

GRADUATE CATALOG

2013–2014



WORCESTER STATE UNIVERSITY

GRADUATE SCHOOL

**486 Chandler Street • Worcester, Massachusetts 01602 Graduate and
Continuing Education • Administration Building—4th Floor
Main Phone: 508-929-8127 • www.worcester.edu/graduate**



WORCESTER STATE UNIVERSITY

GRADUATE SCHOOL

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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-funded university governed by a local Board of Trustees under the direction of the Higher Education Coordinating Council, 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, the 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, a public metropolitan institution of higher learning located in a culturally vibrant region of the Commonwealth, affirms the principles of liberal learning as the foundation for all traditional liberal arts and sciences disciplines, while maintaining its historical focus on teacher education. It has expanded its offerings with professional degree programs in biomedical sciences, business, and the health professions. Through its curricula, the University addresses the intellectual and career needs of the increasingly diverse citizenry of central Massachusetts. Worcester State University is dedicated to offering high quality, affordable undergraduate and graduate academic programs and to promoting global awareness, lifelong intellectual growth, and career opportunities of its students. To this end, the University values teaching excellence rooted in scholarship and community service; cooperates with the business, social and cultural resources of Worcester County; collaborates with other institutions of higher learning in the region, and develops new programs responsive to emerging community needs.

Undergraduate information is available in the Undergraduate School Catalog which may be obtained in the Admissions Office.

Accreditation

Worcester State University is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering postgraduate instruction. Accreditation of an institution by the New England Association 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 New England Association 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 about the quality of opportunities available to students who attend the institution.

Inquiries regarding the status of an institution's accreditation by the New England Association 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 graduate programs are accredited by their respective professional organizations: Nursing, The Commission on Collegiate Nursing Education; Speech-Language Pathology, the American Speech-Language-Hearing Association; Occupational Therapy, Accreditation Council for Occupational Therapy Education; Education, Massachusetts Department of Elementary and Secondary Education; and Education-School, Psychology, DESE, National Association of School Psychologists (NASP). Please refer to department chapters for addresses and telephone numbers of the accrediting organizations.

GRADUATE PROGRAMS WITH PROFESSIONAL ACCREDITATION

Graduate Program	Accrediting Body
Speech-Language Pathology	<ul style="list-style-type: none"> • Council on Academic Accreditation (CAA) of the American Speech-Language Hearing Association • Approved by the Massachusetts Department of Elementary and Secondary Education (DESE)
Occupational Therapy	<ul style="list-style-type: none"> • Accreditation Council for Occupational Therapy Education (ACOTE)
Nursing	<ul style="list-style-type: none"> • Commission on Collegiate Nursing Education (CCNE) • Massachusetts Board of Registration in Nursing
Education	<ul style="list-style-type: none"> • Massachusetts Department of Elementary and Secondary Education (DESE) • Currently undergoing an accreditation review by Teacher Education Accreditation Council (TEAC)
Education - School Psychology	<ul style="list-style-type: none"> • Massachusetts Department of Elementary and Secondary Education (DESE) • National Association of School Psychologists (NASP)

Policy on Nondiscrimination

The University is committed to a policy of nondiscrimination, equal employment opportunity, and affirmative action in its educational programs, activities, and employment practices.

The University 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 Board of Higher Education, the Board of Trustees, the Commonwealth of Massachusetts, and other applicable state and federal statutes. The Director of Diversity may be contacted at 508-929-8117 regarding the University's policy of nondiscrimination and affirmative action (including compliance with Section 504 of the Rehabilitation Act of 1973, as amended).

Family Educational Rights and Privacy Act

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

1. Inspect and review their education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the 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 the University to amend a record that they believe is inaccurate or misleading. They should write to the 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 the University decides not to amend the record as requested by the student, the 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' education records without the written consent of students except to personnel within the institution, to officials of other institutions in which students seek to enroll, to persons or organizations providing students' financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order, and to 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 school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility. At its discretion the institution may provide Directory information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degree and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, height and weight of members of athletic teams, and other similar information. 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. The 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 the University. In compliance with the Family Educational Rights and Privacy Act of 1974, as amended, the 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.

The Campus

Worcester State is located on 58 acres facing Chandler Street in the residential west side of Worcester. It is within an hour's drive of all major population centers in New England and combines urban convenience with a suburban setting. Worcester State is convenient to Interstate Highways 90 (Massachusetts Turnpike), 190, 290, and 495. The campus is served by buses of the Worcester Regional Transit Authority and by the shuttle bus service of the Worcester Consortium for Higher Education. 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. It houses streamlined student services in an "academic mall" on the first floor as well as the Admissions Office on the second floor and Academic Affairs on the third floor. Also on the second floor are the President's Office and Conference Room, the Fuller Theater, and Institutional Advancement (including alumni relations, development, and public relations and marketing). The third floor is also home to Administration and Finance, Institutional Research and Assessment, Human Resources, Payroll and Benefits, Diversity and Affirmative Action. The Division of Graduate and Continuing Education and the Intensive English Language Institute are located on the fourth floor. 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.

Gymnasium

The Gymnasium contains indoor athletic and recreational facilities, including the Oscar Larsson Fitness Center. It also houses the Health Services and athletics administrative offices as well as art studios and classrooms.

Kalyan K. Ghosh Science and Technology Building

The Science and Technology Building is a state-of-the-art building designed to house the sciences including: Academic Computing, Communication Sciences and Disorders, Occupational Therapy, Computer Science, Biology, Biotechnology, Chemistry, Geography and Earth Science, Geology, Natural Science and Physics, Health Science and Nursing. The building contains 30 science, therapy and computer labs; offices for faculty and staff; conference/seminar rooms; and student discussion areas. This facility also houses a 200-seat Multimedia Classroom and the University's art gallery.

Learning Resources Center

The Learning Resources Center (LRC) houses the library, a comfortable place for study and research with over 142,000 volumes and approximately 1000 current periodicals. A CD-ROM network provides ready access to several resources electronically and a new library system will soon offer easy catalog and Internet searching capabilities. The library is a member of the Worcester Area Cooperating Libraries (WACL), a joint effort of 15 academic, public, and special libraries to facilitate the sharing of resources and provide advanced techniques in library and information science. A book delivery shuttle service operates daily during the academic year and weekly during the summer to facilitate interlibrary loans to students, faculty and staff. WACL extends cross-borrowing privileges to all full-time and permanent part-time faculty and high-level administrators. Individually issued WACL cards permit direct loans from member libraries.

The Learning Resources Center also encompasses a complex of modern telecommunications and electronic learning facilities including University Technology Services. The campus-wide computer

network, maintained by University Technology Services, provides Internet connections to the outside world from the computer labs and student email accounts.

Also in the LRC are television studios and a production facility, and photographic laboratories. An instructional media center provides media to support the teaching and learning process while media production services is equipped for production of slides and tapes. The offices for library staff, Facilities, Publications and Printing Services, and the Communication and the Criminal Justice academic departments are located in this building along with seminar rooms, classrooms, and lecture halls.

Outdoor Facilities

The 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, field hockey, and tennis courts.

Residence Halls

Residence Halls at Worcester State provide housing to approximately 1,200 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. It is named for Vera Dowden Baldwin '34, M.Ed. '53, whose connection with Worcester State spanned 70 years. She joined the faculty in 1957, and she also served as supervisor of student teachers, dean of women, and the first dean of students in 1970.

Wasylean Hall 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 sandwich shop on the first floor. Wasylean Hall is home to the Office of Residence Life and Housing and the University Police. It is named for Phillip M. Wasylean II '63.

