliance gaining in various situations by utilizing psychological theories/approaches to explain behavior.

Offered every year. 3 credits

PS 255 Psychological Foundations of Diversity

Prerequisite: PS 101

Explores the gender, racial/ethnic, multiple-group membership, cultural, social class, religious, disability and sexual orientation facets of diversity.

Offered every 3 years. 3 credits.

PS 260 Psychology of Human Sexuality

Prerequisite: PS 101

Sexuality as a foundation of personality. The wide range of human sexuality is explored; sexual development, roles, attitudes and behaviors.

Offered every 2 years. 3 credits.

PS 261 Couples and and Family Psychology

Prerequisite: PS 101

Couples and family psychology will be explored, focusing on dating, partnering, separation, divorce, intimacy, sexuality, parenting, and aging families.

Offered every year. 3 credit

PS 263 Psychology of Women

Prerequisite: PS 101

Women's psychological development throughout the lifespan will be examined, including female development, achievement, stereotyping, stress, violence and psychological disorders.

Offered every 2 years. 3 credits.

PS 270 Drugs and Behavior

Prerequisite: PS 101

This course will explore the effects of psychotropic drugs on the brain and subsequent effects on behavior.

Offered every year. 3 credits.

PS 275 Psychological Statistics

LASC-Quantitative Reasoning; Quantitative Literacy Across the Curriculum

Prerequisites: PS 101, Score of 3 on math Accuplacer or passing grade in college level math class

Data tabulation; graphing; measurement of central tendency, variability and correlation; hypothesis testing applied to psychological and sociological data. Hand and computer analysis.

Offered every year. 4 credits.

PS 276 Research Methods

LASC-Writing Across the Curriculum

Prerequisites: PS 101, EN 102, PS 275 Psychological Statistics and 3 credits in another 200-level Psychology course Exploration of psychological research methodologies including: scientific method; design, conduction, analysis, and reporting of research; ethical principles and APA format.

Offered every year. 3 credits.

PS 280 Sensation and Perception

Prerequisite: PS 101

Selected sensory and perceptual processes are studied in the context of current theory and research.

Offered every year. 3 credits.

PS 295 Special Topics in Psychology

Prerequisites: PS 101

Selected areas of mutual interest to instructor and students. Topics and prerequisites are announced in advance. Offered every year. 3 credits.

PS 297 Independent Study: Research in Psychology

Prerequisites: PS 101, PS 275 or PS 276, Consent of instructor

Students pursue an area of research interest under faculty supervision. May include assisting faculty with ongoing research. Written report(s) required.

Offered every semester. 1-3 credits

PS 307 Applied Research Methods

LASC-Writing Across the Curriculum

Prerequisites: PS 101, PS 275, PS 276, EN 102

Extension of research design and methods introduced in PS 276 Research Methods, including applied research design, statistical analysis, and scientific writing.

Offered every year. 3 credits.

PS 310 Development of Exceptional Children/Youth

Prerequisites: PS 101, PS 210

Characteristics and needs of children with exceptionalities including behavior retardation, giftedness, physical or sensory disabilities, emotional or social maladiustments.

Offered every semester. 3 credits.

PS 312 Psychology of Adolescence

Prerequisite: PS 101, PS 210

The mental, emotional, social and physical changes of contemporary adolescence are examined with emphasis on family, peer and school influences.

Offered every year. 3 credits.

PS 315 Physical and Sexual Abuse

Prerequisites: PS 101

Etiology, characteristics, consequences, treatment, and prevention of various forms of physical, sexual, and emotional abuse in children, adolescents, and adults.

Offered every 2 years. 3 credits.

PS 318 Behavior Management Techniques

Prerequisites: PS 101

Considers the basic concepts of behavior management, including behavior modification for exceptional and normal populations.

Offered every year. 3 credits.

PS 320 Development of Thinking and Knowing

Prerequisites: PS 101, PS 210

This course will examine human development of thinking and knowing from the Piagetian/Neo-Piagetian, Information Processing and Sociocultural Perspectives.

Offered every year. 3 credits.

PS 322 Psychology of Aging

Prerequisite: PS 101, PS 210

Adulthood and old age are studied with special emphasis on current developmental theories.

Offered every year. 3 credits.

PS 325 Psychology of Learning

Prerequisite: PS 101

Learning as a fundamental concept in understanding behavior; examines principles and theories of learning, emphasizing experimental findings.

Offered every year. 3 credits.

PS 330 Theories of Personality

Prerequisites: PS 101

A survey of major theories of personality. Why people behave as they do is explored through the different theories. Offered every year. 3 credits.

PS 335 Abnormal Psychology

Prerequisite: PS 101

Etiology, dynamics, and treatment of psychopathology and their relation to normal personality are considered from traditional and contemporary perspectives.

Offered every year. 3 credits.

PS 340 Introduction to Psychometrics

Prerequisites: PS 101, PS 275

Methods and instruments used in the evaluation of the psychological attributes of human beings.

Offered every year. 3 credits.

PS 345 Cognitive Psychology

LASC-Writing Across the Curriculum

Prerequisite: PS 101, PS 276, EN 102, PS 275

This course introduces students to areas of cognitive psychology including memory, language processing and decision making.

Offered every year. 3 credits.

PS 355 Social and Personality Development

Prerequisites: PS 101, PS 210

This course will examine social and personality development from Piagetian, Neo-Piagetian and Sociocultural perspectives.

Offered every year. 3 credits.

PS 360 Industrial/Organizational Psychology

Prerequisite: PS 101

A concentration on the work of the psychologist in industry/business and other organizational settings in the public and private sectors.

Offered every year. 3 credits.

PS 365 Cultural Psychology

LASC-Thoughts, Language and Culture; Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: PS 101, EN 102, PS 210

This course addresses the role culture plays in human psychological processes and approaches to researching cultural aspects of human action.

Offered every year. 3 credits.

PS 380 Physiological Psychology

Prerequisite: PS 101

Psychobiological problems; current physiological research in emotion, motivation and learning and the use of physiological methods in psychology.

Offered every year. 3 credits.

PS 400 Internship in Psychology

Prerequisite: Consent of Instructor

Provides opportunity to advanced students to increase experience through internship with sponsoring community organization, institution, or business under appropriate supervision.

Offered every year. 1-3 credits

PS 405 Independent Study: Topics in Psychology

Prerequisites: PS 101, PS 275, PS 276, Consent of Instructor

Students pursue an area or topic of interest under faculty supervision. Written report(s) required

Offered every semester. 3 credits.

PS 407 Independent Study: Advanced Research in Psychology

Prerequisites: PS 101, PS 275, PS 276, PS 307, Consent of instructor

Students undertake empirical research under faculty supervision. Written report(s) required.

Offered every semester. 3 credits.

PS 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

PS 410 Seminar in Developmental Psychology

LASC - Capstone: Seminar in Development Psychology

Prerequisites: Senior standing; PS 101, PS 275, PS 276, and PS 307; completed all other requirements for the Developmental Processes concentration, permission of instructor

A Capstone course dealing with recent and emerging topics, issues, and methods in developmental psychology. Content and format varies with instructor. Offered every year. 3 credits.

PS 435 Clinical Psychology

Prerequisites: PS 101, PS 335

Practical issues, methods and techniques of current psychotherapies with emphasis on psychoanalytic, client-centered, and behavioral approaches.

Offered every year. 3 credits.

PS 450 Contemporary Issues in Psychology

LASC - Capstone: Contemporary Issues in Psychology

Prerequisites: Senior standing and 10 courses in Psychology, including PS 101, PS 275, PS 276, and PS 307

A Capstone course dealing with recent and emerging topics, issues, and methods in psychological science. Content and format varies with instructor.

Offered every semester. 3 credits.

PS 485 Psychobiology of Mental Disorders

Prerequisites: PS 101. PS 380

Human brain behavior relationships; neurological correlates of attention, cognition, perception, consequences of damage upon behavior.

Offered every 2 years. 3 credits.

PS 492 Capstone Seminar in Mental Health

LASC - Capstone

Prerequisites: Senior standing; complete concentration in Mental Health Services

A Capstone course dealing with recent and emerging topics, issues, and methods in mental health. Content and format varies with instructor.

Offered every year. 3 credits.

PS 499 Honors Thesis

Prerequisites PS 101, PS 275, PS 276, PS 307, Concurrent registration in PS 407, Consent of Instructor

Students participate in a seminar, complete an ongoing Honors Project, and prepare a thesis and summary poster for presentation.

Offered in Spring. 1 credit



Sociology

Department of Sociology

Faculty

Sonya Conner, Assistant Professor (2011)

B.S., University of Louisiana, Lafayette; M.A., Ph.D., University of Oklahoma

Michelle Corbin, Assistant Professor (2011)

B.S., Western Michigan University; M.S. Eastern Michigan University;

Ph.D., University of Maryland

Aldo V. Garcia Guevara, Associate Professor, Department Chair (2006)

B.A., University of North Carolina, Asheville, M.A., Ph.D. University of Texas, Austin

Matthew Johnsen, Associate Professor (2007)

A.B., Dartmouth College; M.S., New Hampshire College; Ph.D., North Carolina State University

Fortunata S. Makene, Associate Professor (2007)

B.A., University of Dar Es Salaam, Tanzania; M.S., St. Cloud State University; Ph.D., University of Minnesota

Francisco Vivoni, Assistant Professor (2013)

B.A., Universidad Puerto Rico en Rio Piedras;

Ph.D., University of Illinois, Urbana

The sociology department strives to help its students develop insights about the workings of the social world and the influence of social structure. Its goal involves not just understanding the world, but working to change it. The departmental curriculum aims to help students uncover root causes of social problems and refine their personal understanding of social responsibility and economic justice. The sociology department embraces the goals of personal, community, and global citizenship. Ultimately, the department strives to provide guidance and teaching designed to help students live better lives in an atmosphere of mutual respect.

As a department engaged in public sociology, faculty strive to teach in ways that stress critical thinking joined with action, to advise and mentor students to prepare for lifelong learning and meaningful careers, to encourage students and faculty to collaborate with peers and partners in the community and contribute to the field, and to engage in service to prepare sociology majors to act in complex settings at home and at work, in their communities and the world. The department encourages majors and minors to participate in study away/ study abroad activities.

Admission Requirements: Admission to the Sociology major is based on maintaining acceptable grades in the general foundation requirements and interest in the field of sociology. Interested persons may contact the Chair of the Sociology Department for further information. Upon admission, each major is assigned an advisor and receives an orientation in sociology.

Requirements for a Major in Sociology: 30 credits including:

SO 100 Introduction to Sociology

SO 270 Social Theory I

SO 275 Social and Behavioral Statistics SO 280 Research Methods of Sociology A maximum of two courses at the 100 level

A minimum of three courses at the 300 and/or 400 level

All courses taken beyond the minimum requirements will be credited as electives.

Requirements for a Minor: 18 credits including:

SO 100 Introduction to Sociology or SO 200 Contemporary Social Problems

All prerequisites for 300 and 400 level courses must be met if the student wishes to elect courses at these levels.

Four Plus One Bachelor of Science in Sociology/Masters in Non-Profit Management

Through a combined five year Bachelor of Science in Sociology/Masters in Non-Profit Management program of studies, it is possible for motivated full-time students who are sociology majors to complete a five-year program leading to degrees including both a bachelor's degree in Sociology and a master's in Non-Profit Management.

Students who have completed 90 undergraduate credits may apply for admission into the special five year BS/MS program if they have an overall GPA of not less than 3.0 and a major GPA of not less than 3.25. Students are also required to complete an undergraduate internship, independent study, or capstone project that incorporates work with a community-based organization as part of their undergraduate work. Students must meet all other requirements for admission to the Master in Non-Profit Management. The GRE requirement is waived for students with an overall GPA of 3.25 or higher. Please also consult the graduate catalog for more information.

In order to complete the joint degree, in the final year of their bachelor's work, students take three graduate level courses (9-11 credits), which are counted toward both the undergraduate and graduate degree requirements. These graduate credits are included in the undergraduate tuition of full-time state supported students. Students must also take at least one summer class between the Spring of their BS graduation and the Fall in which they embark on full-time graduate studies. Taking the graduate credits as an undergraduate and the summer class allows students to complete course requirements for the bachelor's and master's degree in five years (60 months). For more details, students should consult with the graduate coordinator of the program.

Sample Timetable for Completion of Degree: Sociology

YEAR ONE

Semester One		
Course No.	Course Name	Credits
EN 101	English Composition I	3
LASC	First-Year Seminar	3
SO 100	Introduction to Sociology	3
LASC	Quantitative Reasoning (QR)	3
LASC	Constitutions	3
	Semester Subtotal	15

Semester Two			
Course No.	Course Name		Credits
EN 102	English Composition II		3
SO	Any 100 or 200 level course in major		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Thought, Language, and Culture(TLC)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	16
Comments			

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
SO 270	Social Theory I	3
SO 280	Research Methods of Sociology	3
LASC	Global Perspectives (GP)	3
LASC	Natural Systems and Processes (NSP)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	15

Semester Four		
Course No.	Course Name	Credits
SO 275	Social and Behavioral Statistics	3
SO	Any 200 level class	3
LASC	Global Perspectives (GP)	3
LASC	Creative Arts (CA)	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
SO	300/400 level course	3
SO	Distribution elective in Major	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
SO	300/400 level course	3
SO	Distribution elective in Major	3
LASC	Thought, Language, and Culture (TLC)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
LASC/ SO 499	Sociology Capstone (or LASC Capstone)	3
SELECT	General Elective	3
	Semester Subtota	15

Semester Eight		
Course No.	Course Name	Credits
SO	300/400 Level Course	3
SELECT	General Elective	3
	Semester Subtotal	15

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Sociology Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

SO 100 Introduction to Sociology

LASC-Human Behavior and Social Processes

Introduction to the scientific study of social life through the identification and analysis of regularized patterns of human behavior and relationships.

Offered every year. 3 credits.

SO 110 Cultural Anthropology

Cross cultural analysis of the human capacity, for adaptation and technological and ideological development. Significant field studies will be examined.

Offered every year. 3 credits.

SO 190 Sport and Society

Analysis of sport as a social system. The implication of sport within interrelational contexts of other social systems. Offered every 2 years. 3 credits.