Student Center

The Student Center is available as a resource for the entire Worcester State community and is conveniently situated at the geographical center of the campus. The first floor of the Student Center contains the following resources: Food Court and dining area, Worcester State bookstore, Information Desk, and the Print Center. The first floor also has several meeting/programming spaces including the North/South Auditorium, Blue Lounge, Exhibit Area and One Lancer Place. The second floor houses the Student Center/Student Activities Office, Conference and Event Services, and Commuter Services/Weekend Programming. Small meeting rooms, WSCW Radio Station and Student Government offices, and the Charter Business TV Lounge—a lounge for commuters and residents with pool tables, ping-pong, video games and several TV's, are also located on this floor. The third floor holds several Student Affairs offices including the Vice President of Student Affairs, Career Services, Counseling Office, Dining Services, Judicial Affairs and Multicultural Affairs. Student organization offices, including the Student Senate, Student Events Committee, Third World Alliance, the student newspaper, yearbook and more, are also located on this floor as well as the main cafeteria and additional meeting 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 Auditorium), 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, the Center for Teaching and Learning, and the Women's Studies Program office.

Community Relations

The University values its connections with the greater community, which includes 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 multicultural events. The University's calendar includes numerous programs and events to which the public is welcomed.

The Office of Institutional 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 Marketing and Public Relations to produce the *Worcester Statement*.

The Marketing and Public Relations office develops and implements the University's marketing and public relations initiatives. The office oversees all media relations, including the creation of press releases and news stories, and promotes various community outreach activities. The office is responsible for developing content and managing production of the *Worcester Statement*, the *President's Annual Report*, *Quick Facts*, and various brochures and information pieces. The office also oversees editorial content for the University's website.

Change of Catalog Information

This catalog was prepared in summer of 2013, 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 the University to provide advance notice of changes whenever it is reasonable and practical to do so.

GENERAL GRADUATE ADMISSION INFORMATION

The Graduate School Mission Statement

The Graduate School at Worcester State University is the leading public graduate school serving citizens of Central Massachusetts and New England. The school's mission is to provide high-quality graduate education that facilitates research, creative activity, and scholarship. The programs offered are designed to prepare graduates to take on leadership roles within their organizations or professions and to contribute to the greater good of an ever-emerging global society.

The Graduate School offers Masters Degrees in the areas of Education, Administration, Arts and Sciences, and Allied Health. In addition, Certificates of Advanced Graduate Study are awarded in Education. The programs are designed to incorporate a close interdependence between research and practice, as well as faculty and students.

Graduate Education

Graduate education is both exciting and challenging. Academic expectations are higher than at the undergraduate level, but the career rewards in terms of both financial gain and self-esteem are also higher.

At the graduate level students begin to focus explicitly on a single discipline or professional program. Here students attain a level of knowledge in their field whereby they are considered masters in it. Indeed, some contribute to the world of scholarship through research leading to a thesis or publication. Those students pursuing a practice-oriented master's degree demonstrate mastery through a project, a practicum, or an internship. While for many students a master's degree serves as a terminal degree, others continue at the doctoral level where new contributions to the world of scholarship are required.

Graduate students seriously pursue a specific area of study. There are no longer broad distribution requirements to fulfill as there are at the undergraduate level. Students acquire knowledge and demonstrate expertise in their field through the completion of course work, seminars, colloquia, field placements, and internships, as suitable to their area of study.

One goal of graduate study is to prepare the student to become an independent scholar or practitioner. Graduate students are expected not only to read assigned articles, but to search for other related articles to obtain a deeper understanding of the issues. In some fields, they are expected to design, implement and evaluate experiments, drawing conclusions and making recommendations. As in course work, field work, or internship experiences at the graduate level are intensive and integrative in nature. Graduate students are expected to be reflective and creative in approaching all graduate learning experiences.

Some scholars consider perseverance the sine qua non of success in graduate school. Adapting to the more rigorous standards and more intensive learning experiences at the graduate level can be challenging and intellectually productive. Since research often leads to unexpected discoveries which may require the student to rethink and redesign the research project persistence and dedication are essential. Preparation for exams, which is done independently, also demands consistent, self-motivated hard work. All of these experiences provide a gateway to further personal and professional development.

A desirable feature of graduate education is mentorship: a relationship between a professor and a student in which the professor not only advises the student about reaching scholarly or practical goals, but also joins in discussion of ideas, theories and practices within the student's chosen field. While mentorship is not a requirement for either faculty or students, those professors and graduate students who take part in it gain professionally from the experience. Graduate education offers an opportunity for students to explore new academic and professional horizons and to experience the joy of learning and of scholarship. There is an excitement of discovery that is contagious, and those who catch it are justly proud of their achievement.

Degree Programs Master

of Arts in English Master of
Arts in History Master of
Arts in Spanish
Master of Science in Biotechnology
Master of Science in Nursing
Master of Science in Health Care Administration
Master of Science in Management
Master of Science in Nonprofit Management Master of
Science in Speech-Language Pathology Master of
Occupational Therapy (MOT)
Master of Education in:
 Early Childhood Education
 Elementary Education
 English as a Second Language
 Health Education
 Leadership and Administration
 Middle School Education Moderate
 Special Needs Reading
 Secondary School Education

Certificate of Advanced Graduate Study Programs

Reading/Language Arts
Educational Leadership
School Psychology (Includes M.Ed., three year full-time program) Secondary
Education

Post-Baccalaureate Programs

Middle School Initial Licensure Program Secondary
School Initial Licensure Program Reading Specialist
Initial Licensure Program Moderate Special Needs
Initial Licensure Program
School Leadership and Administration Initial Licensure Program
English as a Second Language
Graduate Craft Certificate
Post-Master's Certificate in Nursing Education

Admission

Applicants for admission to graduate studies must have completed a baccalaureate degree program at an accredited institution. To be considered for admission, applicants must also meet the minimum eligibility requirements listed below.

Priority Admissions Deadlines

With the exception of Speech-Language Pathology, Occupational Therapy, and the CAGS programs that follow separate deadlines, completed applications received by the following dates will be reviewed for admissions decisions prior to the respective semesters.

June 15	Fall semester
November 1	Spring semester
April 1	Summer semester

Only completed applications will be reviewed for admissions decisions. All application materials become the property of Worcester State University and will not be returned. Ordinarily, applications received after a deadline will be considered for the following semester.

Unconditional Acceptance:

1. Minimum Undergraduate GPA of 2.75
2. Score in the top 50% on the Graduate Record Exam (GRE), Miller's Analogies Test (MAT), or General Management Aptitude Test (GMAT). GMAT is required for the Master of Science in Management, and is preferred for Master of Science in Health Care Administration.

Conditional Acceptance:

1. Meet one of the criteria of Unconditional Acceptance
2. Receive Departmental Approval
3. Maintain a "B" or better through the first four courses

Only applicants who have already received a graduate degree from an accredited institution in addition to a baccalaureate will be exempted from taking the GRE, MAT or GMAT. Applicants from foreign countries in which English is not the language of instruction, must also submit a score of 61 or above on the Test of English as a Foreign Language (TOEFL) or a score of 6 or above on the International English Language Testing System (IELTS).

Persons denied admission because they do not meet the above stated eligibility index, but who exhibit strong credentials for their selected field of study, will be considered for an alternate form of admission. Following the admissions review, applicants will be advised in writing if this alternative is available to them.

Each applicant must supply the following materials:

- an official transcript with calculated GPA from the institution awarding the baccalaureate;
- an official transcript from each graduate institution awarding degree(s) or course credit beyond the baccalaureate (All transcript materials requested by the applicant become the property of Worcester State University and cannot be released to the applicant or to other institutions or agencies.);
- a completed application form for graduate study along with remittance of the application fee (\$40.00 for all students);
- two current letters of recommendation; (three for Management applicants)
- career plan/occupational history essay (approximately 500 words);
- evidence of completion of applicable departmental admission requirements;

- where applicable, official results of the GRE, MAT or GMAT, and TOEFL or IELTS;
- Tuition residency statement (for the Masters of Occupational Therapy applicants).

*Since up to six weeks may elapse between the test date and receipt of scores, applicants should take the examination well in advance of the application deadline.

Note: The application deadline for the Master of Science in Speech-Language Pathology program is February 1, for entrance in the Fall semester. Because of the sequence of course offerings, the Fall semester is the only entrance period for the program. Deadline for Master of Occupational Therapy is March 1 for Fall admission. Please contact the Program Coordinator for CAGS deadlines.

Pre-entrance immunization requirements: Massachusetts State Law (Chapter 76, Section 15C) requires that each full-time graduate student born after 1956 present evidence of immunization in order to register for classes. Health Insurance: Massachusetts General Laws, Chapter 15A requires that certain students enrolled in institutions of higher education carry health insurance under a qualifying student health insurance program. Coverage for degree-seeking graduate students is required if they register for seven (7) or more semester hours of credit. For additional information, see page 241 about participation in and charges for the University's plan. 508-929-8875.

Graduate Teacher Certification Programs

Worcester State University encourages current teachers and those individuals who wish to change their careers to become teachers to pursue graduate education. If you are already a teacher with partial or full certification, Worcester State University encourages you to continue your professional development by matriculating into a master's program.

If you are changing careers to become a teacher, you may begin taking courses with the advice of an advisor, but are encouraged to apply to admission as soon as possible. As a prerequisite for admission, however, you need to demonstrate that you are certified at least at the temporary license stage.

To obtain temporary licensure you must apply to the Massachusetts Department of Elementary and Secondary Education, Office of Teacher Certification and Credentialing. Applications and information about the application process can be obtained by looking online at http://www.doe.mass.edu/Educators/e_license.html?section=k12 or by contacting 781-338-6600. In addition to demonstrating competence in the subject that you intend to teach (usually satisfied with a bachelor's degree in the subject area), candidates for temporary licensure as of April 1998 must pass the Massachusetts Teacher Test. Applications for these tests can also be obtained from the Department of Elementary and Secondary Education.

Test dates are located at http://www.mtel.nesinc.com/MA_ann10testdates.asp.

Degree Requirements

Please refer to specific program requirements.

SERVICES FOR STUDENTS

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

Athletics and Recreation

The Athletics and Wellness office is an integral part of Worcester State's efforts to provide a high quality, affordable education and supportive environment that promotes the total development of our students. The 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 sportsmanship qualities.

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

As a Division III member of the National Collegiate Athletic Association (NCAA), the Massachusetts State College Athletic Conference (MASCAC), the Eastern College Athletic Conference (ECAC), and the New England Football Conference (NEFC), Worcester State offers baseball, basketball, cheerleading, cross-country, field hockey, football, golf, ice hockey, soccer, softball, tennis, track and field, volleyball and women's lacrosse.

For those students interested in competing on a less formal level, Worcester offers an intramural sports program. The program includes touch football, coed football, basketball, tennis, street hockey, softball, soccer, volleyball, and golf. Any student who wishes to participate in intramural sports, regardless of ability or past experience is urged to do so. For the recreational athlete, Worcester State also offers open gym time and a well-equipped fitness center. Students may also find part-time employment through the intramural director as supervisors and officials.

Campus Ministry

Campus Ministry at Worcester State seeks to enable students, faculty and staff to grow spiritually in their faith journey as they work and study in the Worcester State setting. Through interfaith programs, suppers, counseling and fellowship opportunities, the Campus Ministry seeks to bring a religious dimension into the everyday life and conversation of the Worcester State 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.

University Bookstore

All required course materials for classes are available at the WSU 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 your class schedule. The Bookstore also stocks school supplies, specialty books and a wide variety of gifts and clothing imprinted with the WSU logo.

Used Textbooks—We stock many used copies of textbooks, but the supply is limited and they sell quickly. Shop early for the best selection of used books.

Rent-A-Text—Students will have the option to use Rent-A-Text through the University bookstore saving on average half the price of a new book. You'll need to complete the short rental agreement online or at the register in the store. You 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. You can pick up rental textbooks in store or order online and have them shipped to your home.

Textbook Rental Return Policy—Any student who uses the University Bookstore Book Rental Program must abide by the contract 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 not be

able to register for the next semester. An administrative hold will remain in place until the student pays the balance owed. 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 to your 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 One Card. 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 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 it 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

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. We believe that safety is everyone's responsibility and encourage our 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 Police officers enforce the rules and regulations of Worcester State 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 community.

The University Police and Parking Clerk's offices are located on the first floor of Wasylean Hall.

Counseling Services

Counseling Office

The Counseling Center assists students in coping with personal issues that interfere with their academic and personal development and sense of well-being. Individual counseling is available to those who are seeking assistance. Group counseling may also be available on an as needed basis. Specialized counseling is available for individuals who have experienced sexual trauma at any point in their life. The staff of the Counseling Center is also able to assist students with academic concerns.

The Counseling Center provides services to undergraduate and graduate students and is located on the third floor of the Student Center. To make a counseling appointment, please call 508-929-8072.

Career Services

Career Services provides students with the opportunity to explore career fields and occupations and conduct self-assessment, link career planning to academic planning, obtain experience in a variety of professional areas, and make a successful transition from college to career or to further schooling. We have a wide variety of services and resources available. Please visit our website at www.worcester.edu/careerservices, or visit our office and the Career Resource Center on the third floor of the Student Center. Appointments with a Career Counselor are available year round to currently matriculated students and alumni. Please call us at 508-929-8072 to make an appointment or if you have any questions. We look forward to serving you.

Disability Services Office (DSO)

Worcester State and the Disability Services Office (DSO) are committed to providing services that will enable students who qualify under Section 504 of the Rehabilitation Act and the Americans with Disabilities Act (ADA) to participate fully in the activities of Worcester State. The DSO is the primary support system on campus for students living with disabilities. Services have been established to ensure that facilities, activities, and programs at Worcester State are accessible to all students.

Current and comprehensive documentation is required from all students who request services, and it must demonstrate that the student's disability substantially limits one or more major life activities. For specific documentation criteria, please visit the DSO website at www.worcester.edu/dso. Accommodations and services are individually determined based on the functional limitation(s) that are identified by the diagnostic evaluation and during the intake interview.

An intake appointment is necessary to officially register with the DSO to review documentation and subsequently receive reasonable accommodations. Once registered with the DSO, it is the responsibility of the student to request accommodations on a semester-to-semester basis. A learning specialist, who provides time management, organizational, self-advocacy and academic strategies, is available to students registered with the DSO.

Please contact the DSO for more information. The DSO is located on the first floor of the Administration Building, Room 131. Telephone: 508-929-8733, fax: 508-929-8214, email: dso@worchester.edu, or web: www.worcester.edu/dso.

Health Services Office

Graduate students do not typically access the University's Health Services Office. However, services may be provided for a fee. Please contact 508-929-8875 for more information. During the academic year a full-time nurse practitioner, two part-time practitioners, and a part-time physician staff the office. Office hours are Monday, Tuesday, Wednesday and Thursday 8 a.m. to 8 p.m.; and Friday 8 a.m. to 4 p.m. During the summer months when the Health Services Office is closed, emergencies are referred to Worcester State Police.

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 Therapy, and Communication Sciences and Disorders) must present evidence of immunization in order to register for classes. 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; and 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; 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. Tetanus immunization is available at Student Health Services free of charge, for accepted students. 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 Report of Medical History form, completed by a physician, in order to register for classes. All resident students must have a complete Worcester State 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 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 full time students will be enrolled in and charged for the Worcester State Student Health Insurance Program. Students who do not wish to participate in Worcester State's plan must 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 classes are not required to participate.