SO 193 Special Topics in Sociology for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

SO 199 Special Topics

Introductory level topics. Topic announced at pre-registration.

Offered every 3 years. 3 credits.

SO 200 Contemporary Social Problems

LASC-Human Behavior and Social Processes

Analysis of social, political, urban, and industrial changes which have introduced specific problems into contemporary society.

Offered every year. 3 credits.

SO 205 Issues in American Society

Prerequisite: SO 100

Identification and analysis of current social issues facing contemporary American society, and critique of policies and programs designed to resolve these issues.

Offered every 2 years. 3 credits.

SO 215 Medical Sociology

LASC-Human Behavior and Social Processes; Individual and Community Well-Being

Prerequisite: SO 100

The structure of health care delivery systems and role interaction between levels of health care personnel, patients, and families of patients.

Offered every year. 3 credits.

SO 220 Sociology of the Family

LASC-Human Behavior and Social Processes

Prerequisite: SO 100

A comparative approach to the study of family systems with emphasis on the changing patterns of family life.

Offered every year. 3 credits.

SO 225 Family in Middle Eastern Societies

Prerequisite: SO 100

Study of family systems in the Middle East and the forces of change affecting traditional family patterns.

Offered every 3 years. 3 credits.

SO 230 Political Sociology

Prerequisite: SO 100

Foundations of social movements in political phenomena, social conditions and emerging political institutions; the structural basis of social change and politics.

Offered every 3 years. 3 credits.

SO 235 Music and Social Change

LASC-Creative Arts, Human Behaviors and Social Processes

Using case studies, social theory and historical materials, this course explores the role of music in social change. Offered every 3 years: 3 credits.

SO 240 Sociology of Education

Prerequisite: SO 100

Study of modern educational systems, emphasizing the social, political and economic factors that influence its organization and its functions.

Offered every 2 years. 3 credits.

SO 250 Sociology of Religion

LASC—Human Behavior and Social Processes; Individual and Community Well-Being; Diversity Across the Curriculum

Prerequisite: SO 100

A cross-cultural comparative study of the nature of religious institutions as systems of socially determined and socially relevant beliefs and practices.

Offered every 2 years. 3 credits.

SO 255 Sociology of Disability

LASC – Human Behavior and Social Processes; Individual and Community Well-Being; Diversity Across the Curriculum

Using theory and practical application, this course explores the impact of impairment and disability within a societal context.

Offered every 2 years: 3 credits.

SO 270 Social Theory I

Prerequisite: SO 100

Fundamental concepts and intellectual traditions, especially the contributions of Comte, Spencer, Marx, Toennes, Durkheim, and Simmel.

Offered every year. 3 credits.

SO 275 Social and Behavioral Statistics

LASC - Quantitative literacy across the curriculum

Prerequisites: SO 100 and any 200 Sociology Course; SO 280 recommended

Data tabulation; graphing; measurement of central tendency, variability, and correlation; hypothesis testing applied to psychological and sociological data. Hand and computer analysis.

Offered every year. 3 credits.

SO 280 Research Methods of Sociology

Prerequisite: SO 100

An analysis of the research function in sociology; the conduct of research appropriate to undergraduate students; the formal presentation of research papers.

Offered every year. 3 credits.

SO 285 Race, Class and Gender

LASC - Diversity Across the Curriculum; Human Behavior and Social Processes

An introduction to dominant-minority group relations through the investigation of the patterns and dynamics of differentiation, inequality and discrimination.

Offered every semester. 3 credits.

SO 295 Sociology of Death and Dying

LASC—Diversity Across the Curriculum; Human Behavior and Social Processes; Individual and Community Well-being Prerequisite: SO 100

The course explores the sociological concepts and perspectives as they relate to death and dying and how American society deals with illness, dying death and breavement.

SO 299 Special Topics

Prerequisite: SO 100

Intermediate level topics. Topic announced at pre-registration.

Offered every 3 years. 3 credits.

SO 300 Social Change

LASC-Social Processes and Community Well-Being; Writing Across the Curriculum

Prerequisites: Two courses at 200-level, EN 102

A study of the conditions, patterns, and consequences of social transformations with emphasis on institutional and individual patterns of adjustment and adaptation.

Offered every 3 years. 3 credits.

SO 305 Applied Sociology and Community Research

Prerequisites: SO 100, SO 280; SO 275 recommended

Explores the theory and methods of applied sociology, including ethnographic, institutional, participatory research techniques in community settings.

Offered every 3 years. 3 credits.

SO 310 Formal Organizations

Prerequisites: Two courses at 200-level

The structure and function of, and communications systems within, formal and complex organizations; primary focus on theoretical aspects of organizations.

Offered every 3 years. 3 credits.

SO 315 Social Movements

Prerequisites: Two courses at 200-level

Processes by which new norms and forms of social organization emerge from group behavior, aggregate behavior, and social movements

Offered every 3 years. 3 credits.

SO 330 Criminology

Prerequisites: Two courses at 200-level

Theoretical perspective on crime, criminals and the social aspects of interrelationships within, and between the components of the criminal justice system.

Offered every year. 3 credits.

SO 335 Juvenile Delinquency

Prerequisites: Two courses at 200-level

Dynamics of small group involvement and other environmental influences in the shaping of an individual's personality. Offered every 3 years. 3 credits.

SO 340 Social Psychology

Prerequisites: Two courses at 200-level

Dynamics of small group involvement and other environmental influences on the shaping of an individual's personality. Offered every year. 3 credits.

SO 345 Sociology of Deviance

Prerequisites: Two courses at 200-level

Study of the nature and consequences of deviant behavior with emphasis on socialization, social relationships, and patterns of social control.

Offered every 3 years. 3 credits.

SO 350 Social Stratification

LASC—Human Behavior and Social Processes; Writing Across the Curriculum; Diversity Across the Curriculum Prerequisites: Two courses at 200-level, EN 102

Investigation of the recurrent patterns of social differentiation, social ranking, and the unequal distribution of rewards. Offered every 2 years. 3 credits.

SO 355 Gender and Sexuality

LASC – Human Behavior and Social Processes; Individual and Community Well-Being; Diversity Across the Curriculum

This course introduces the sociologist study of gender and sexuality. This course examines how social institutions and cultural norms construct particular gender roles and sexual identities within society.

Offered every year. 3 credits.

SO 360 Urban Sociology

Prerequisites: Two courses at 200-level

A cross-cultural study of urban social systems and the phenomena and problems connected with the planning process. Offered every 2 years. 3 credits.

SO 375 Contemporary Social Theory

Prerequisites: SO 270

Review of sociological theories, analytical tools, and conceptual schemes prevalent in contemporary debate and consensus.

Offered every 3 years. 3 credits.

SO 400 Independent Study

Prerequisites: Four prior courses in sociology and consent of instructor/chair.

For advanced sociology majors only; topic to be approved by an independent study advisor.

Offered every year. 1-6 credits.

SO 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

SO 410 Field Work

Prerequisites: Four prior courses in sociology and consent of instructor/chair.

Data collection based on participant observation within a social service organization; assignment approval by field work advisor.

Offered every year. 1-6 credits.

SO 420 Seminar in Sociology

Prerequisites: Four prior courses in sociology and consent of instructor/chair.

Advanced study topics in selected areas of sociology; announcement made at pre-registration time. Offered every 3 years. 1-3 credits.

SO 425 Global Development

LASC - Global Perspectives; Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

This course gives an overview of the field of development and processes of development and underdevelopment in developing countries.

Offered every 2 years. 3 credits.

SO 435 Introduction to Social Enterprise

LASC—Human Behavior and Social Processes; Individual and Community Well-Being; Writing Across the Curriculum

Prerequisites: 60 undergraduate credits, EN 120, EN 102

This course examines social entrepreneurship and social enterprise in a global context.

Offered every year. 3 credits.

SO 499 Sociology Capstone

LASC - Major Capstone

Prerequisites: SO 270, SO 275, SO 280, EN 102

This course is an overview of the discipline of sociology, emphasizing mastery of the discipline at an undergraduate level. Offered every year. 4 credits.



Spanish Department of World Languages

Faculty

Judith Jeon-Chapman, Professor (1993)

B.A., College of St. Benedict; M.A., Ph.D., University of Washington

Antonio Guijarro-Donadiós, Assistant Professor (2014)

B.A., Universidad Complutense de Madrid, Spain; M.A., Salford University, England;

M.A., Ph.D. University of Connecticut

Ana Pérez-Manrique, Associate Professor, Department Chair (2006)

B.A., Universidad de Málaga, Spain; M.A., University of South Carolina;

Ph.D., Florida State University

Elizabeth Osborne, Assistant Professor (2016)

B.A., The George Washington University; M.A., Universidad de Chile, Chile, Ph.D., Stony Brook University

Naida Saavedra, Assistant Professor (2016)

B.A., Universidad del Zulia, Venezuela; M.A., Florida State University; Ph.D., Florida State University

Courses in Spanish are designed for students whose interests and career plans have an international or multi-ethnic focus. Students who major or minor in a language will develop listening, speaking, reading, and writing fluency and will study the culture, history and literature of the people who use the language.

Alpha Mu Gamma, a national honor society in foreign languages, recognizes excellence in the study of foreign languages. Any Worcester State University student who receives two "A's" in Spanish, or two "A's" in French, at any level and who has a 3.0 cumulative GPA is eligible to join. Application for membership is in early February. Contact Professor Judith Jeon-Chapman.

The Major in Spanish: The major in Spanish is designed to offer students the opportunity to consolidate their study of the language with a related field of study. Students who major in Spanish can choose to concentrate on 1) the Standard Spanish Major, 2) K-12 Teaching Certification in Spanish or 3) Spanish for the Professions. All of these programs have been configured to maximize the potential of the student in today's professional climate as well as to prepare the student for admittance into graduate programs at other institutions. Students who major in Spanish will develop fluency in listening, speaking, reading and writing skills and will study the culture, history and literature of Spain and the Americas.

Students are strongly encouraged to take a Placement Exam in Spanish at the Academic Success Center. The placement exam is a cost-free, short exam that will allow students with previous exposure to the language to register for courses above SP 101. Study-Abroad opportunities are available for language study in several Spanish-speaking countries.

Students with previous knowledge of or background in the language are also encouraged to take the CLEP Exam at Academic Success, in order to receive credit for SP101, SP 102, SP210 and SP 211 (up to 12 institutional credits).

Information on the Spanish Clinic, Spanish Club, and Spanish Table can be found at the Department of World Languages website.

Requirements for a Major in Spanish: 36 credits including:

SP 210-211	Intermediate Spanish courses (6 credits maximum: These courses
	may be waived by oral and/or written examination)
SP 321	Advanced Spanish Composition I *
SP 322	Advanced Spanish Composition II
SP 323	Advanced Spanish Conversation I **
SP 326	Spanish for the Professions
SP 331	Spanish Civilization
SP 332	The Hispanic World Today or SP 333 The Hispanic Presence in the
	United States

Spanish Literature courses (6 credits minimum)

Spanish Electives in Advanced Language, Civilization or Literature

Students must demonstrate competency in a second foreign language at the **elementary** level. ("Elementary level" means 101 and 102 - two semesters of the same language.)

(Students with advanced knowledge of Spanish should begin at 300-level)

^{*} Required of all students unless exempted by the Department of World Languages.

^{**}This course is a required course for all non-native Spanish speakers.

Sample Timetable for Completion of Degree: Spanish

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
SP 210	Intermediate Spanish I	3
LASC	Natural Systems and Processes (NSP)	3
LASC	US and the World (USW)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
SP 211	Intermediate Spanish II	3
LASC	Quantitative Reasoning (QR)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	15
Comments		

YEARTWO

Semester Three		
Course No.	Course Name	Credits
SP 321	Advanced Spanish Composition I	3
SP 323	Advanced Spanish Conversation I	3
WL/LASC	Other Language 101 course (TLC)	3
LASC	Natural Systems and Processes (lab) (NSP)	4
SELECT	General Elective	3
	Semester Subtotal	16
Semester Four		
Course No.	Course Name	Credits
SP 322	Advanced Spanish Composition II	3
SP 331	Spanish Civilization	3
WL	Other Language 102 course	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
SP 326	Spanish for the Professions	3
SP	Either 332 or 333	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
SP	300 Level Elective	3
SP	300/400 Literature Elective	3
LASC	Individual and Community Well-Being (ICW)	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
SP	300/400 Literature Elective	3
LASC/SP	Capstone	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
SP	300/400 Literature Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Major in Spanish with Concentration in Spanish/Education: 36 credits including:

SP 210-211	Intermediate Spanish courses (6 credits maximum: These courses
	may be waived by oral and/or written examination)
SP 321	Advanced Spanish Composition I *
SP 322	Advanced Spanish Composition II
SP 323	Advanced Spanish Conversation I **
SP 326	Spanish for the Professions
SP 331	Spanish Civilization
SP 332	The Hispanic World Today or SP 333 The Hispanic Presence in
	the United States
SP 355	The Effective Teaching of a Foreign Language

Spanish Literature courses (9 credits minimum)

(Students with advanced knowledge of Spanish should begin at 300-level)

Students must also complete the requirements established by the Education Department. The course of study which leads to teaching certification is in Secondary Education.

Students must also demonstrate competency in a second foreign language at the <u>intermediate</u> level. ("Intermediate level" means completion of 4 semesters of the same language, 101, 102, 210 and 211).

Sample Timetable for Completion of Degree: Spanish, Secondary Education Minor

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
SP 210	Intermediate Spanish I	3
PS 101	General Psychology I	3
WL/LASC	Other Language 101 course (TLC)	3
	Semester Subtotal	15

^{*} Required of all students unless exempted by the Department of World Languages.

^{**}This course is a required course for all non-native Spanish speakers.