Lancer Dining Services

Worcester State Dining Services is managed by Chartwells, a Division of Compass Group North America. Chartwells is proud to present to you the "Profiles in Good Taste" at Worcester State. It's an unforgettable dining experience; passion and practicality; ingenuity and sensibility. Great food and exciting environments combined with our pride of service transform the ordinary into the unexpected.

Locations and Hours of Operation

There are five dining locations on campus The Lancer's Loft Café, The Food Court, LRC Starbucks Café, Outtakes C-Store and Java Junction. To find out about hours of operations, menus, prices, specials and upcoming events go to www.dineoncampus.com/wsu.

Meal Plans

Chartwells offers a wide variety of meal plans to both resident students and commuters. To find out more information about meal plans and see which plan is right for you please visit www.dineoncampus.com/wsu.

Student Activities and Organizations

A variety of cultural, social and service activities complement classroom instruction at Worcester State including films, lectures, novelty acts, comedy, and live musical performances. Students are encouraged to participate in one or more of the student organizations: the Student Events Committee, WSCW radio, Dance Company, Yearbook, The Student Voice Newspaper, Worcester State Pride Alliance, Student Government Association, Third World Alliance, Campus Ambassadors, the Dance Team, the Surreal Club, the Commuter Advisory Board, Lancervision TV, special interest groups, and honor societies, more than 25 in all.

There is an active Student Government Association with a President, Student Trustee, and a Student Senate comprised of elected representatives from each class. Annual campus events include Welcome Week, Family/Homecoming Weekend, Senior Capping, Winter Week, Commuter Appreciation Week, Spring Week, Multicultural Festival, and Fashion Show.

Veterans Information

The Registrar's Office provides general information of interest to veterans and dependents of veterans enrolled at Worcester State. Spouses and dependents of 100% disabled or deceased veterans wishing to inquire about possible veterans' benefits should contact this office.

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.

DISCIPLINE/IMPORTANT PHONE INFORMATION

University Switchboard: 508-929-8000

Web Site: www.worcester.edu

Discipline	Location Sponsoring Department	Phone Departmental Website	Fax
Art	Learning Resource Center (L132B) Visual Performing Arts	508-929-8145 www.worcester.edu/art	508-929-8166
Biology	Science & Tech Bldg (ST310) Biology	508-929-8569 www.worcester.edu/biology	508-929-8148
Biotechnology	Science & Tech Bldg (ST310) Biology	508-929-8569 www.worcester.edu/biotech	508-929-8148
Business Adm.	Sullivan Academic Center (S203) Business Administration &	508-929-8091 www.worcester.edu/business	508-929-8048 Economics
Chemistry	Science & Tech Bldg (ST410) Chemistry	508-929-8583 www.worcester.edu/chemistry	508-929-8171
Communication	Learning Resource Center (L332B) Communication	508-929-8829 www.worcester.edu/communication	508-929-8170
CommSci Disorders	Science & Tech Bldg (ST115L) Communication Sciences & Disorders	508-929-8055 www.worcester.edu/csd	508-929-8175
Computer Science	Science & Tech Bldg (ST110) Computer Science	508-929-8832 www.worcester.edu/cs	508-929-8156
Criminal Justice	Learning Resource Center (L120) Criminal Justice	508-929-8000 www.worcester.edu/cj	
Economics	Sullivan Academic Center (S203) Business Administration & Economics	508-929-8091 www.worcester.edu/economics	508-929-8048
Education	Sullivan Academic Center (S226) Education	508-929-8671 www.worcester.edu/education	508-929-8164
English	Sullivan Academic Center (S303) English	508-929-8154 www.worcester.edu/english	508-929-8174
French	Sullivan Academic Center (S303) World Languages	508-929-8154 www.worcester.edu/french	508-929-8174
Geography	Science & Tech Bldg (ST410) Physical & Earth Sciences	508-929-8583 www.worcester.edu/geography	508-929-8171
Health	Science & Tech Bldg (ST110Q) Health Science	508-929-8832 www.worcester.edu/health	508-929-8176

Discipline	Location Sponsoring Department	Phone Departmental Website	Fax
History	Sullivan Academic Center (S327) History & Political Science	508-929-8162 www.worcester.edu/history	508-929-8155
Math	Sullivan Academic Center (S145) Mathematics	508-929-8912 www.worcester.edu/math	508-929-8197
Music	Learning Resource Center (L132B) Visual Performing Arts	508-929-8145 www.worcester.edu/music	508-929-8166
Natural Science	Science & Tech Bldg (ST410) Physical & Earth Sciences	508-929-8583 www.worcester.edu/natsci	508-929-8171
Nursing	Science & Tech Bldg (ST222) Nursing	508-929-8129 www.worcester.edu/nursing	508-929-8168
Occ. Therapy	Science & Tech Bldg (ST210B) Occupational Therapy	508-929-8624 www.worcester.edu/ot	508-929-8178
Philosophy	Sullivan Academic Center (S316) Philosophy	508-929-8162 www.worcester.edu/philosophy	508-929-8155
Physical Education	Science & Tech Bldg (ST110Q) Health Science	508-929-8832 www.worcester.edu/physed	508-929-8176
Physics	Science & Tech Bldg (ST410) Physical & Earth Science	508-929-8583 www.worcester.edu/physics	508-929-8171
Political Science	Sullivan Academic Center (S327) History & Political Science	508-929-8162 www.worcester.edu/history	508-929-8155
Psychology	Sullivan Academic Center (S241) Psychology	508-929-8159 www.worcester.edu/psychology	508-929-8172
Sociology	May Street Building (TBA) Sociology	TBA www.worcester.edu/sociology	
Spanish	Sullivan Academic Center (S303) World Languages	508-929-8154 www.worcester.edu/spanish	508-929-8174
Theatre	Learning Resource Center (L132B) Visual Performing Arts	508-929-8145 www.worcester.edu/theatre	508-929-8166
Urban Studies	Sullivan Academic Center (S129) Urban Studies	508-929-8940 www.worcester.edu/urbanstudies	508-929-8144
Visual/Perform Arts	Learning Resource Center (L325) Visual Performing Arts	508-929-8145 www.worcester.edu/vpa	508-929-8166
World Languages	Sullivan Academic Center (S303) World Languages	508-929-8154 www.worcester.edu/worldlang	508-929-8174

GRADUATE FINANCIAL AID INFORMATION

General Information

Graduate 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, and accepted for enrollment, in a degree-granting or federally approved certification program at Worcester State University. Graduate students are eligible for Federal Loans and/or Federal Work Study funds. Applicants must also meet all eligibility requirements and must be in good academic standing. Financial aid is awarded to students with demonstrated financial need, i.e., the amount by which the total cost of college/university attendance (including reasonable costs for room, board, books, transportation, and other personal expenses) exceeds 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 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 should complete and submit a Free Application for Federal Student Aid (FAFSA) and a Worcester State University Financial Aid Application prior to the deadlines indicated below. Late applicants for financial assistance will be given full consideration for maximum funding as long as resources are available. Applicants for financial assistance are not required to submit tax forms unless requested by the Financial Aid Office. Renewal of financial aid is not automatic; eligibility must be re-established by applying on an annual basis.

Deadlines

- March 1—All first year undergraduate and graduate applicants for the Fall of 2013
- March 1—All returning undergraduate and graduate applicants for the Fall of 2013
- November 1—All first year applicants, transfers, for the Spring of 2014
- For summer sessions applications are due for undergraduate and graduate students by the add/drop date for the summer session you wish to register for. Students must register for at least 6 credits total for summer sessions in order to qualify for financial aid. Applications for summer financial aid take about three weeks to process.

Entrance Interviews & Master Promissory Notes

All first time borrowers are required to complete a federally mandated Federal Loan entrance interview and a Master Promissory Note. Loan funds will not be applied to a student's account until these obligations are fulfilled.

Exit Interviews

Students who have received Federal and/or State Student Loans at any time during their academic careers are required to complete an exit interview prior to any leave of absence, upon withdrawal or graduation from the University.

Programs and Resources

State Employees' Tuition Remission: State employees and their dependents who 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.

Massachusetts Rehabilitation Benefits Program may provide assistance to eligible students. Contact the Massachusetts Rehabilitation Commission for further information.

Veterans' Benefits: The Veterans' Administration has approved Worcester State University for the purpose of providing Veterans' 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.

The Federal Perkins Loan: is a federal program administered by the University. It offers long term, low interest loans to undergraduate and graduate students. T

Federal Direct Loan: is a federally subsidized program whereby the federal government makes long term, low interest loans to undergraduate and graduate students enrolled at least half-time. Students must have completed a financial aid application before their Direct loan application will be processed. Graduate limits are up to \$8,500.00 per year. Federal Unsubsidized Direct Loan Program: is a federal loan program that is not subsidized (no interest paid) by the federal government. Graduate student limits range up to \$12,000.00 per year.

Graduate Assistantships: Graduate assistantships are available for matriculated students taking at least six semester hours each semester. For information and an application call the Graduate Office 508-929-8125.

Generally funds for graduate students are limited to the Federal Direct and Perkins Loan Programs in addition to the Federal Work Study Program. Applicants who are taking courses that are pre-requisites for graduate degree, may be eligible for Direct Loan funds for up to one year.

Tuition Information

Tuition for evening undergraduate courses is currently \$130 per semester hour of credit. Tuition for graduate courses is currently \$150 per semester hour of credit. Tuition and fees are payable at the time of registration and may be made by bank check, money order, personal check, or credit card; cash will not be accepted. Financial aid may be used when the student is enrolled in at least six credits per semester. Graduate students enrolled in a minimum of nine graduate credits are considered full-time.

Graduate Programs

Graduate Tuition (per credit):

- \$150.00

Graduate Fees (per credit):

- \$114.50

Special Fees:

- Student Teaching \$75.00 per course
- Lab Instruction \$60.00 per course
- Art Model Fee \$25.00 per course
- Field Work Supervision \$15.00 per credit
- Internship \$15.00 per credit
- Practicum \$15.00 per credit
- Transcript \$ 5.00 per copy
- Rush Transcript \$10.00 per copy
- Nursing Clinical \$320.00 per course

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

Course Cancellation/Processing of Tuition Refunds

Worcester State University 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

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 \$1,155.00 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 University Refund Policy

Applicability

This refund policy applies to all full-time and part-time students enrolled in regularly scheduled classes at Worcester State University other than those attending Worcester State University 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 the University 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 the University entirely—must be done in writing to the Registrar's Office, following the procedures established for that purpose.

Withdrawal Refund Policy

Refunds for withdrawal from the University 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 the University)
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 the University 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 the University 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 University, a student must petition for release with the Director of Residence Life. Such release is not guaranteed, **and the University 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-time and part-time students enrolled in regularly scheduled classes at Worcester State University 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 the University 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 the University 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 the University 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 Direct Loan
- Federal Subsidized Direct 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 the University.

FALL 2013 ACADEMIC CALENDAR

September

- 3 Pre-College Conference
- 4 Classes begin: day, evening, graduate**
- 11 Last day to add day courses (state-supported)
- 18 Last day to drop day courses (state-supported)
- 18 Last day to add/drop evening/graduate courses (non state-supported)

October

- 8 Last day to makeup Incomplete grades from Spring/Summer 2013
- 14 Columbus Day: NO CLASSES**
- 16 Last day to declare/change major or minor
- 21 Failure warnings due in the Registrar's Office
- 25 Failure warnings issued to students
- 10/28-11/8 Advising for pre-registration

November

- 1 Last day to withdraw from courses/school
- 11 Veterans' Day NO CLASSES**
- 12 Last day to elect Pass/Fail option
- 12-26 Pre-registration for Spring 2014 **27-**
- 30 Thanksgiving Recess**

December

- 2-6 Student evaluation of the faculty
- 9 All classes end**
- 10 Reading Day
- 11-19 Final Exams-day classes
- 20, 23 Make-up days for exams postponed due to inclement weather
- 31 Semester ends**

SPRING 2014 ACADEMIC CALENDAR

January

- 20** **Martin Luther King Day: NO CLASSES**
21 **Classes begin: day, evening, graduate**
28 Last day to add day courses (state-supported)

February

- 4** Last day to drop day courses (state-supported)
4 Last day to add/drop evening, graduate courses (non state-supported)
17 **President's Day: NO CLASSES**
25 Last day to make up *Incompletes* from Fall 2013

March

- 12** Last day to declare/change major or minor
17 Failure warning due in Registrar's Office
21 Failure warnings issued to students
17-22 **Spring Break: NO CLASSES**
3/24-4/4 Advising for Pre-registration
28 Last day to withdraw from courses/school

April

- 7-23** Pre-registration for Fall 2014
9 Last day to elect Pass/Fail status
21 **Patriot's Day: NO CLASSES**
4/28-5/2 Student evaluation of faculty

May

- 6** **All classes end**
7 Reading Day
8-16 Final Exams-day classes
17 **Commencement and end of semester**

ACADEMIC POLICIES AND PROCEDURES

Academic Honesty

We expect students to maintain standards of honesty and integrity in all aspects of their academic careers. Academic dishonesty violates the very nature of our academy. Its scope includes plagiarism, lying, tampering and falsifying reference materials, and theft. Plagiarism and cheating consist of any attempt by a student to represent the work of someone else as his or her own. It includes, but is not limited to submitting, copying, or substantially restating the work of another person or persons in an oral or written work without citing the appropriate source; collaborating with someone else in an academic endeavor without acknowledging that contribution; and copying the answers of another student in an examination. Worcester State University will not tolerate plagiarism or cheating in the classroom in any fashion. The penalties for academic deceit are severe and unawareness is not an acceptable justification. The instructor may fail the student or enforce another appropriate penalty concerning academic dishonesty. The official policies and procedures of the University's response to academic dishonesty are outlined in the Graduate Student Handbook, in the section "Worcester State University Student Code of Conduct and the Judicial System."

Matriculated vs. Non-Matriculated Status

A matriculated student is one who has been accepted into and is enrolled in a degree/licensure program at the University. Non-Matriculated status indicates that a student has registered for and is taking a course(s) at the University without being formally accepted into a program. A graduate applicant is allowed to take courses prior to being accepted into a graduate degree program, but no more than 2 courses will be permitted to apply toward the master's degree.

Residency

All candidates for the master's degree must complete a minimum of 33 semester hours of credit, all of which must be earned exclusively in graduate-level courses. Only credits for which students have earned a grade of "B-" or higher within a two-year period immediately prior to the effective term of admission are transferable from an accredited institution, including credits earned at Worcester State University. A maximum of 12 such graduate credits may be accepted. Acceptance of transfer credits is the responsibility of the full-time faculty in the relevant discipline in conjunction with the Graduate Education Council. In all instances, no more than 12 semester hours of credit may be earned at any institution other than Worcester State University.

Term Limit

All requirements for a graduate program must be completed within six years of the effective term of admission to a program. Candidates eligible for graduation must signify their intention by completing and submitting to the Graduate Office an Intent-to-Graduate form. Students completing a Master's degree or CAGS program must include a check for the \$15.00 Commencement fee. The fee covers the cost of the diploma, invitations and other expenses associated with graduation. Deadlines for filing are: **March 15** for a May graduation, **June 15** for an August graduation, and **October 15** for a December graduation. If candidates plan to participate in the May Commencement, they will need to complete a regalia order form and pay the cost of the cap, gown and hood. Both forms are available in the Graduate Office or candidates may request to have them mailed to them.