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
SP 211	Intermediate Spanish II	3
PS 312	Psychology of Adolescence	3
WL	Other Language 102 course	3
	Semester Subtotal	15
Comments		

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
SP 321	Advanced Spanish Composition I	3
SP 323	Advanced Spanish Conversation I	3
ED 149	Introduction to the Teaching Profession	3
WL	Other Language 210 course	3
LASC	Natural Systems and Processes (NSP)	4
	Semester Subtotal	16

Semester Four		
Course No.	Course Name	Credits
SP 322	Advance Spanish Composition II	3
SP 331	Spanish Civilization	3
ED 250	Educational Psychology Middle and Secondary Majors	3
WL	Other Language 211 course	3
LASC	Natural Systems and Processes (NSP)	3
LASC	Individual and Community Well-Being (ICW)	3
	Semester Subtotal	18

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
SP 326	Spanish for the Professions	3
SP	Either 332 or 333	3
ED 251	Foundations of Education	3
LASC	Global Perspectives (GP)	3
LASC	Quantitative Reasoning (QR)	3
LASC	Creative Arts (CA)	3
	Semester Subtotal	18

Semester Six		
Course No.	Course Name	Credits
SP	300/400 Literature Elective	3
SP	300/400 Literature Elective	3
ED 270	Diversity and Multicultural Education	3
SELECT	General Elective	3
LASC	The United States and Its Role in the World (USW)	3
	Semester Subtotal	15

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
LASC/SP	300 or 400 Level Literature Elective/CAPSTONE	3
SP 355	Effective Teaching of a Foreign Language	3
ED 351	Principles of Curriculum	3
ED 353	Effective Teaching in the Secondary School	3
ED 371**	Contemporary Issues and Trends in Secondary School Education	3
SELECT	General Elective	3
	Semester Subtotal	18

Semester Eight		
Course No.	Course Name	Credits
ED 480	Student Teaching	9
ED 424	Seminar: Teaching Practicum	3
	Semester Subtotal	12
Comments	** - Students must take and pass the MTEL in their subject matter to be admitted into Stage 3.	ре

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Concentration in Spanish for the Professions: (36 credits)

This concentration must be completed in conjunction with a minor or major in another field. The concentration in Spanish for the Professions is recommended for students with a second major or minor for whom a college-level command of the language significantly enhances opportunities for graduate school and/or employment. This course of study must be approved by the department.

Required courses:

SP 210-211		Intermediate Spanish courses (6 credits maximum: These courses
		may be waived by oral and/or written examination)
SP 32	21	Advanced Spanish Composition I* and SP 322 Advanced
		Spanish Composition II
SP 32	23	Advanced Spanish Conversation I**
SP 32	26	Spanish for the Professions
SP 32	27	Projects and Issues in Spanish for the Professions

SP 331 Spanish Civilization

SP 332 The Hispanic World Today or SP333 The Hispanic Presence in the United States

Spanish Literature courses (3 credits minimum)

Internship in Spanish (3 credits minimum)

Spanish Electives in Advanced Language, Civilization, Literature, Internship or Special Topics in Spanish for the Professions

There is no second foreign language requirement for this concentration.

Sample Timetable for Completion of Degree: Spanish for the Professions

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
SP 210	Intermediate Spanish I	3
LASC	Quantitative Reasoning (QR)	3
LASC	Global Perspectives (GP)	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
LASC	Constitutions	3
SP 211	Intermediate Spanish II	3
LASC	The United States and Its Role in the World (USW)	3
LASC	Natural Systems and Processes (NSP)	3
	Semester Subtotal	15

YEAR TWO

Semester Three			
Course No.	Course Name		Credits
SP 321	Advanced Spanish Composition I		3
SP 323	Advanced Spanish Conversation I		3
LASC	Natural Systems and Processes (NSP)		4
SELECT	General Elective		3
LASC	Thought, Language, and Culture (TLC)		3
		Semester Subtotal	16

^{*}Required of all students unless exempted by the Department of World Languages.

^{**}This course is a required course for all non-native Spanish speakers.

Spanish

Semester Four		
Course No.	Course Name	Credits
SP 322	Advanced Spanish Composition II	3
LASC	Creative Arts (CA)	3
SELECT	General Elective	3
LASC	Human Behavior and Social Processes (HBS)	3
SELECT	General Elective	3
	Semester Subtota	I 15

YEAR THREE

Semester Five			
Course No.	Course Name		Credits
SP 326	Spanish for the Professions		3
SP	Either 332 or 333		3
SELECT	General Elective		3
SELECT	General Elective		3
LASC	Individual and Community Well-Being (ICW)		3
		Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
SP 327	Projects and Issues in Spanish for the Professions	3
SP 331	Spanish Civilization	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
SP	300 or 400 Level	3
LASC	Capstone	3
SELECT	General Elective	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	15

Semester Eight			
Course No.	Course Name	Credits	
SP 475	Internship	1-6	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
SELECT	General Elective	3	
	Semester Subtotal	13-18	
Comments		1	

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a Minor in Spanish: 18 credits including:

SP 100-299, beginning and intermediate courses (12 credits maximum)

SP 300-499, advanced courses (6 credits minimum)

(Students with advanced knowledge of Spanish should begin at 300-level)

Students who take the CLEP exam (Academic Success) and score 64 or higher will only need to complete two additional 300 SP level courses to meet all minor requirements.

Spanish Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

SP 101 Beginning Spanish I

LASC-Thought, Language, and Culture

Basic oral and written proficiency for daily communication; may be taken as a self-contained unit or as a basis for further development. Audio-visual method.

Offered every semester. 3 credits.

SP 102 Beginning Spanish II

LASC-Thought, Language, and Culture

Prerequisite: SP 101 or appropriate placement score (testing at Academic Success)

Continuation of SP 101.

Offered every semester. 3 credits.

SP 210 Intermediate Spanish I

LASC-Thought, Language, and Culture

Prerequisite: SP 102 or appropriate placement score (testing at Academic Success)

Conversational patterns, idioms, dialogues, and special vocabularies for daily life situations.

Offered every semester. 3 credits.

SP 211 Intermediate Spanish II

LASC-Thought, Language, and Culture

Prerequisite: SP 210 or appropriate placement score (testing at Academic Success)

Continuation of SP 210.

Offered every semester. 3 credits.

SP 321 Advanced Spanish Composition I

LASC-Thought, Language, and Culture; Writing Across the Curriculum

Prerequisite: SP 211 or appropriate placement score (testing at Academic Success)

Facility in prose reading and writing; study of style of selected authors; variety of expression through word discrimination, and advanced grammatical structures.

Offered every semester. 3 credits.

SP 322 Advanced Spanish Composition II

LASC-Thought, Language, and Culture; WAC (Writing across the curriculum)

Prerequisite: SP 321 or equivalent

Continuation of SP 321.

Offered every semester. 3 credits.

SP 323 Advanced Spanish Conversation I

LASC-Thought, Language, and Culture

Prerequisite: Two SP 200 level courses.

Intensive conversational practice for improving intonation, pronunciation, fluency, review of language usage. This course is for <u>non-native</u> Spanish speakers only.

Offered every semester. 3 credits.

SP 324 Advanced Spanish Conversation II

LASC-Thought, Language, and Culture

Prerequisite: SP 323 or equivalent.

Continuation of SP 323.

Offered every year. 3 credits.

SP 326 Spanish for the Professions

LASC-Global Perspectives; Thought, Language, and Culture

Prerequisite: SP 321, SP 323 or instructor's approval.

Intensive practice with language and documents used in private and public sectors including business, medicine, communication, education and social services.

Offered every year. 3 credits.

SP 327 Projects and Issues in Spanish for the Professions

Prerequisite: SP 321, SP 323 or SP 324 or instructor's approval.

Close study of selected projects and bicultural issues for Spanish professionals.

Offered every year. 3 credits.

SP 331 Spanish Civilization

LASC-Creative Arts

Prerequisite: Two SP 200 level courses

A historical survey of Spanish social, cultural, and political life. Conducted in Spanish.

Offered every year. 3 credits.

SP 332 The Hispanic World Today

LASC-Global Perspectives; Diversity Across the Curriculum

Prerequisite: Two SP 200 level courses

Social, economic and political institutions; value systems and customs. Conducted in Spanish.

Offered every 2 years. 3 credits.

SP 341 Readings in Spanish Literature

Prerequisite: SP321, SP 323 or SP 324 or instructor's approval.

Selected masterpieces from Middle Ages to present; social, cultural, and stylistic features of different periods.

Recommended as a first course in Spanish literature.

Offered every 3 years. 3 credits.

SP 343 Poetry and Theatre of Spain's Golden Age

Prerequisite: SP 321, SP 323 or SP 324 or instructor's approval.

Study of the poetry and drama created during the Renaissance and Baroque periods, known as the Golden Age of Spanish letters.

Offered every 3 years. 3 credits

SP 348 Contemporary Spanish Literature

Prerequisite: SP 321, SP 323 or SP 324 or instructor's approval.

Literary works from the generation of 1898 to the present.

Offered every 3 years. 3 credits.

SP 349 Spanish-American Literature

Prerequisite: SP 321, SP 323 or SP 324 or instructor's approval.

Representative works from South and Central American authors from the colonial period to the present. Offered every 3 years. 3 credits.

SP/ED 355 Effective Teaching of a Foreign Language

Prerequisite: SP 321, SP 323, SP 324, ED 251, 270, 351 or 352 or instructor's approval.

Examines and evaluates effective teaching techniques and strategies as well as second-language acquisition theory for middle/secondary foreign language classrooms.

Offered every 3 years. 3 credits

SP 401 Advanced Study: Special Topics

Prerequisite: For advanced students

Special topics in language, literature, civilization or field work of mutual interest to student and instructor. Offered every year. 3 credits.

SP 402 Independent Study in Spanish

Prerequisite: Consent of instructor

Study of a special topic. Both content and eligibility are subject to departmental guidelines and approval. Offered every year. 1-6 credits.

SP 403 Teaching Assistantship in Spanish

Prerequisite: Consent of instructor

Teaching Assistants in Spanish will regularly attend the beginning or intermediate-level Language courses to which they are assigned to assist the professor.

Offered every year. 3 credits.

SP 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

SP 475 Internship in Spanish

LASC—SP 321, SP 322, SP 326, and SP 327 (SP 327 can be taken concurrently with SP 475)

Prerequisite: Consent of instructor and department

Provides majors practical experience in areas where their speaking, reading, and writing skills may be applied. Offered every year. 3 credits.

Note: Courses in other foreign languages such as German, Chinese, French and Arabic, are offered when demand warrants and staffing permits.



Theatre Department of Visual and Performing Arts

Requirements for a Major in Visual and Performing Arts, concentration in Theatre (See Visual and Performing Arts Department for a complete listing of requirements and courses)

Aligning itself with the evolving needs of the current arts world, Worcester State University offers its arts students a Major in Interdisciplinary Visual and Performing Arts, one of the few interdisciplinary arts majors in the country. With this major, students go beyond the regular art, music and theatre coursework to understand the larger world of Visual and Performing Arts. WSU's Visual and Performing Arts major allows students to gain an interdisciplinary view of the arts while also gaining an in-depth knowledge of their preferred art form.

Students who select a VPA Major also select a concentration in Art, Music or Theatre. Core courses promote critical thinking, and prepare students intellectually and creatively to complete their capstone/senior thesis projects and launch careers in the arts. Students apply their coursework to the production, performance, and critical study of creative work through a multitude of exhibit and performance opportunities.

Requirements for a Minor in Theatre

(See Visual and Performing Arts Department for a complete listing of courses)



Urban Studies Department of Urban Studies

Faculty

Madeline Otis Campbell, Assistant Professor (2012)

B.A., M.A., Brown University; M.A., Ph.D., University of California, Davis

Thomas E. Conroy, Assistant Professor, Department Chair (2010)

B.A., Salem State University; M.A., Ph.D., University of Massachusetts, Amherst

Anne W. Gathuo, Associate Professor (2005)

B.Ed., Kenyatta University; M.B.A., University of Nairobi;

Grad Certificate, M.S., Ph.D., University of Massachusetts, Boston

Timothy E. Murphy, Assistant Professor (2013)

B.A., Indiana; M.A., Ph.D., University of California, Davis

Adam Saltsman (2016)

B.A., Colby College; M.A., Ph.D., Boston College

The goal of the Department of Urban Studies is to foster an understanding of the complex challenges that face an increasingly urban and metropolitan world. The field of Urban Studies uses an interdisciplinary approach to understand metropolitan life. It immerses students in an academically rigorous and personally challenging course of study that helps them discover who they are, and how they can become change agents in this global society. The Urban Studies Department cultivates the development of critical thinking skills necessary to function effectively in today's competitive world. Department graduates enjoy outstanding careers in a wide variety of occupations, such as, public administration, policy development, non-profit management, urban planning, business, law, human services, health care management, housing management, gerontology and social work.

Requirements for the Major: 36 credits. All Urban Studies majors are required to take the following courses:

UR 101	Introduction to Urban Studies
UR 212 UR 301	American Metropolitan Evolution <u>or</u> Cities and Suburbs
UR 213	Human Identity and the Urban Environment
UR 320	Human Needs and Social Policy
UR 401	Research Seminar in Urban Studies/Capstone

Students are encouraged to take community based experiential courses, including practicum and internship. These course credits may not exceed a total of 12, three of which may count towards the major. Students may take the internship after completing 18 credits in the major. The practicum can be taken at any time, upon permission of department.