Transfer Credit

Only credits for which students have earned a grade of “B-” or higher within a two-year period immediately prior to the effective term of admission are transferable from an accredited institution, including credits earned at Worcester State University. A maximum of 12 such graduate credits may be accepted. Acceptance of transfer credits is the responsibility of the full-time faculty in the relevant discipline in conjunction with the Graduate Council. Faculty may request syllabi to determine equivalencies. In all instances, no more than 12 semester hours of credit may be earned at any other institution other than Worcester State.

Comprehensive Examination

To receive a Master of Science degree in Biotechnology, or Master of Education degree with a concentration in Health, History or English, a candidate is required to pass an oral or written comprehensive examination in his or her field of concentration. Refer to program descriptions in this catalog for additional information.

Academic Standing

Matriculated students will be dismissed from their graduate program if they do not maintain a cumulative GPA of 3.0, or if they receive two grades of C+ or lower. In addition, grades below a B- are not acceptable for degree credit. Dismissal requires absence from the University for one semester, pending action on an appeal, if submitted.

Independent Study

No more than three semester hours of credit in independent study may be applied to the satisfaction of requirements of any graduate degree program. Independent study contracts, available in the Office of Graduate Studies, must be completed and filed with the Registrar by the last day of registration for a semester. Independent studies are granted only in extenuating circumstances.

Attendance

Because each class meeting constitutes a substantial portion of the work in an evening or summer course, students are expected to attend all scheduled class meetings. If absent for any valid reason, the student should inform the instructor and arrange to make up classwork and assignments.

Leave of Absence

Matriculated students may request a leave of absence for up to one year by completing a leave of absence request form available in the Office of Graduate Studies. In extenuating circumstances, at the discretion of the Dean of Graduate and Continuing Education, a student may be granted an extension. Approved leave time is not counted against allowable program length.

Transcripts

Official transcripts of course work 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 writing the request. 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 \$5.00 per copy; “rush” transcripts are \$10.00 per copy. Payment must accompany the request in the form of a check made payable to Worcester State University.

Grading System

The grading system for graduate studies employs the letter grades A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, U (unsatisfactory work no credit awarded), W (withdrawn) and I (incomplete). Departments will choose one of the following grading systems:

Grades below B- are not acceptable for degree credit. Option 1:

A, A-, B+, B, B-, C+, C, U, W, I

Option 2: A, A-, B+, B, B-, C+, C, C-, D+, D, D-, E, U, W, I

Incomplete Grades

When circumstances prevent a student from completing a course on time (e.g., illness), 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 official calendar for the year indicates the date to resolve incompletes from the previous term. If the requirements are not met within the appropriate period, the incomplete will automatically become an “U,” and is 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 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.

Withdrawal from Courses

Official notice of withdrawal from a course must be made on a form available at the Registrar’s Office. The official date of withdrawal is that on which the completed form is received by the Registrar’s Office. The deadline for withdrawal from a course is indicated in the official calendar. A grade of “W” will be recorded in each case of a withdrawal from a course. Failure to attend class meetings does not constitute official withdrawal from a course, and a student who merely ceases attending will receive the grade of “U.”

Course Repeat

Students who wish to repeat a course must file a course repeat form. These forms are available in the Graduate and Continuing Education Office. Only the higher of the two grades is computed in the cumulative GPA. A course may be repeated only once. Both the old and the new grade will appear on the transcript.

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.

Withdrawal from Program

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 must contact the Graduate School in writing.

Audit Grade for Graduate Courses

Audit grades for graduate courses will satisfy the needs of the following students:

- Professionals interested in taking courses to learn the latest information in the field, and who are not interested in graduate credit or a graduate degree.
- Students who wish to test the likelihood of continuing in a particular field of study.
- Teachers and other professionals who are interested in re-certification or in meeting licensing requirements and wish Professional Development Points(PDPs) or Continuing Education Units (CEUs) and not graduate credit. The following rules apply:
- The cost of an audited course will be the same as the cost of a credit bearing course.
- Students will have to declare at registration that audit is their choice; they will not be able to switch to credit-bearing status after registration.
- Similarly, students cannot switch from credit-bearing to audit status after registration.
- Audit will not be possible in practicum or internship courses, or in any courses where the instructor deems participation, such as group or team work, essential for the success of the course.
- Students who audit a course are governed by the same attendance policies as apply to the enrolled students in that course.
- Students may repeat any course for credit they have audited.

Pass/Fail Grades for Graduate Courses

Although the Pass/Fail grade for graduate courses is not normally an option, there are three cases in which the option will be available:

1. For professionals returning for current information and not a degree, but who wish to receive credit for personal or professional reasons.
2. At the discretion of the academic department, in courses such as practica or internships for which a supervising professional oversees the educational experience.
3. Courses offered with the Professional Development (PD) identifier are offered on a Pass/Fail basis and may not be used towards graduate degrees at Worcester State University.

A student who has elected the pass/fail option under one of the above three conditions may not at a later time convert the pass/fail grade to a specific letter grade.

Posthumous Degree Policy

Definition:

A deceased student may be considered a candidate for a posthumous degree when nominated by the dean of the college in which the student was enrolled at or prior to his or her death, and when minimum academic degree requirements have been verified by the Registrar. Posthumous degrees may be awarded at the undergraduate and graduate level.

Requirements for Nomination:

1. A student must have been in good academic standing with the institution at the time of death. Good standing is defined as not being academically deficient for their classification (academic probation, continued probation, suspension or expulsion).
2. University requirements for earned credits in residence must have been satisfied.
3. Student must have been enrolled at time of death (summer excluded), unless his or her continuous enrollment was interrupted by injury, illness, deployment, etc.

4. An undergraduate or graduate student must have completed at least 75% of degree requirements, as determined by the Registrar, to be nominated for a posthumous degree.

Nomination/Approval Process:

1. Anybody may identify a candidate for a posthumous degree, but such a suggestion must be made to the Dean of the appropriate school for consideration to begin the formal process.
2. The student's degree audit file shall be obtained from the Registrar's Office to verify program/ plan and progress toward degree completion.
3. The Dean of the school in which the student was enrolled will recommend the candidate for a posthumous degree in the form of a formal written request to the Provost/Vice President for Academic Affairs. The request must include the name and ID of the student, the degree/program/ plan to be awarded, and the recommended semester for degree conferral.
4. If supported by the provost, the provost will submit the recommendation to the university president for formal approval. If approved by the president,
 - a. The provost will notify the registrar to begin the process for degree posting and commencement proceedings, if applicable.
 - b. The President or his/her designee will inform the representative of the decedent's estate of the university's decision and desire to recognize their student with this honor (this process should be kept confidential until and unless approved at all levels). If the representative of the decedent's estate agrees and desires to represent the student and receive the diploma at a commencement ceremony, this must be relayed to the registrar for planning. The representative of the decedent's estate has the right to refuse.

Miscellaneous Details/Considerations:

1. A posthumous degree will be printed in commencement programs. If the representative of the decedent's estate chooses not to participate, this award may still be read during the ceremony (unless explicitly requested otherwise by the family).
2. If the student had financial debt to the university, this debt will be waived.
3. Exceptions to the aforementioned minimum requirements may be considered in special cases, with the support of the Dean and Provost and approval of the president.
4. The statement "awarded posthumously" will be printed on both the student's academic record and on the diploma.

Graduate Grade Appeal Procedure

Prior to invoking the use of the graduate grade appeal procedure, individuals should exhaust all informal means available to resolve questions concerning specific grades.

The graduate grade appeal procedure is designed to resolve questions regarding student grades when one or more of the following is at issue:

1. there is reason to believe that a mechanical error in calculating a grade has occurred;
2. there is reason to believe that a grade has been calculated in a manner which is inconsistent with the stated grading policy.