Sample Timetable for Completion of Degree: Urban Studies

YEAR ONE

Semester One		
Course No.	Course Name	Credits
EN 101	English Composition I	3
LASC First-Year Seminar		3
UR 101	Introduction to Urban Studies	3
LASC	Quantitative Reasoning (QR)	3
LASC	Constitutions	3
	Semester Subtotal	15

Semester Two			
Course No.	Course Name		Credits
EN 102	English Composition II		3
UR	Any 100 or 200 level course in major		3
LASC	Natural Systems and Processes (NSP)		4
LASC	Thought, Language, and Culture (TLC)		3
LASC	Individual and Community Well-Being (ICW)		3
		Semester Subtotal	16
Comments			

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
UR	Major elective approved by advisor	3
LASC	Natural Systems and Processes (NSP)	3
LASC	The United States and Its Role in the World (USW)	3
LASC	Creative Arts (CA)	3
LASC Global Perspectives (GP)		3
	Semester Subtotal	15

Semester Four		
Course No.	Course Name	Credits
UR 213	Human Identity	3
UR 212	American Metropolitan Evolution	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Global Perspectives (GP)	3
SELECT	General Elective	3
	Semester Subtotal	15
Comments		

YEAR THREE

Semester Five		
Course No.	Course Name	Credits
UR 320	Human Needs and Social Policy	3
UR	Any 200 or 300 Level Course	3
LASC	Human Behavior and Social Processes (HBS)	3
LASC	Thought, Language, and Culture (TLC)	3
SELECT General Elective		3
	Semester Subtotal	15

Semester Six		
Course No.	Course Name	Credits
LASC	Creeative Arts (CA)	3
UR	JR Major elective approved by advisor	
UR	Major elective approved by advisor	3
SELECT	General Elective	3
SELECT	SELECT General Elective	
	Semester Subtotal	15
Comments		

YEAR FOUR

Semester Seven		
Course No.	Course Name	Credits
LASC/UR 401	Research Seminar/Capstone	3
UR	JR Course recommended by Advisor	
SELECT	General Elective	3
SELECT	General Elective	3
SELECT General Elective		3
	Semester Subtotal	15

Semester Eight		
Course No.	Course Name	Credits
UR 450	Internship in Major	3-12
UR 451	Internship Seminar	1
UR	Taken if short of 36 credits	3
SELECT	General Elective	3
SELECT	General Elective	3
	Semester Subtotal	13-18
Comments		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

Requirements for a major in Urban Studies, Concentration in Public Administration and Planning: The required courses for the major, 3 credits in experiential learning (internship or practicum), and 3 of the following:

UR 201	Analysis of Urban Systems
UR 310	Power, Politics, and Decision-Making in Urban Communities
UR 311	Community Politics and Policies
UR 340	Urban Housing Dilemma
UR 360	Environmental Systems and Public Policy
UR 361	Public Policy and Environmental Issues
UR 370	Structure and Function of Urban Organizations
UR 380	Public Policy and Cultural Diversity
UR 430	Seminar in Current Urban Problems

Requirements for a Major in Urban Studies, Concentration in Social Work and Social Policy: The required courses for the major, 3 credits in experiential learning (internship or practicum), and 3 of the following:

UR 305	Group Conflict in the Urban Community
UR 306	Interviewing and Counseling Techniques
UR 321	Social Work in Urban Society
UR 325	Social Casework in the Urban Setting
UR 341	Urban Health and Social Policy
UR 350	Urban Youth in American Society
UR 351	Public Policy and Youth Services
UR 380	Public Policy and Cultural Diversity

Requirements for a major in Urban Studies, Concentration in Intergenerational and Community Service: The required courses for the major, 3 credits in experiential learning (internship or practicum), and 3 of the following:

UR 202	Aging and Metropolitan Society
UR 216	Women and Aging
UR 321	Social Work in Urban Society
UR 344	A Society for All Ages
UR 350	Urban Youth in American Society
UR 351	Public Policy and Youth Services
UR 352	Public Policy for an Aging Society

Requirements for a Major in Urban Studies with a concentration in Gerontology: the required courses for the major

PS 322 Psychology of Aging

and 3 of the following:

UR 202 Aging in Metropolitan Society	
UR 216 Women and Aging in the Urban Environn	nent
UR 341 Urban Health and Social Policy	
UR 352 Policy Planning for an Aging Society	

Aging Policy for a Third Age (offered as part of the Consortium Gerontology Studies Program)

Requirements for a Minor: 18 credits including the following:

UR 101	Introduction to Urban Studies
UR 212	American Metropolitan Evolution
UR 213	Human Identity and the Urban Environment
	LUD cool

Three additional UR 300-level courses

Requirements for a Minor in Intergenerational Studies and Community Service: Choose 6 of the following for 18 credits:

UR 101	Introduction to Urban Studies
UR 320	Human Needs and Social Policy
UR 344	A Society for All Ages: Intergenerational Community Service
UR 400	Practicum in Urban Studies
UR 216	Women and Aging or
UR 202	Aging and Metropolitan Society
UR 350	Urban Youth in American Society or
UR 351	Public Policy and Youth Services

Four Plus One Bachelor of Science in Urban Studies / Master of Science in Non-Profit Management:

Through a combined five year Bachelor of Science in Urban Studies/Masters in Non-Profit Management program of studies, it is possible for motivated full-time students who are urban studies majors and minors to complete a five-year program leading to degrees including both a bachelor's degree in urban studies and a Master's in Non-Profit Management. Urban Studies minors may qualify for the program as well.

Students who have completed 90 undergraduate credits may apply for admission into the special five-year BS/MS program if they have an overall GPA of not less than 3.0 and a major GPA of not less than 3.2.5. Students are also required to complete an undergraduate internship, independent study, or capstone project that incorporates work with a community-based organization as part of their undergraduate work. Students must meet all other requirements for admission to the Master in NonProfit Management. The GRE requirement is waived for students with an overall GPA of 3.25 or higher.

Please also consult the graduate catalog for more information.

In order to complete the joint degree, in the final year of their bachelor's work, students take three graduate level courses (9-11 credits) which are counted toward both the undergraduate and graduate degree requirements. These graduate credits are included in the undergraduate tuition of full-time state supported students. Students must also take at least one summer class between the Spring of their BS graduation and the Fall in which they embark on full-time graduate studies. Taking the graduate credits as an undergraduate and the summer class allows students to complete course requirements for the bachelor's and master's degree in five years (60 months). For more details, students should consult with the graduate coordinator of the program.

Urban Studies Courses (Undergraduate)

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

UR 101 Introduction to Urban Studies

LASC - Human Behavior and Social Processes; United States and Its Role in the World

A broad contextual overview of urban life that examines the relationship of people to their environment from an interdisciplinary perspective.

Offered every year. 3 credits.

UR 103 Introduction to Women's Studies

LASC — Human Behavior and Social Processes; Individual and Community Well-Being, Diversity Across the Curriculum This course uses a variety of academic disciplines to study the situation of women around the world. Offered every 2 years. 3 credits.

UR 191 Special Topics in Urban Studies

This introductory level course will cover topics in Urban Studies which are of special interest to first-year students. Offered every year. 3 credits.

UR 193 Special Topics in Urban Studies for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

UR 201 Analysis of Urban Systems

LASC-Human Behavior and Social Processes

Analysis of activities, programs, and policies designed to sustain and enhance the livability of individuals in an urban environment.

Offered every 2 years. 3 credits.

UR 212 American Metropolitan Evolution

LASC-United States and Its Role in the World; Writing Across the Curriculum

Prerequisite: UR 101, EN 102

Development of metropolitan America from a multi-disciplinary approach with emphasis upon dynamics of urban growth, internal development of cities, immigrations, socioeconomic stratification, metropolitanization and problems deriving from growth.

Offered every year. 3 credits.

UR 213 Human Identity and the Urban Environment

Prerequisite: UR 101

Study of factors affecting identity in contemporary urban settings including race, ethnicity, class, age, and sex categories and roles.

Offered every year. 3 credits.

UR 216 Women and Aging in the Urban Environment

LASC-Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

Investigation of the Aging process for women in urban society, focusing on their great longevity, lower income status, and major caregiving role.

Offered every 2 years. 3 credits.

UR 230 Technology, Public Policy, and Urban Society

LASC-Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

Examination of high-technology and its impact on urban society; privacy, ethics, intellectual, property rights, sense of community, and access to information and services.

Offered every year. 3 credits.

UR 240 Introduction to Qualitative Research Methods for the Social Sciences

LASC-Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

This introductory course provides and overview of the research process, and introduces students to commonly used qualitative methods in the social sciences.

Offered every year. 3 credits.

UR 245 Introduction to Survey Research Method for Social Science

LASC-Human Behavior and Social Processes

This introductory course provides an overview of the research process and introduces students to survey research methodology.

Offered every year. 3 credits.

UR 250 Introduction to Urban Planning

LASC-Individual and Community Well-Being

An exploration of planning theory, dynamics, and practice, and how they form the modern urban planning agenda. Offered every 2 years. 3 credits.

UR 290 Gender and the City

LASC-Global Perspectives; Human Behavior and Social Processes; Writing Across the Curriculum

Prerequisite: EN 102

Exploration of ways in which gender, both male and female, structures responses of individuals to urban life and spaces.

Offered every 2 years. 3 credits.

UR 301 Cities and Suburbs

Prerequisite: UR 101

Multidisciplinary study of city-suburban growth patterns and problems both of the past, and those that hamper metropolitan cooperation and affect the quality of life of both city and suburban residents and businesses. Offered every 2 years. 3 credits.

UR 305 Group Conflict in the Urban Community

Prerequisite: UR 101

Study of conflict and its resolution in contemporary urban settings. Personal, small group, and societal strategies for conflict resolution will be explored.

Offered every 2 years. 3 credits.

UR 306 Interviewing and Counseling Techniques

Prerequisite: Consent of instructor

Investigation of skills and process of interviewing and counseling with emphasis upon theory and practice, participant exercises, and development of helping skills and effective counseling relationships.

Offered every 3 years. 3 credits.

UR 310 Power, Politics, and Decision-Making in Urban Communities

Prerequisite: UR 101 or permission of instructor

Exploration from multi-disciplinary approach of social power and its relation to decision-making in urban communities. Emphasis on theories of power, understanding research methodologies, and policy implications.

Offered every 3 years. 3 credits.

UR 311 Urban Politics and Policies

LASC-Human Behavior and Social Processes

Prerequisite: UR 101 or permission of instructor

Political behavior and perceptions in cities and towns from a multidisciplinary perspective with emphasis on how policy is initiated, developed and implemented in various governmental forms.

Offered every 3 years. 3 credits.

UR 320 Human Needs and Social Policy

LASC-Individual and Community Well-Being

Analysis of human needs as they change over a life span; why needs go unmet, and the role of social policy in meeting needs.

Offered every year. 3 credits.

UR 321 Social Work in the Urban Society

Prerequisite: UR 101

Overview of approaches used by social work professionals in assessing and meeting needs, including casework, community organization and planning.

Offered every 2 years. 3 credits.

UR 330 Justice in the Urban Society

Prerequisite: UR 101

Theoretical perspectives on the mission of the criminal justice system and the daily operation of its sub-components. Offered every 3 years. 3 credits.

UR 331 Crime and the City

LASC-Human Behavior and Social Processes

Prerequisite: UR 101

Investigation of crime in contemporary urban society and the social, legal, economic, and cultural strategies for dealing with crime and deviance.

Offered every 2 years. 3 credits.

UR 340 Urban Housing Dilemma

Prerequisite: UR 101

Analysis of the factors that shape the nature, location, and supply of urban housing with special focus on federal, state and local policies.

Offered every 3 years. 3 credits.

UR 344 A Society for All Ages: Intergenerational Community Service

Exploration of the necessary role of community service in civic life with emphasis on harnessing the power of intergenerational programs to address social concerns.

Offered every year. 3 credits.

UR 350 Urban Youth in American Society

Prerequisite: UR 101

Role and problems of youth in urban societies viewed from a variety of social science perspectives with utilization of contemporary music and literature.

Offered every 2 years. 3 credits.

UR 351 Public Policy and Youth Services

Prerequisite: UR 101

Role of theory, attitudes, and public opinion in the formation of policies concerning delinquency with exploration of current practices and innovative strategies.

Offered every 2 years. 3 credits.

UR 352 Policy Planning for an Aging Society

Prerequisite: Consent of instructor

Analysis of current social policies in regard to elders and exploration of ways in which policies need to be altered to meet growing elder needs.

Offered every 3 years. 3 credits.

UR 353 Aging in a Global Society

LASC-Global Perspectives; Diversity Across the Curriculum

Explores the ramifications of unrelenting Global Aging, focusing on the questions, what are old people for and the connections across generations.

Offered every 2 years. 3 credits.

UR 360 Environmental Systems and Public Policy

Prerequisite: UR 101 or permission of instructor

Examination of urban ecosystems, focusing on land uses designed to effectively utilize water, open space and other natural resources.

Offered every 2 years. 3 credits.

UR 361 Public Policy and Environmental Issues

Prerequisite: UR 101 or permission of instructor

Investigation of the factors that determine the formation of public policy on the environment with consideration of the roles played by state and federal regulatory agencies.

Offered every 2 years. 3 credits.

UR 380 Public Policy and Cultural Diversity

LASC-Human Behavior and Social Processes; United States and Its Role in the World

Prerequisite: UR 101

This course will examine contemporary policy issues and problems deriving from cultural diversity. These will include areas such as immigration, population, demographics, affirmative action, public assistance, integration, separatism, political correctness, gender equity, and the role of organized religion in contemporary politics.

Offered every 2 years. 3 credits.

UR 401 Research Seminar in Urban Studies/Capstone

LASC - Major Capstone Prerequisite: UR 101

Research skills for urban-based projects including techniques in gathering, analyzing, and reporting data and various forms of field research.

Offered every year. 3 credits.

UR 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

UR 410 Independent Study

Prerequisite: UR 101

Individual or small group directed research into selected problems and issues in urban affairs.

Offered every semester, 3 credits.

UR 411 Assigned Readings in Urban Affairs

Prerequisite: UR 101

Directed readings for students interested in special topics related to their academic program of study.

Offered every 2 years. 3 credits.

UR 421 Selected Topics in Urban Studies

Prerequisite: UR 101

In-depth examination of topical issues challenging the intellectual and creative interests of advanced students in urban studies.

Offered every year. 3 credits.

UR 430 Seminar in Current Urban Problems

Prerequisite: UR 101

Individual and group investigation and research of selected and current urban problems.

Offered every 2 years. 3 credits.

UR 432 Demographic Research Seminar

Prerequisite: UR 101

Small group or individual research using various sources in gathering, interpreting, reporting and projecting policy implications of demographic data.

Offered every 3 years. 3 credits.

UR 440 Practicum in Urban Studies

Prerequisite: UR 101

Directed experiential study for advanced students.

Offered every year. Variable credit.

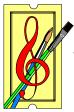
UR 450 Internship in Urban Studies

Prerequisites: Completion of 21 credits in Urban Studies

Supervised and intensive semester-long experience in community agencies.

Offered every year. 3-12 credits.