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

Within ten working days of the availability of the grade in question, 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 Graduate and Continuing Education.

Step 4

If, within ten working days of the receipt of the request in Step 3, the Dean of Graduate and Continuing Education 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 Academic Vice President.

Step 5

Within ten working days of the receipt of the request in Step 4, the Academic Vice President shall inform the student, faculty member, Department Chair, and Dean of Graduate and Continuing Education of the results of the Vice President's review.

The appeal process ends at this point.

Academic Dismissal Appeal Procedure

If dismissed for academic deficiency, students may appeal for reinstatement. Appeals must be made in writing to the Chair of the Graduate Education Council, and must be submitted within ten working days following notification of dismissal. Students will be notified in writing of the decision of the Council.

1. A student's written appeal to the Council must include: the student's name/Identification Number/program; a discussion of the circumstances contributing to the academic deficiency; and permission for Graduate Education Council to review academic records.
2. The Graduate Council will consider the appeal at its next scheduled meeting.
3. In its written response to the student, the Council will outline the conditions rationale of its action:
 - a) if the appeal is granted, Council will outline conditions of reinstatement and time frame for program continuation/ completion
 - b) if the appeal is denied, the student is administratively withdrawn from the program; he/ she may not re-apply to the same program; and cannot apply for re-admission to another program for 12 months.
4. A second dismissal for academic deficiency is not subject to appeal.
5. Evaluation of academic standing will take place after each semester/session.

Non-Academic Dismissal Appeal Procedure

After the Dean has sent the decision of the Graduate School to dismiss a student for non-academic reasons, the student may appeal using the following process.

A student dismissed for non-academic reasons may appeal the decision of the Graduate School to the Vice President for Academic Affairs. This appeal must:

- a) Be in writing,
- b) Be submitted within 10 business days of receiving the Graduate School's decision,
- c) The decision of the Vice President for Academic Affairs is final.

Address appeal to:

**Vice President for Academic Affairs
Worcester State University
486 Chandler Street
Worcester, MA 01602**

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Louise Taylor, Staff Assistant, University Advancement (2004)

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CERTIFICATE OF ADVANCED GRADUATE STUDIES (CAGS)—EDUCATIONAL LEADERSHIP

Coordinator of Leadership Programs: Dr. Audrey E. Wright Phone: 508-929-8594

Email: awright1@worchester.edu

CAGS Educational Leadership

(Foundations + Core + Electives = program total of 32 credits)

Candidate must meet the following prerequisites:

1. Earned Master of Education or Master's in Related Field- Minimum GPA 3.0
2. Possession of an Initial license in school administration
3. Completion of a one-year induction program with a mentor.

Foundations: (15 credits) (Three credit hours may be in foundations relevant to initial licensure)

ED 987	Social, political and cultural issues in education	3 credits
ED 988	Brain Based Learning	3 credits
ED 989	Technology and educational leadership	3 credits
EA 939	Action Research Project I	3 credits
EA 940	Action Research Project II	3 credits

Total Foundations: 15 credits

* EA 931	Administration of programs for children with special needs	3 credits
* NM 954	Ethics, professionalism, and leadership <u>OR</u> BA 962 Ethics and social responsibility of leadership	
	Pre-requisite: completion of 12 hours of foundation	3 credits
* EA 941	Research Forum	
	Pre-requisites (completion of 27 hours in the program)	2 credits

Students may select 9 credit hours from below, with the permission of the Program Coordinator

EA 927	School Plant and Development	3 credits
ED 925	Communication and Interpersonal Skills <u>OR</u>	
BA 972	Motivation and Leadership Teams	3 credits
NM 950	Unions and the Public Sector <u>OR</u>	
EA 933	Collective Bargaining Strategies	3 credits
NM 951	Effective Grant Proposals and Fund Raising Strategies	3 credits
BA 961	Organizational Development and Change <u>OR</u>	
EA 942	Systems Analysis and Strategies for Institutional Change	3 credits
NM 940	Leadership Skills and Group Dynamics; <u>OR</u>	
BA 960	Leadership Theory and Skills	3 credits
EA 920	School Business Management and Administration	3 credits
ED 965	Principles of Curriculum Development <u>OR</u>	
ED 968	Seminar in Curriculum and Instruction	3 credits

Total required hours: 15 Foundations, 8 core, and 9 elective. 32 credits

CERTIFICATE OF ADVANCED GRADUATE STUDIES (CAGS) IN EDUCATION—CONCENTRATION IN READING/ LANGUAGE ARTS

**Reading Graduate Coordinator: Dr. Margaret Pray Bouchard Phone:
508-929-8840**

Email: mbouchard@worchester.edu

The CAGS in Reading program is designed for the candidate who currently holds an earned Master of Education or Master's in a Related Field and who is seeking to expand his/her reading specialist licensure to include a certificate of advanced graduate study.

The program is designed to promote a philosophy of teaching reading and language arts that is based on a thorough knowledge of reading/language arts theory, research, and major educational trends. The CAGS in Reading provides the candidate with a program of advanced study designed to build on the candidate's professional knowledge in the areas of reading, language arts and educational research and technologies.

OPTION I. The program is open to candidates who first have completed the graduate level, non-degree reading specialist licensure WSU program at the initial license level in good standing (minimum GPA 3.0). The candidate has the option of applying fifteen credits of the non-degree program as a specialty core to the CAGS program of 32 credits. Please refer to Master of Education— Reading New Field/Non-Degree program (Track 3).

OPTION II. The program is open to candidates who currently hold licensure as a reading specialist (initial or professional level) and teaching license, as well as an earned Master of Education or Master's in Related Field and are seeking to build on their expertise as a reading specialist by attaining a certificate of advanced graduate study in reading. The candidate completes fifteen credits of a advanced reading specialty core, as well as, 15 credits of CAGS foundation courses and a 2 credit capstone research forum for a total CAGS program of 32 credits.

The program of study is designed to allow the candidate to integrate their extensive subject knowledge in the area of reading with contemporary educational resources and research. The CAGS foundation courses provide a knowledge base in the areas of social, political & cultural issues, technology and leadership, and contemporary educational trends, such as brain-based and problem-based learning. The candidate participates in an action research project (6 credits) which allows the candidate to engage in programmatic uses and application of the knowledge research base gained from coursework and field experiences related to reading/language arts. Finally, the research forum serves as the student's capstone experience and provides the candidate with the opportunity to present his/her research findings at the WSU sponsored research forum and to engage in professional interdisciplinary discussion.

Standards for this program are based on those developed by the Professional Standards and Ethics Committee and the Advisory Group to the National Council of Accreditation of Teacher Education Joint Task Force (1992), as well as, Professional Standards for Teachers set forth in 603CMR 7.08 and Subject Knowledge Requirements for Reading Teachers set forth in 603 CMR 7.07(2).M

Admission Requirements

Students applying to the CAGS in Reading program will be required to meet the competencies established by the graduate program for all candidates seeking a Certificate of Advanced Graduate Study through Worcester State University. In addition, students will be required to demonstrate evidence of:

- Earned Master of Education or Master's in Related Field - Minimum GPA 3.0,
- Hold current Massachusetts Educator Licensure as a Reading Specialist (initial or professional level),
- Passed all required Massachusetts Test for Educator Licensure (MTEL) exams, before formal acceptance to the CAGS program.

Course of Study

The Reading CAGS program provides candidates with two options:

OPTION I.

The program is open to candidates who first have completed the graduate level, non-degree reading specialist licensure WSU program at the initial license level in good standing (minimum GPA 3.0). The candidate has the option of applying fifteen credits of the non-degree program as a specialty core to the CAGS program of 32 credits. Please refer to Master of Education—Reading New Field/ Non-Degree program (Track 3).