WORCESTER S T A T E UNIVERSITY



Visual and Performing Arts, Interdisciplinary

Department of Visual and Performing Arts

Faculty

Michael C. Hachey, Professor, Art (1993)

B.F.A., M.F.A., Massachusetts College of Art

John H. Hood, Professor, Theatre (2004)

B.F.A., Arizona State University; M.F.A., University of Minnesota

Kyle D. Martin, Professor, Music (1998)

B.M., Hardin-Simmons University; M.M., D.M.A., Eastman School of Music

Christie B. Nigro, Professor, Music (1989)

B.M., Syracuse University; M.M., Yale University; Ph.D., University of Massachusetts

Sam O'Connell, Associate Professor, Theatre (2010)

B.A., M.A., Washington University; Ph.D., Northwestern University

Stacey Parker, Associate Professor, Art (2007)

B.F.A., Alfred University; M.F.A., Rochester Institute of Technology

Robert Sahagian, Professor, Music (1968)

B.M., New England Conservatory of Music; M.M., Ph.D., Michigan State University

Amaryllis Siniossoglou, Professor, Art (2005)

PEP, Royal College of Art, London, England; M.F.A., University of Massachusetts, Amherst; Ecole Nationale Superieure Des Beaux-Arts, Paris, France; Diplome Superieur d'Art Plastique; School of Art, Athens, Greece; Drawing and Painting School, Certificate

Catherine Wilcox-Titus, Professor, Art (2004)

B.A., University of Toronto; M.S., Simmons College; M.A., Ph.D., Boston University

Adam Zahler, Associate Professor, Theatre, Department Chair (2007)

B.A., University of Vermont; M.F.A., University of Virginia

Aligning itself with the evolving needs of the current arts world, Worcester State University offers its visual and performing arts students a Major in Interdisciplinary Visual and Performing Arts, one of the few interdisciplinary arts majors in the country. With this major, students go beyond the regular art, music, and theatre coursework to understand the larger world of visual and performing arts. WSU's VPA major allows students to gain an interdisciplinary view of the arts while also gaining an in-depth knowledge of their preferred art form. This interdisciplinary approach teaches students how to use one art form to inform the other.

Students who select a VPA Major also select a concentration in Art, Music or Theatre. Core courses promote critical thinking, and prepare students intellectually and creatively

to complete their capstone/senior thesis projects and launch careers in the arts. Students apply their coursework to the production, performance, and critical study of creative work through a multitude of exhibit and performance opportunities.

Double Major - VPA and Education

Worcester State University also makes available a double major in Early Childhood or Elementary Education and the arts for students who want to teach the arts. Students fulfill Education requirements and VPA requirements with a concentration in Art, Music, Theatre, or Visual and Performing Arts. (See below)

Minors in Art, Music, Theatre

Recognizing the interdisciplinary nature of the arts and how the arts often integrate into and enhance students' study in other disciplines such as criminal justice, communication, business and psychology, the Visual and Performing Arts Department offers minors in its three disciplines of Art, Music, and Theatre. A minor in the arts allows students to further explore and develop their affinity for the arts and their artistic talents. (See below)

Requirements for a VPA Major – Foundation Courses

Minimum requirement for the major is completion of a three course (9 credit) Foundation curriculum, a three course (9 credit) Interdisciplinary Core, and 27 credits in one of three concentrations. Students will declare a concentration in Art, Music, or Theatre.

Interdisciplinary Foundation Courses

Foundation in Art

3 credits

- AR 113 World Art Survey II OR
- AR 100 Cross Media Studio

Foundation in Music

3 credits

- MU 100 Music Fundamentals OR
- MU 101 Fundamentals of Music and Aural Skills for music concentrators OR
- MU 102 Applied Music OR
- MU 115 Music Appreciation

Foundation in Theatre

3 credits

TH191 Introduction to Theatre

Interdisciplinary Core Courses

•	VP 200 Critical Thinking in the Arts	3 credits
•	VP 300 Interdisciplinary Arts Seminar	3 credits
•	VP 400 Arts Capstone/ Senior Thesis	3 credits

Foundation and Core Total 18 credits

Visual and Performing Arts Major – Concentration in Art

Based on an interdisciplinary arts foundation with music and theatre, the Art concentration offers a program in the creation of visual art augmented by studies in art history. Courses in design, drawing, painting, printmaking, sculpture, digital arts, and integrated media provide the technical skills and concepts that form the basis for expression in visual art. Existing within the interdisciplinary major, the Art concentration presents extensive involvement in studio art while encouraging creative thinking and artistic production that are informed by and sometimes created with the performing arts of music and theatre.

In addition to the three Foundation courses and three Interdisciplinary Core courses students will complete nine courses (27 credits) including:

AR 100 Cross Media Studio 3 credits or AR 112 World Art Survey I 3 credits
 AR 140 Drawing I 3 credits
 AR 117 Visual Design: 2-Dimensions 3 credits
 AR 122 Visual Design: 3-Dimensions 3 credits
 AR 113 World Art Survey II 3 credits
 AR 225 Art Since Mid-Century 3 credits
 Additional AR courses* 9 credits

Concentration Total 27 credits

MU 205 Music Theory I

Major Total 45 credits

*With advisement, electives within a concentration may be selected from the other disciplines. For a description of required and elective courses see requirements for a concentration in Art, Music, and Theatre.

Visual and Performing Arts Major – Concentration in Music

Based on an interdisciplinary arts foundation with art and theatre, the music program offers courses in performance, history, composition and theory of music. It also offers applied music lessons in voice, piano, guitar, violin, trombone, saxophone and more. Students are provided with opportunities to perform in ensembles plus take a wide variety of classroom courses to enhance musical understanding and literacy, and how they apply to the larger world of the visual and performing arts.

In addition to the three Foundation courses and three Interdisciplinary Core courses students will complete 18 credits of courses, lessons, and ensemble (or 17 credits if Class Piano is taken) including:

•	MU 101 Fundamentals of Music & Aural Skills	3 credits
•	MU 205 Music Theory I	3 credits
•	MU 281 Music History I	3 credits
•	MU 282 Music History II	3 credits
•	MU 102-202-302-402 Private lessons	4 credits
	(four semesters @ 1 credit each)	
•	Ensemble	2 credits
	(credits earned after completion of four semesters of	
	ensemble participation)	
•	MU 190 Class piano (unless proficient)	1 credit
•	Additional MU courses*	8 or 9 credits

Or, if MU101 Fundamentals of Music & Aural Skills is taken as Interdisciplinary Foundation

•	MU 210 Music Theory II	3 credits
•	MU 281 Music History I	3 credits
•	MU 282 Music History II	3 credits
•	MU 102-202-302-402 Private lessons	4 credits
	(four semesters @ 1 credit each)	
•	Ensemble	2 credits

(credits earned after completion of four semesters of ensemble participation)

MU 190 Class Piano (unless proficient)
 Additional MU courses*
 8 or 9 credits

3 credits

*With advisement, electives within a concentration may be selected from the other disciplines. For a description of required and elective courses see requirements for a concentration in Art, Music, and Theatre.

Concentration Total 27 credits Major Total 45 credits

Visual and Performing Arts Major – Concentration in Theatre

Based on an interdisciplinary arts foundation with art and music, the theatre program offers courses in acting, theatre history, theatre for young audiences, stage combat, design and performance. Mainstage productions are produced on a regular basis with at least three productions per academic year. Each is realized in a fully equipped theatre with state-of-the-art lighting and sound equipment. Advanced students are encouraged to stage their own laboratory shows and also to intern with local theatre companies. The theatre faculty teaches interdisciplinary courses with faculty from Art and Music.

In addition to the three Foundation courses and three Interdisciplinary Core courses students will complete nine courses (27 credits) including:

•	TH 275 Introduction to Stagecraft	3 credits
•	TH 245 Acting I	3 credits
•	TH 355 Theatre Practicum (3 at one credit each)	3 credits
	and one of the following:	
	TH 360 Scene Design for Theatre	3 credits
	TH 370 Costume Design for Theatre	3 credits
	TH 390 Lighting Design for Theatre	3 credits
•	Additional TH courses*	15 credits
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Concentration Total 27 credits

Major Total 45 credits

Visual and Performing Arts and Education – Double Major

Students who double major in Early Childhood or Elementary Education may concentrate in Art, Music, Theatre, or Visual and Performing Arts. They will fulfill the Interdisciplinary Foundation and Core requirements plus requirements in their concentration for a total of 36 credits.

Emphasis in Art for Students who double major in Early Childhood or Elementary Education

Interdisciplinary Foundation and Core requirements 18 credits plus

• Art History 3 credits

AR 112 World Art Survey I (unless taken for foundation)

Or

AR 113 World Art Survey II

Or

AR 225 Art Since Mid-Century

^{*}With advisement, electives within a concentration may be selected from the other disciplines. For a description of required and elective courses see requirements for a concentration in Art, Music, and Theatre.

3 credits

• Studio Art 9 credits
AR 140 Drawing
AR 117 Visual Design: 2-D

AR 122 Visual Design: 3-D

Art Pedagogy

AR 260 Visual Arts in the Schools

Electives in Art 3 credits

Concentration Total Credits: 18

Major Total Credits: 36

Emphasis in Music for Students who double major in Early Childhood or Elementary Education

Interdisciplinary Foundation and Core requirements 18 credits plus

Music Theory 3 credits
 MU 101 MU 101 Fundamentals of Music &

Aural Skills (Unless taken as foundation)
Or

205 Music Theory I

Music Literature 3 credits

MU 115 (Unless taken as foundation)

Or

MU 281 Music History I or

Or

MU 282 Music History I I

Applied Music (Lessons and Ensembles)
 MU 190 Class Piano
 MU 195 Class Guitar
 Or

MU 102/103 Private Lessons at 1 Credit Each 2 credits
Participation in two Ensembles at .5 Credits Each 1 credit

Music Pedagogy 3 credits

MU 237 Music in the Elementary School

Electives in music
 6 credits

Concentration Total 18 Credits

Major Total 36 Credits

Emphasis in Theatre for Students who double major in Early Childhood or Elementary Education

Interdisciplinary Foundation and Core Requirements • Theatre Pedagogy 18 credits

TH 290 Theater for Young Audiences
TH 292 Creative Dramatics

Performance and Production 9 credits

TH 245 Acting I

TH 275 Introduction to Stagecraft
TH 321 Rehearsal and Performance

Electives in Theatre 3 credits

Concentration Total 18 Credits

Major Total 36 Credits

Emphasis in Visual and Performing Arts for Students who double major in Early Childhood or Elementary Education Interdisciplinary Equadation and Core Requirements 18 credits plus

Inte	erdisciplinary Foundation and Core Requirements	18 credits plus
•	AR 260 Visual Arts in the Schools	3 credits
•	MU 237 Music in Elementary School	3 credits
•	TH 290 Theatre for Young Audiences	3 credits
•	TH 292 Creative Dramatics	3 credits
•	Electives in Art, Music, Theatre, and Visual	
	and Performing Arts	6 credits

Concentration Total 18 Credits Major Total 36 Credits

Visual and Performing Arts Minors

Requirements for a Minor in Art

18 credits in art related courses, including a minimum of three credits in art history and at least one art course at the 300-level.

Requirements for a Minor in Music:

As a music minor, students complete courses in the performance, history, composition, and theory of music, and also in applied music. Students must audition for applied music spots. Students are provided with opportunities to perform in ensembles as well as take a wide variety of classroom courses to enhance musical understanding and literacy.

18 credits in music with 3 credits are required in each of the following:

- Music Theory (MU 100 Music Fundamentals or MU 101 Fundamental of Music and Aural Skills or MU 205 Harmony I)
- Music History (MU 115 Music Appreciation or historical period courses)
- Applied Studies (private lessons or ensembles).
- 9 additional credits in music electives.

Requirements for a Minor in Theatre

18 credits comprised of the following courses:

- TH 191 Introduction to the Theatre
- TH 245 Acting I
- TH 275 Introduction to Stagecraft and Design
- TH 321 Rehearsal and Performance
- Two additional 3 credit theatre courses

Art Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

AR 100 Cross Media Studio

LASC-Creative Arts; Thought, Language, and Culture

An introduction to selected two- and three-dimensional media through the exploration of a semester-long theme such as the human figure, or forms in nature.

Offered every year. 3 credits

AR 105 Introduction to Animation

This hands-on introductory level course covers the fundamentals and aesthetics of computer animation using the Adobe AfterEffects motion graphics program.

Offered every year. 3 credits

AR 112 World Art Survey I

LASC-Creative Arts; Thought, Language, and Culture

Surveys the world's major cultural achievements in the visual arts from the prehistoric period to ca.1400. Offered every year. 3 credits.

AR 113 World Art Survey II

LASC-Creative Arts; Thought, Language, and Culture

Major cultural achievements in the visual arts from ca.1400 to the early twentieth century. Offered every year. 3 credits.

AR 117 Visual Design: Two-Dimensions

LASC-Creative Arts

A foundation for visual literacy through studio work utilizing such art elements as line, form, color, and texture. Offered every year. 3 credits.

AR118 Global Art History

LASC-Creative Arts; Thought, Language, and Culture

Surveys the outstanding visual art from all cultures beginning in the prehistoric era to the late 19th century. Offered every year. 3 credits.

AR 122 Visual Design: Three-Dimensions

LASC-Creative Arts

A foundation for visual literacy through studio work utilizing spatial elements such as plane, mass, volume, and structure. Offered every year. 3 credits.

AR 130 Painting I

LASC-Creative Arts

An introduction to the fundamentals of historical painting styles, techniques, and materials used, with emphasis on visual perception and expression.

Offered every year. 3 credits.

AR 140 Drawing I

LASC-Creative Arts

The development of visual awareness, technical skills, and individual expression in drawing media. Offered every year. 3 credits.

AR 150 Life Studio I

LASC-Creative Arts

Focus on the human figure through different modes of drawing and painting. Attention to structure and anatomy and their expressive aspects.

Offered every year. 3 credits.

AR 160 Sculpture I

LASC-Creative Arts, Writing Across the Curriculum

Prerequisite: EN 102

Three-dimensional studio creations through a variety of traditional and contemporary materials. Both realistic and abstract concepts are explored.

Offered every year 3 credits.

AR 165 Creating Cultural Forms

LASC - Creative Arts, Global Perspectives, Writing Across the Curriculum, Diversity Across the Curriculum

Prerequisite: EN 102

A studio course. Concepts of art forms created by a variety of world cultures and art movements of the past and present.

Offered every year. 3 credits.

AR 193 Special Topics in Art for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

AR 200 History of American Art

LASC-Creative Arts; Thought, Language, and Culture

A survey of the visual arts in the United States, from the Colonial Period to the present.

Offered every year. 3 credits.

AR 220 Foundations of Modern Art

LASC-Creative Arts; Thought, Language, and Culture

Influential 19th century developments such as Realism and Impressionism are discussed in relationship with early 20th century art.

Offered every 2 years. 3 credits.

AR 225 Art Since Mid-Century

LASC-Creative Arts; Thought, Language, and Culture

Explores challenges to the traditional definitions of the art object and the expanded materials, media and concepts employed by artists since 1950.

Offered every year. 3 credits.

AR 230 Printmaking

LASC-Creative Arts

Introduction to the techniques and aesthetics of monotype and relief. Prints by major artists are examined. Offered every year. 3 credits.

AR 235 Mixed Media

Prerequisite: One studio course or consent of instructor

LASC Creative Arts

Advanced investigation and experimentation in the use of interrelated media and materials of two- and three-dimensions.

Offered every year. 3 credits.

AR 240 Watercolor

LASC-Creative Arts; Thought, Language, and Culture

A studio course exploring various techniques and expressive forms used by watercolorists of the past and present. Offered every year. 3 credits.

AR 260 Visual Arts in the Schools

LASC-Creative Arts

An exploration of art materials and concepts, and their appropriate use with children. Includes studio projects, art history, and educational theory.

Offered every year. 3 credits.

AR 270 Driftwood to Dumpsters

LASC-Creative Arts; Thought, Language, and Culture, Writing Across the Curriculum

Prerequisite: EN 102

Students will learn about the history and practice of making art from non-traditional materials. This is a lecture and

hands-on art course.

Offered every 2 years. 3 credits.

AR 275 Gallery and Museum Studies

LASC-Creative Arts; Thought, Language, and Culture

All aspects of installation and exhibition of art work in WSU gallery, including solicitation of art, publicity, display, and management.

Offered every 2 years. 3 credits.

AR/CM 285 History of Photography

LASC-Creative Arts; Thought, Language, and Culture

The history of photography from 1839 to present, with attention to styles, aesthetics, technical processes, and leading practitioners.

Offered every 2 year. 3 credits.

AR 300 Painting II

Prerequisite: AR 130 or consent of instructor

Continuation of painting with emphasis on individual development through interpretive projects.

Offered every 2 years. 3 credits.

AR 302 Drawing II

Prerequisite: AR 140 or consent of instructor

Advanced projects in drawing with increasing emphasis on individual direction.

Offered every 2 years. 3 credits.

AR 306 Sculpture II

Prerequisite: AR 160 or consent of instructor

Further exploration of sculptural form with a diversity of materials, techniques, and expressive meaning.

Offered every 2 years. 3 credits.

AR 330 Intermediate Printmaking

Prerequisite: AR 230

Continuation of relief printmaking in an individual direction using tone/color and multiple blocks.

Offered every year. 3 credits.

AR 350 Special Topics in Art

Prerequisite: One studio course or consent of instructor

A course covering topics which vary in response to specific student and faculty interest.

Offered every 3 years. 3 credits.

AR 400 Independent Study in Art

Prerequisites: Limited to art minors with minimum of 12 credits

An opportunity for further individual study in a special interest. Self-directed under supervision of faculty. Offered every year. 3 credits.

AR 402 Internship in Art

Prerequisite: Limited to art minors

An individual experience through internship with a sponsoring community organization, professional institution or individual, i.e., museums, galleries, artists.

Offered every 3 years. 3-6 credits.

Music Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

MU 100 Music Fundamentals

LASC-Creative Arts

An introduction to the rudiments of music theory, including pitch and rhythmic organization. Emphasis is placed on intervals, major and minor scales, reading and writing rhythm, and chord structures.

Offered every year. 3 credits.

MU 101 Fundamentals of Music and Aural Skills

I ASC -- Creative Arts

An introduction to reading and writing conventional music notation, the fundamentals of music theory, and basic aural skills. Emphasis will be placed on intervals, scales, chords, rhythmic values, sight-singing, melodic dictation, and aural recognition of intervals and chords.

Offered every year. 3 credits

MU 102 Applied Music

Prerequisite: Audition required

Instruments offered: Piano, voice, clarinet, flute, saxophone, trumpet, trombone, French horn, violin, cello, percussion, classical guitar, organ. Instructors for other instruments may be arranged by special request to Music Department. Private instruction in an instrument or voice, one-half hour lesson per week. Studio fee required. May be repeated. Offered every year. 1 credit.

MU 115 Music Appreciation

LASC-Creative Arts

A general survey of masterpieces of the major composers of various periods in the history of music. Offered every year. 3 credits.

MU 120 Ear-Training

Prerequisites: MU 100 or MU 101

An introductory course in the fundamentals of ear-training and sight-singing. Emphasis will be placed on the development of basic melodic, harmonic, and rhythmic aural skills through listening, dictation, and application of solfege.

Offered every year. 3 credits.

MU 125 Jazz Appreciation

LASC-Creative Arts, Thought, Language, and Culture

Surveys the history of jazz, beginning with the earliest roots in the American South to today.

Offered every year. 3 credits.

MU 140 World Music

LASC-Creative Arts

An introduction to music of various cultures and continents including music of Africa, Asia, Latin America, The Middle East and India.

Offered every year. 3 credits.

MU 150 Opera

Analysis of the masterworks of the standard operatic repertoire.

Offered every year. 3 credits.

MU 175 Music in America

A survey of music history and literature in America including gospel spirituals, jazz, popular and classical music. Offered every 3 years. 3 credits.

MU 190 Class Piano

LASC—Creative Arts

Prerequisite: MU 100 or MU 101

Basic piano proficiency. Class topics will include an introduction to the keyboard, hand position, and music theory. Solo literature appropriate to the level will be studied.

Offered every year: 1 credit

MU 193 Special Topics in Music for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

MU 195 Class Guitar

An introduction to playing the guitar, including technique, reading tabs and notation, and harmonization of melodies with chords. Solo literature appropriate to the level will be studied. Students are required to provide an instrument. Offered every year: 1 credit

MU 200 Issues in Music

This course deals with topics of special interest, in both seminars and applied environments at an introductory level. Offered every other year. 3 credits.

MU 202 Applied Music

Prerequisite: Audition required

Note: Please refer to instrument listing for MU 102

Private instruction in an instrument or voice, one-half hour lesson per week. Studio fee required. May be repeated. Offered every year. 1 credit.

MU 204 Composition I

LASC-Creative Arts

Prerequisite: MU 100 or MU 101

An introduction to compositional methods and techniques. Students develop personal expression by creating musical works while exploring use of melody, harmony, timbre, rhythm, texture, and tonality within conventional musical forms. Offered every other year. 3 credit.

MU 205 Music Theory I

LASC—Creative Arts
Prerequisite: MU 100

Analysis and application of harmonization techniques using diatonic chords. Further emphasis is placed on voice-leading, figured bass, melodic construction, and embellishing tones.

Offered every year, 3 credits.

MU 208 Music Software

Prerequisites: MU 100 or MU 101

A survey of music software including Finale, Sibelius, Logic, GarageBand and other current applications. Students will explore the features of each program relative to notation, composition, arranging, and recording.

Offered every year, 3 credits.

MU 210 Music Theory II

LASC—Creative Arts Prerequisite: MU 205

Analysis and application of harmonization techniques using diatonic and chromatic chords. Emphasis is placed on voice-leading, non-chord tones, secondary chords, and modulation.

Offered every year. 3 credits.

MU 213 Music Technology of MIDI Systems and Digital Audio

Prerequisite: MU 100 or knowledge of notation and department consent

Offers study in MIDI/Digital Audio Systems and electronic music synthesis in a PC environment. Prepares student interested in audio engineering.

Offered every year. 3 credits.

MU 215 Chorus and Music Theory

LASC-Creative Arts

Prerequisite: Audition required

Mixed choral repertoire and performance, covering vocal problems and techniques. Introduction to music theory, rhythms, intervals, basic chordal structures, harmonization. Participation in college chorus required.

Offered every year. 3 credits.

MU 220 Chorus

LASC—Creative Arts Prerequisite: MU 215

Mixed chorus repertoire. May be repeated.

Offered every semester. 1 credit.

MU 222 African Drumming

LASC-Creative Arts, Global Perspectives, Diversity Across the Curriculum

An exploration of African music and drumming techniques from the culture of Ghana. Students will develop performance skills and present a public performance during the course of the semester.

Offered every year, 3 credits.

MU 225 Band

LASC-Creative Arts

Prerequisite: Audition required

Study and experience in repertoire and performance. May be repeated.

Offered every year. 1 credit.

MU 226 Band and Music Theory

LASC-Creative Arts

Prerequisite: Audition required

Study and experience in music notation and style of instrumental music. Participation in college band required. Offered every year. 3 credits.

MU 230 New England Jazz Artists

To enhance the student's knowledge of jazz by studying and analyzing the music of the great jazz artists and venues of the New England area.

Offered every year. 3 credits.

MU 231 Women in Music

LASC-Creative Arts; Thought, Language, and Culture

A survey of the role of women in music, particularly the great women composers from Medieval to Contemporary times. Category1.3 credits.

MU 234 Music of the Baroque Period

The period 1600-1750 with emphasis on Bach and Handel.

Offered every 3 years. 3 credits.

MU 235 Music of the Classical Period

The period 1750-1827; Haydn, Mozart and Beethoven.

Offered every 3 years. 3 credits.

MU 237 Music in the Elementary School

LASC-Creative Arts

Discover the benefits of using music to enrich general education from preschool through high school. Develop your own musicianship through learning to use your singing voice, learning to play the recorder, learning to read notation and gaining an overview of western music history.

Offered every year. 3 credits.

MU 240 Music of the Romantic Period

A survey of nineteenth-century music beginning with Beethoven.

Offered every 2 years. 3 credits.

MU 245 Twentieth-Century Music

A comprehensive study and general listener's approach to contemporary music beginning with Impressionism. Offered every 2 years. 3 credits.

MU/CM 250 Music of the Cinema: Spectacle, Splendor, and Spielberg

LASC-Creative Arts; Thoughts, Language and Culture

An introduction to the role, impact, and importance of music in motion pictures from silent movies through contemporary film.

Offered every 2 years. 3 credits.

MU 255 The Golden Era of Piano Music

LASC-Creative Arts

A survey of piano music beginning with Beethoven and continuing through the Romantic tradition to the early twentieth century.

Offered every year. 3 credits.

MU 260 Symphonic Music

LASC-Creative Arts

A survey of symphonic music beginning with the classical period.

Offered every year. 3 credits.

MU 265 The Concerto

LASC-Creative Arts

The concerto from the eighteenth to the twentieth century with emphasis on the development of the piano concerto. Offered every 2 years. 3 credits.

MU 270 Music in Horror Films

A survey of scores composed for horror films. Emphasis is placed on the role of music in the genre and the composer's interpretation of various components of screenplays, including narrative, characters, and emotional content. Offered every other year. 3 credits.

MU 281 Music History I

LASC-Creative Arts

A general survey of western art music from the Medieval, Renaissance, and Baroque periods. Offered every year. 3 credits.

MU 282 Music History II

LASC-Creative Arts

A general survey of western art music from the Classical and Romantic periods, and the twentieth century. Offered every year. 3 credits.

MU 300 Chorale

LASC-Creative Arts

Prerequisites: By audition only

Study and performance of a cappella choral literature from the Middle Ages to contemporary times. May be repeated.

Category 1.1 credit.

MU 302 Applied Music

Prerequisite: Audition required

Note: Please refer to instrument listing for MU 102

Private instruction in an instrument or voice, one-half hour lesson per week. Studio fee required. May be repeated. Offered every year. 1 credit.

MU 310 The American Musical in Performance

Study, rehearsal and performance of a great American musical. Music, acting and dance will all be skills which are developed.

Offered every other year. 3 credits.

MU 321 Small Music Chamber Ensemble

LASC-Creative Arts

Prerequisite: By audition or consent of the instructor

The performance of musical works by a small ensemble.

Offered every year. 1 or .5 credit.

MU 380 Form and Analysis

Prerequisite: MU 210

An introduction to and analysis of the formal structures of music.

Offered every 3 years. 3 credits.

MU 400 Independent Study in Music

Prerequisite: Consent of instructor

An opportunity for further study in a special field of interest under faculty supervision.

Offered every year. 1-6 credits.

MU 402 Applied Music

Prerequisite: Audition required

Note: Please refer to instrument listing for MU 102

Private instruction in an instrument or voice, one-half hour lesson per week. Studio fee required. May be repeated.

Offered every year. 1 credit.

MU 410 Special Topics in Music

This course will allow members of the music faculty to develop courses of special interest. This would include seminars on specific composers or compositions, in both classroom and applied studio environments.

Offered every 3 years. 3 credits.

Theatre Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

TH 135 Oral Interpretation of Literature

LASC-Creative Arts

Techniques of reading aloud and staging non-dramatic literature; e.g., short stories, poetry, etc. The student analyzes selections and then performs them in class.

Offered every year. 3 credits.

TH 191 Introduction to Theatre

LASC-Creative Arts

An overview of live performance, with the emphasis on audience appreciation. Performance arts and crafts are examined.

Offered every year. 3 credits.

TH 193 Special Topics in Theatre for First-Year Students

All "193" courses are approved for LASC but may vary by section. See current course listing for specific LASC area approval. Introductory level course covering topics of special interest to first-year students. Offered only as a First-Year Seminar. Offered every year. 3 credits.

TH 226 Script Analysis

LASC—Creative Arts; Thought, Language, and Culture, Diversity Across the Curriculum Script analysis for theatre artists. How to take a script from initial reading to production

Offered every year. 3 credits.

TH 236 History of Theatre I

LASC-Creative Arts; Thought, Language, and Culture

Survey of world theatre from Golden Age of Athens to Restoration England, including brief overview of Asian theatre. Offered every year. 3 credits.

TH 237 History of Theatre II

LASC-Global Perspectives; Thought, Language, and Culture, Diversity Across the Curriculum

Survey of western theatre from eighteenth to twentieth century, with reference to roots and developments in other world cultures.

Offered every year. 3 credits.

TH 245 Acting I

LASC-Creative Arts

Introductory acting theory and practice. Students present brief monologues and scenes on stage.

Offered every year. 3 credits.

TH 246 Voice and Movement

Prerequisite: TH 191, TH 245

Training to strengthen the natural voice, develop diction, learn period movement and develop spatial awareness on and off stage.

Offered every year, 3 credits.

TH 270 History of American Entertainment I

LASC-Creative Arts: United States And It's Role In The World

An historical survey of American popular entertainments from the Colonial period through the end of the nineteenth century. Offered every 2 years. 3 credits.

TH 271 History of American Entertainment II

LASC-Creative Arts; United States And It's Role In The World

An historical survey of American popular entertainments from the rise of film and radio through the great American musicals. Offered every 2 years. 3 credits.

TH 272 History of Costume

LASC-Creative Arts

The history of clothing from ancient times to the present. Lecture/discussion and a research project on a chosen era or culture.

Offered every two years. 3 credits.

TH 275 Introduction to Stagecraft and Design

LASC-Creative Arts

Fundamentals of theatre production including scenic, costume and lighting, focused on the crafts and technology behind the scenes. 30-hour practicum required.

Offered every year. 3 credits.

TH 290 Theatre for Young Audiences

Organization of children's theatre, script selection, visual design, rehearsal and performance. Investigation of creative drama as a teaching tool in elementary education.

Offered every year. 3 credits.

TH 292 Creative Dramatics

Principles and techniques of leading improvised dramatic activities with children and adults. Involves sensory awareness, imagination, movement, and story dramatizations.

Offered every year. 3 credits.

TH 321 Rehearsal and Performance

LASC-Creative Arts

Public performance of full-length stage productions under faculty direction. Students assume performance and/or production "roles" as described in departmental manual.

Offered every year. 3 credits.

TH 345 Acting II

Prerequisite: TH 191,TH 245

Further development of acting skills with emphasis on stage-acting technique.

Offered every year. 3 credits.

TH 348 Stage Combat

LASC-Creative Arts, Individual and Community Well Being

Prerequisite: TH 191

Training in armed and unarmed combat for the stage. Emphasis will be placed on safety and choreography of stage fighting. Offered every year. 3 credits.

TH 355 Theatre Practicum

Practical work on Theatre production in various areas including acting, design, stage management, construction, etc. Offered every year. 1 credit

TH 360 Scenic Design for Theatre

LASC-Creative Arts

Scenic Design for Theatre will include research, drafting, drawing and rendering, model building, and presentation of scenic designs for assigned plays.

Offered every year. 3 credits.

TH 370 Costume Design for Theatre

LASC-Creative Arts

Conceptualization, collaboration, research, figure drawing and rendering, swatching, organization, and presentation of costume designs for assigned plays.

Offered every year. 3 credits.

TH 380 Directing

Prerequisite: TH 245, TH 191

Script selection, casting, scene analysis, blocking, rehearsal techniques, and other concerns of the theatrical director. Students direct short scenes and short plays.

Offered every 2 years. 3 credits.

TH 390 Lighting Design for Theatre

LASC-Creative Arts

Study and exercises in conceptualization, previsualization, collaboration, design presentation, qualities and functions of light, drafting the light plot, and control of theatrical lighting.

Offered every year. 3 credits.

TH 399 Special Topics in Theatre

Will include study of topics on an as needed basis, (i.e., a course in conjunction with a production, or a course for advanced students who wish to pursue further study.)

Offered at the discretion of the department. 3 credits.

Visual and Performing Arts Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

VP 200 Critical Thinking in the Arts

LASC-Creative Arts; Thought, Language, and Culture

The experience of art, music, and theatre to develop individual critical thinking in the similarities and differences among the arts.

Offered every year. 3 credits

VP 210 Contemporary Dance Styles I

LASC-Creative Arts

The study and movement of dance vocabularies in one or more contemporary and modern styles.

Offered every year. 3 credits

VP 300 Interdisciplinary Arts Seminar

Prerequisite: VP 200

Examines examples of contemporary modes of interdisciplinary works of music, theatre, and visual art with the goal of developing an individual, creative aesthetic.

Offered every year. 3 credits

VP 310 Contemporary Dance Styles II

LASC - Creative Arts

Prerequisite: VP 210

The study and movement of contemporary dance vocabularies at the intermediate to advanced level.

Offered every year. 3 credits.

VP 375 Special Topics

A course that varies according to specific student and faculty interest.

Offered as needed. 3 credits

VP 390 Research Seminar

Development of all skills for advanced creative projects and preparation for a life in the arts.

VP 400 Capstone/Senior Thesis

LASC - Major Capstone, Writing Across the Curriculum

Prerequisites: VP 200, VP 300, EN 102

Students research, design, and create works of art, music, and theatre for public presentation and evaluation by a faculty board of review.

Offer every year. 3 credits

VP 405 Independent Study in the Arts

Prerequisite: Permission of instructor.

An opportunity for students to examine topics not ordinarily covered in other arts courses.

Offered every year. 1-3 credits

VP 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

VP 435 Internship in the Arts

Prerequisites: 2 relevant arts courses

Advanced students gain practical experience in a working arts environment.

Offered every year. 3-12 credits.

Sample Timetable for Completion of Degree: Visual and Performing Arts, Interdisciplinary

YEAR ONE

Semester One		
Course No.	Course Name	Credits
LASC	First-Year Seminar	3
EN 101	English Composition I	3
AR	Foundation Choice, Art	3
TH 191	Introduction to Theatre	3
LASC	Constitutions	3
	Semester Subtotal	15

Semester Two		
Course No.	Course Name	Credits
EN 102	English Composition II	3
MU	Foundation Choice, Music	3
AR, MU, or TH	Concentration Requirement	3
LASC	Creative Arts (CA)	3
LASC	Thought, Language, and Culture (TLC)	3
	Semester Subtotal	15

YEAR TWO

Semester Three		
Course No.	Course Name	Credits
VP 200	Critical Thinking in the Arts	3
AR, MU, or TH	Concentration Elective	3
LASC	Natural Systems and Processes (NSP)	4
LASC	The United States and Its Role in the World (USW)	3
LASC	Quantitative Reasoning (QR)	3
	Semester Subtotal	16

Semester Four			
Course No.	Course Name		Credits
AR, MU, or TH	Concentration Requirement		3
AR, MU, or TH	Concentration Requirement		3
AR, MU, or TH	Concentration Requirement		3
LASC	Global Perspectives (GP)		3
LASC	Human Behavior and Social Processes (HBS)		3
		Semester Subtotal	15

YEAR THREE

Semester Five				
Course No.	Course Name	Credits		
AR,MU, or TH	Concentration Requirement	3		
AR,MU, or TH	Concentration Requirement	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
LASC	Global Perspectives (GP)	3		
	Semester Subtotal	15		

Semester Six				
Course No.	Course Name	Credits		
AR,MU, or TH	Concentration Requirement	3		
AR,MU, or TH	Concentration Elective	3		
LASC	Individual and Community Well-Being (ICW)	3		
VP 300	Interdisciplinary Arts Seminar	3		
SELECT	General Elective	3		
	Semester Subtotal	15		

YEAR FOUR

Semester Seven				
Course No.	Course Name	Credits		
LASC	Creative Arts (CA)	3		
LASC	Thought Language and Culture (TLC)	3		
LASC	Human Behavior and Social Processes (HBS)	3		
LASC	Natural Systems and Processes (NSP)	3		
SELECT	General Elective	3		
	Semester Subtotal	15		

Semester Eight				
Course No.	Course Name	Credits		
LASC/ VP 400	Arts Capstone/Thesis	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
SELECT	General Elective	3		
	Semester Subtotal	15		

Once LASC requirements are satisfied, students may select general requirements. Students are required to meet with their department advisor to review their upcoming semester academic choices. A minimum of 120 credits is required for graduation.

World Languages Department of World Languages

Faculty

Nadia Saavedra, Assistant Professor (2016)

B.A., Universidad del Zulia, Venezuela; M.A., Florida State University; Ph.D. Florida State University

Judith Jeon-Chapman, Professor (1993)

B.A., College of St. Benedict; M.A., Ph.D., University of Washington

Antonio Guijarro-Donadiós, Assistant Professor (2014)

B.A., Universidad Couplutense de Madrid, Spain; M.A. Salford University, England;

M.A., Ph.D. University of Connecticut

Ana Pérez-Manrique, Associate Professor, Department Chair (2006)

B.A., Universidad de Málaga, Spain; M.A., University of South Carolina;

Ph.D., Florida State University

Elizabeth Osborne, Assistant Professor (2016)

B.A., The George Washington University; M.A., University de Chile, Chile; Ph.D., Stony Brook University

Courses

See LASC section for information on the Liberal Arts and Sciences Curriculum (LASC).

WL 101 Beginning World Language I

LASC-Global Perspectives

Beginning level I instruction in world languages that are not otherwise offered by the Department of World Languages. 3 credits

WL 102 Beginning World Language II

LASC-Global Perspectives

Beginning level II instruction in world languages that are not otherwise offered by the Department of World Languages. 3 credits

WL 191 Special Topics in World Language

An introductory level curse or current specialized topics related to a world language.

WL 210 Intermediate World Language I

Intermediate level I instruction in world languages that are not otherwise offered by the Department of World Languages.

3 credits

WL 211 Intermediate World Language II

Intermediate level II instruction in world languages that are not otherwise offered by the Department of World Languages.

3 credits

WL 408 Directed Study

Directed study offers students, who because of unusual circumstances may be unable to register for a course when offered, the opportunity to complete an existing course with an established syllabus under the direction and with agreement from a faculty member.

Courses in German and Chinese

Professors Emeriti

Helen G. Agbay, Spanish (1974)

Dr. Joshua U. Aisiku, Education (2009)

Dr. Francisco Alcala, Spanish (1996)

Dr. M. June Allard, Psychology (2005)

Francis I. Amory, Urban Studies (2009)

Dr. Eleanor Ashton, Psychology (2004)

Charles D. Avedikian, Mathematics and Computer Science (1990)

James R. Ayer, Languages and Literature (2000)

Vera M. (Dowden) Baldwin, Education (1974)

Nora M. Barraford, English (1984)

William A. Belanger, Earth, Environment, and Physics (2016)

Dr. Andrea Bilics, Occupational Therapy (2015)

Dr. Elizabeth T. Binstock, Education (2002)

Dr. Richard C. Bisk, Mathematics (2015)

Dr. Lynn G. Bloomberg, Health Sciences (2016)

Dr. Edwin A. Boger, Biology (2000)

Dr. Arnold J. Bornfriend, Business Administration and Economics (2000)

Dr. Margaret P. Bouchard, Education (2016)

Dr. Peter M. Bradley, Biology (2016)

Betsey J. Brenneman, Library (2016)

Dr. Nancy Brewer, Health Science (2012)

Francis L. Brooker, Sociology (2012)

Dr. Anne M. Brown, Nursing (2002)

Dr. Josefina S. Bunuan, Education (1999)

Michael A. Burke, Health Science (1998)

Dr. Philip J. Burns, English (2013)

William Byers, Communications (2002)

Dr. Jean A. Campaniello, Psychology (2002)

Dr. Doris M. Carter, Visual and Performing Arts (1998)

Jacqueline G. Casale, Art (1991)

Dr. Jennie M. Celona, French (1996)

Louis J. Celona, Music (1992)

Dr. Harold L. Chapman, Physics (1988)

Carol Chauvin-Fortier, Biology (1993)

Dr. Yvonne Chen, Health Sciences (2001)

Dr. Kee II Choi, Business Administration and Economics (1992)

Anna B. Cohen, Communication Disorders (1999)

Bruce C. Cohen, History and Political Science (2016)

Dr. Alan D. Cooper, Chemistry (2014)

Phyllis A. Crowley, English (1996)

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Philip S. Dalton, History and Political Science (2000)

Aldona Daly-Boxshus, Psychology (1995)

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Daniel E. Dick, Natural and Earth Sciences (1989)

Dr. John R. Dowling, Education (1998)

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Florence Fraumeni, Education (1985)

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Yvonne Gallant-Martel, French (1977)

Dr. Geoffrey J. Garrett, Physical and Earth Science (2004)

Dr. C. Kenneth Gibbs, English (2010)

James E. Girouard, Physical Education (1985)

Bernard Goldsmith, History and Political Science (1995)

Dr. Merrill H. Goldwyn, Languages and Literature (1998)

Dr. John Goodchild, Chemistry (2013)

Dr. Linda S. Gordon, Languages and Literature (2003)

Loren N. Gould, Natural and Earth Sciences (1993)

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Emmet J. Grandone, Languages and Literature (1998)

Ruth E. Greenslit, Library (1989)

Dr. Ruth Haber, English (2015)

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Dr. Nancy E. Harris, Education (1999)

Dr. Margaret D. Hart, Occupational Therapy (2016)

Dr. Robert J. Hartwig, Business Administration and Economics (2004)

Mary T. Hayes, Education (1974)

Bruce Henry, Mathematics and Computer Science (2001)

Mary Ellen Herx, English (1989)

Dr. Nancy Hicks, Physical and Earth Science (2005)

Dr. W. Mack Hill, Mathematics (2004)

David W. Hilton, Computer Science (1999)

Dr. Donald D. Hochstetler, Library (2012)

Paul A. Holle, Biology (1989)

Richard G. Hunt, Physical and Earth Science (2007)

Ronald W. Hurd, Physical and Earth Science (2004)

Marion J. Jennings, Education (1978)

Alfred C. Johnson, Mathematics (2004)

Jean E. Johnson, English (1990)

Nancy A. Johnson, Education (1995)

Dr. Joline N. Jones-Matheson, Psychology (2006)

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Dr. Joan K. Juralewicz, Education (2002)

Dr. Richard S. Juralewicz, Business Administration and Economics (2001)

Robert G. Kane, History (1999)

George T. Kelley, Economics (1997)

Professors Emeriti

Robert F. Kelley, Physics (1988)

Dr. Baheej B. Khleif, Sociology (1994)

Dr. Richard K. Kimball, Psychology (2016)

Margaret A. Kittredge, Spanish (1995)

Sandra Kocher, Art (1992)

Dr. Ellen V. Kosmer, Visual and Performing Arts (2004)

Professor Marshall J. Kotzen, Mathematics (2013)

Jerome L. Langer, Business Administration (1982)

Edward H. Leonard, Physics (1984)

Robert E. Lingner, Physical and Earth Sciences (2005)

Dr. Mary Lou Lovering, Nursing (2000)

Dr. Augustus N. Luparelli, Business Administration and Economics (2014)

Dr. Carol E. Lysaght, Communication Disorders (1996)

Alison K. Majeau, Library (2016)

Dr. Gordon S. Matheson, Psychology (2004)

Gary W. McEachern, Business Administration and Economics (1998)

Bernard L. McGough, Media (1994)

Robert F. McGraw, History (1991)

Pamela McKay, Senior Librarian, Library (2013)

John F. McLaughlin, Communication Disorders (1996)

Professor, Catherine McNeil, Occupational Therapy (2013)

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Michel D. Merle, Visual and Performing Arts (2005)

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Dennis P. Moore, Business Administration and Economics (2012)

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Professor, Catherine McNeil, Occupational Therapy (2013)

Paul F. O'Neil, Education (1997)

Dr. Juan Orbe, Spanish (2014)

Dr. Chad C. Osborne, Education (2002)

Dr. Ruth Ostenson, Psychology (2002)

Dr. Surindar Paracer, Biology (2013)

Dr. Robert F. Perry, Geography (1987)

Dr. Robert J. Perry, Mathematics (2008)

Vincent Piccolo, Media (1988)

Dr. Frank C. Pizziferri, Sociology (1995)

Dr. Maryann C. Power, Communication Sciences and Disorders (2011)

Dr. Maureen E. Power, Urban Studies (2016)

Dr. Vincent E. Powers, Urban Studies (2000)

Catherine I. Quint, Education (1985)

Dr. David Quist, Education (2003)

Dr. Donald A. Read, Health Sciences (2001)

Dr. Robert Redding, Mathematics (2004)

Dr. Susan V. Rezen, Communication Sciences and Disorders (2008)

Gerald Robbins, Philosophy (2007)

Dr. Jeffrey L. Roberts, Languages and Literature (2001)

Dr. Thomas L. Roberts, Biology (1988)

Evelyn Robinson, Mathematics (1978)

Dr. Helen M. Rogers, Nursing (2006)

Bruce D. Russell, Biology (2003)

Dion Schaff, Philosophy (1993)

Helena Semerjian, Health Sciences (2016)

Robert L. Shafner, Business Administration and Economics (2010)

Helen G. Shaughnessy, Education (1986)

Dr. Courtney Schlosser, Philosophy (2013)

Dr. Maureen D. Shamgochian, Biology (2016)

Dr. Ann Marie Shea, Visual and Performing Arts (2005)

Dr. Emmett A. Shea, History and Political Science (2012)

Dr. Katherine M. Shea, Foreign Languages (1991)

Dr. Robert M. Spector, History and Political Science (2008)

Dr. Maureen C. Stefanini, Business Administration and Economics (2016)

William L. Sullivan, English (1983)

Professor, James J. Swanson, Business Administration/Economics (2015)

Dr. Elaine G. Tateronis, Dean, School of Education Health and Natural Sciences (2012)

G. Flint Taylor, Psychology (1985)

Robert W. Thompson, Physical and Earth Sciences (2005)

Anthony W. Thurston, Biology (1983)

Dr. Donald F. Traub, Philosophy (1998)

F. Stephen Trimby, Business Administration and Economics (2004)

Richard S. Tyrell, English (1994)

Professor David J. Twiss, History/Political Science (2015)

Dr. Andrea J. Wallen, Nursing (2011)

LLoyd P. Wheaton, Chemistry (2002)

Dr. James R. Wicka, Communication Sciences and Disorders (2006)

Dr. Audrey E. Wright, Education (2016)

Dr. Gary G. Young, Business Administration and Economics (2002)

Dr. Cheng Yuan, History and Political Science (2000)

Dr. Manuel Zax, Mathematics (1992)

Faith T. Zeadey, Sociology (2003)

Matthew Zelman, Sociology (2004)

Dr. Estelle C. Zoll-Resnik, Chemistry (1997)

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William B. Aspinwall 1912-1939

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> Joseph J. Orze 1975-1982

Philip D. Vairo 1982-1991

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Janelle C. Ashley 2002-2011

Barry M. Maloney 2011-

Administrative Offices

Office of the President

Barry M. Maloney, President of the University (2011)

B.S., M.A., University of Maine, Orono

Renae Lias Claffey, Assistant to the President for Campus Communications (2013) Graduate Certificate, Economic and Social Development of Regions, B.A., University of North Carolina Chapel Hill

Patrick D. Hare, Staff Assistant (2014)

B.S., M.S., Worcester State University

Carl A. Herrin, Assistant to the President for International, Community and Government Affairs (2012)

B.A., Georgetown University

Nicole Kapurch, Special Assistant to the President (2012)

B.A., Worcester State College

Academic Affairs

Anthony K. Adade, Associate Vice President & Chief Information Officer, Information Technology Services (2013) B.S., Northeastern University; M.S., Ph.D., Lesley University

Rosemary Ahmadi, Staff Associate/Instructional Designer, Information Technology Services (2014) B.A., Worcester State College, M.A., Clark University

Matthew Bejune, Executive Director of the Library (2013)

B.A., University of Massachusetts, Amherst; M.S., Syracuse University

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B.A., Villanova University; M.S., Simmons College

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Worcester Technical Institute

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Index

A	
Academic Achievement Awards Ceremony	54
Academic Advising	5 ⁻
Academic Calendar	94-96
Academic Honesty	35
Academic Policies and Procedures	35
Academic Probation	60
Academic Reprieve Policy	6 ⁻
Academic Scholarships	92
Academic Standing	60
Academic Success Center	52
Academic Support Services	52
Accreditation	
Add/Drop (Course)	55
Administration Building, Helen G. Shaughnessy	1
Administrative Offices	473
Administrative Withdrawal	55
Admission, Undergraduate	18
Application Process: First-Year Student	18, 2 ⁻
Application Process: Transfer	19 24
Eligibility Index	18
International Applicants	2 ⁻
Joint Admissions	25
Non-Degree Programs	27
Non-Traditional Applicants	20
Advanced Placement	18, 6 ⁻
Advising	5 ⁻
Affordability and Accessibility	80
Alternatives for Individual Development	20
Alumni Association's Advisory Board	483
American Antiquarian Society Seminar	64
American Chemical Society	64
Appeal of Dismissal	62
Appeal Procedure	62
Application Process	23
Arabic	303
Art, VPA	305
Athletics and Recreation	70
Attendance	59
Audit Procedure Policy	56
В	
Baccalaureate Degree Requirements	
Bioinformatics	
Biology	
Biotechnology	
Bookstore	
Business Administration	306

C	
Calendar, Academic	
Campus, Directions to and Campus Map	
Campus Facilities	
Campus Ministry	
Career Services	
Chandler Village (Residence Facility)	
Change of Catalog Information	
Change of Grade	
Change of Major/Minor	
Chemistry	
College Academic Program Sharing (CAPS)	
College Level Examination Program (CLEP)	
Communication	320
Communication Sciences and Disorders	165
Community Relations	
Computer Science	173
Corequisites	54
Counseling Services	72
Course Credit	54
Course Numbering System	54
Course Overload	55
Course Repeat	55
Criminal Justice	341
D	
_	EC
Dean's List Degree Programs, Undergraduate	
Degree Requirements, Baccalaureate, Second Baccalaureate	
Department Challenge	
Department of Higher Education Board Members	
Dining Services	
Disability Services (see Student Accessibility Services)	70.70
Discipline Information	
Dowden Hall (Residence Facility)	12
E	
Economics	350
Education	186
Emeriti, Professors	466
Employment Opportunities for Students	90
English	
English-Second Language (ESL) Students	
Enhanced Learning Opportunities	
Ethnic Studies	
Evening Undergraduate Program	
Examination Schedules	
F	
Faculty (See Individual Academic Programs)	
Family Educational Rights and Privacy Act (FERPA)	
Federal College Work-Study Program	91
Fees	80
Francis at the decree directs	0.0

Residence Halls	82
State Supported Courses	82
Summer Programs	66
Financial Aid	86
Financial Information	80
First-Year Experience Requirement	45
Food Service Plan	83
French	373
G	
	010
Geography and Earth Sciences	
•	
Global Studies	
•••	
Grade Point Average	
Grading System	
Graduation Honors	5/
Graduation Requirements.	
Grants, Scholarships, Waivers	
Grants, Scholarships, Walvers	07
H	
Health Education Major	237
Health Forms	73
Health Insurance	73, 84
Health Sciences	232
Health Services	73
Higher Education Consortium of Central Massachusetts (HECCMA)	64
History	376
Honors Program	53
Immunization Requirements	73
Incomplete Grades	
Independent Study	
Information Technology	
Intensive English Language Institute	
Intent to Graduate	
International Applicants/Programs	
Internships	
K	
Kalyan K. Ghosh Science and Technology Building	11
Laptop and Technology Requirement	50
Learning Disability	
Learning Resource Center	
Leave of Absence	
Liberal Arts and Sciences Curriculum (LASC)	50, 60
LASC (CA, HBS, ICW, GP, NSP, QR, TLC, USW, WAC, DAC, QLAC)	11-10
Library (Learning Resource Center)	
Loans	

M	
Majors and Minors: Undergraduate Programs	16, 17, 50
Map of Campus and Directions	491
MassTransfer	25
Mathematics	249
Math Lab Services	52
Matriculation	42
May Street Building	12
MCPHS University - Massachusetts College of Pharmacy and Health Sciences (See Biology, Biotechnology, Chemistry, Enhanced Learning Opportunities, Natural Science sections)	
MCPHS University/WSU Articulation Agreement	33 232
Minors	
Mission	
Multicultural Affairs	
Music, VPA	390
N	
Natural Science (see Environmental Science)	
New England Regional Student Program	
Non-degree Programs	
Nondiscrimination, Policy on	
Nursing	265
0	
Occupational Studies	287
Off-Campus Courses	66
Officials of Worcester State University	470
Organizations, Student	75
Outdoor Facilities	12
P	
Pass/Fail Option	56
Peer Mentors	52
Pharmacy Program with Massachusetts College of Pharmacy and Health Science, Accelerated (See Biology, Biotechnology, Chemistry, Enhanced Learning Opportunities, Natural Science sections)	
Philosophy	391
Physical Education	391
Physics	298
Placement Services (See Career Services)	72
Political Science	
Post-baccalaureate Students	
Pre-Law Program	
Pre-Medical, Pre-Dental, Pre-Veterinary, Pre-Pharmacy Advisory Program	
Prerequisites	
Presidents of Worcester State University	
,	
Probation and Dismissal	00

 Professors Emeriti
 466

 Prologue
 7

 Psychology
 401

 Public Relations (See Community Relations)
 14

R	
Refund Policy	84
Registration Information	54
Reinstatement	30, 61, 80
Reprieve Policy, Academic	6 ⁻
Residence Fees	82-83
Residence Life and Housing (Residence Halls)	12, 74
Right-to-Know Act	34
Room and Board	83
ROTC (Reserve Officer Training Corps)	67
6	
S Scholarships, Grants, Waivers	Q-
School of Education, Health and Natural Sciences	
School of Humanities and Social Sciences	
Science and Technology Building, Kalyan K. Ghosh	
Second Baccalaureate	
Services for Students	
Sociology	
Spanish	
Special Non-Matriculated Students	
•	
Student Activities and Organizations	
Student Activities and Organizations	
Student Center	
Study Abroad	
Summer Programs	
T	
Theatre, VPA	434
Title IV Funds, Return of	85
Title IX	9
Transcripts	57
Transfer Students, Undergraduate	19
Trustees of Worcester State University	47
Tuition	82
Tuition Surcharge	8 ⁻
Undergraduate State-supported (Day) Program	80
Tuition Waivers	88
Tutoring Services	52
U	
Undergraduate Studies	
University Advancement, Office of	
University Police	
Upward Bound	
Urban Studies	
V	
Veterans Information	
Visual and Performing Arts, Interdisciplinary	445
Vocational Technical Students	0.0

W

Waivers, Grants, Scholarships	88
Warning Status	60
Washington Center for Internship and Academic Seminars	66
Wasylean Hall (Residence Hall)	
Wellness Center	11
Withdrawal from Courses	55
Withdrawal from Worcester State University	30, 60
Women's Studies	118
Worcester Center for Crafts	
Norcester State University Alumni Advisory Board	483
Worcester State University Board of Trustees	471
Worcester State University Foundation Board Members	484
World Languages	464
Writing Center	52 364

Directions to the Campus

By Auto

From Massachusetts Turnpike (I-90):

Take Exit 10 (Auburn) to Rt. 290 East. (see from 290 East)

From Rt. 495:

Take Exit 25 to Rt. 290 West. (see from 290 West)

From Rt. 9 West:

Follow Rt. 9 West into Worcester. (see from Highland Street)

From Rt. 146 North:

Take Rt. 146 North to Rt. 290 East. (see from 290 East)

From Rt. 190 South:

Take Rt. 290 West. (see from 290 West)

From Rt. 290 West:

Take Exit 18 (Rt. 9 West); turn right off exit ramp and stay in center lane, following directions for Rt. 9 West. Turn right onto Rt. 9 West, also known as Highland Street. (see from Highland Street)

From Rt. 290 East:

Take Exit 17 (Rt. 9 West); turn left onto Rt. 9 West which will turn into Highland Street at the bottom of the hill.

Proceed up the hill onto Highland Street. (see from Highland Street)

From Highland Street:

While on Highland Street, stay in the right lane. Stay on Highland Street for 1.5 miles. (You'll pass Elm Park and Doherty High School on the left.) At the rotary, take the third right onto June Street. At the second light, turn right onto May Street. The main entrance to the University will be three blocks ahead on the left.

Pleasant St

Kelly Square Follow Rt. 122N to WSU

Worceste

State University

For more information on public transportation, airport and carpooling, visit www.worcester.edu/directions



For GPS Purposes - Main Campus:

486 Chandler Street, Worcester, MA 01602