Upon acceptance, the candidate meets with the program coordinator to complete a formal program of study. Fifteen credits of the non-degree program licensure program are transferred as the specialty core courses to the CAGS program of 32 credits. The candidate then progresses through the CAGS foundation courses (15 credits). The course of study culminates in the 2 credit capstone experience which includes the presentation of a summative portfolio and the candidate's action research findings at the WSU research forum.

OPTION II.

The program is open to candidates who currently hold licensure as a reading specialist (initial or professional level) and teaching license, as well as an earned Master of Education or Master's in Related Field and are seeking to build on their expertise as a reading specialist by attaining a certificate of advanced graduate study in reading. The candidate completes fifteen credits of an advanced reading specialty core, as well as, 15 credits of CAGS foundation courses and a 2 credit capstone research forum for a total CAGS program of 32 credits.

Upon acceptance, the candidate meets with the program coordinator to complete a formal program of study. The candidate must complete a reading specialty core of fifteen credits which have been pre-approved by the Graduate Reading Coordinator. The candidate also progresses through the CAGS foundation courses (15 credits). The course of study culminates in the 2 credit capstone experience which includes the presentation of a summative portfolio and the candidate's action research findings at the WSU research forum.

The program consists of the following courses:

CAGS Foundation Courses for Reading Concentration:

Foundations: (15 credits)

ED 987	Social, political and cultural issues in education	3 credits
ED 988	Brain Based Learning	3 credits
ED 989	Technology and educational leadership	3 credits
EA 939	Action Research Project I	3 credits
EA 940	Action Research Project II	3 credits
Total Foundation Cores:		15 credits

Reading Specialty Core Area: (15 credits)

Option 1: Initial Licensure Program Reading Electives transferred from completed WSU graduate non-degree program: 15 credits

(Courses must be pre-approved by Reading Graduate Coordinator)

Please see Master of Education—Reading, New Field/Non-degree Program and courses.

Option 2: CAGS Reading Core 15 credits

Candidate must take 15 credits/five courses from the approved reading program electives or special topics and not previously used to satisfy initial license.

(All Courses must be pre-approved by Reading Graduate Coordinator)

ER 925	Reading Research Forum (Capstone Experience)	2 credits
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Total specialty core courses required 17 credits

Capstone Experience: Research Forum (2 credits). Each area of concentration (Reading) will include a 2 credit capstone experience/research forum

A course designed to synthesize information gained from coursework and field experiences related to area of concentration.

1. A summative portfolio that reflects the appropriate Massachusetts professional standards is required.
2. Students plan and present research relevant to their concentration.
3. Students can only register for the research forum course as their last course or concurrently last.

CERTIFICATE OF ADVANCED GRADUATE STUDIES (CAGS)—SCHOOL PSYCHOLOGY

**School Psychology Graduate Program Coordinator: Dr. D.Tighe Cooke Phone:
508-929-8673**

Email: dcooke@worcester.edu

The WSU School Psychology Program is a specialist level program, approved by the National Association of School Psychologists (NASP). Students receive a Certificate of Advanced Graduate Studies (CAGS) in School Psychology at the culmination of three years of full time study. Upon completion, students may receive Institutional Endorsement to obtain the credential of School Psychologist in the state of Massachusetts. The CAGS is awarded upon successful completion of 69 credits combined planned program of study including supervised full-time practicum (600+ hours) and supervised full-time internship (total 1200+ hours), completion of an acceptable professional portfolio, and successful performance on a comprehensive examination. Candidates must satisfy all other graduate and degree requirements. Institutional endorsement for professional credential as a school psychologist requires a passing score on the Massachusetts Teacher Educator Licensing Examination (MTEL), and sitting for the Praxis II exam and successful completion of all CAGS components.

The CAGS in School Psychology Program admits students for the fall semester only. The Priority Application deadline for submitting an application is March 1. The School Psychology Program welcomes application from students who share our interests in commitment to the delivery of psychological services in a diverse society. Diversity among students in the program is expected, however it is anticipated all applicants will possess a Bachelor's degree, with appropriate course work or complete such coursework during the beginning phases of training.

Following formal application and meeting criteria for admittance to the Graduate School at Worcester State University, the School Psychology Program utilizes multiple criteria for admission:

1. An overall undergraduate grade average of a B
2. An undergraduate major or concentration in Psychology*
3. Passing score on the MTEL Communication and Literacy Skills Test is strongly recommended.

**Students may be admitted to the program from a variety of academic backgrounds. However, it is expected that an appropriate number of courses in psychology may be required in the initial phases of training. The faculty reserves the right to determine those courses to be taken. This preparatory coursework will not directly apply to the Course requirements for the C.A.G.S. in School Psychology.

We offer you a cadre of professionals, faculty, adjunct faculty and clinical supervisors who view ourselves as partners and mentors with our students, as you undertake this arduous, yet satisfying journey.

For information regarding the application process and requirements please go to
<http://www.worcester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

For information regarding the MTEL test please go to:
<http://www.mtel.nesinc.com/>

For information regarding the PRAXIS tests please click on the following link.

<http://www.ets.org/portal/site/ets/menuitem.1488512ecf%20d5b8849a77b13bc3921509/?vgnextoid=21a32d3631df4010VgnVCM10000022f95190RCRD&vgnnextchannel=31025ee3d74f4010VgnVCM10000022f95190RCRD>

For descriptions of the school psychology courses please go to:

<http://worchester.edu/Graduate/Shared%20Documents/GradPsychologyCourses.aspx?PageView=Shared>

FALL YEAR ONE

- EP 901 Introduction to School Psychology: Ethical Standards, Legal Issues and Professional Topics
- EP 920 Research, Design and Evaluation
- EP 902 Intro to Counseling Theory, Practice and Psychotherapy
- EP 903 Principles of Cognitive and Psycho-Educational Assessment & Intervention I EP 903L Assessment/Intervention Lab

SPRING YEAR ONE

- EP 904 Principles of Cognitive and Psycho-Educational Assessment & Intervention II EP 904L Assessment/Intervention LAB
- EP 905 Assessment for Intervention: Social, Emotions and Behavior EP 921 Human Development: Lifespan
- EP 927 Exceptionalities: Identification, Processes & Intervention

SUMMER YEAR ONE

- EP 907 Child and Adolescent Psychopathology EP 930 Group Processes, Theories and Practice

FALL YEAR TWO

- EP 906 Personality Assessment
- EP 922 Child and Adolescent Psychotherapy
- EP 923 Learning: Principles, Theories and Applications EP 990 Seminar & Practicum in School Psychology I

SPRING YEAR TWO

- EP 925 Advanced Counseling Theory, Practice and Psychotherapy EP 929 Fundamentals of Consultation: Theory and Practice
- EP 926 Family Systems: Theory and Practice
- EP 991 Seminar & Practicum in School Psychology II

SUMMER YEAR TWO

- EP 908 Community Psychology
- EP 924 Principles of Neuropsychology

FALL YEAR THREE

- EP 928 Applied Neuropsychology in the Schools
- EP 992 Seminar & Internship in School Psychology I

SPRING YEAR THREE

- EP 932 Seminar: Neuropsychology in Schools (Elective) EP
993 Seminar & Internship in School Psychology II

This is a full-time program totaling 69 credits after 3 years (6 consecutive semesters, 2 complete summers, Spring graduation)

School Psychology Graduate Courses

EP 901 Introduction to School Psychology: Ethical Standards, Legal Issues and Professional Topics

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

Historical foundations and current status of education, introduction to special education, basic legal and ethical issues, professional roles, and the relationship of school psychologists to other educational and mental health team members are addressed. Attention is focused on federal and state legislation, special and regular education case law, psychological practice case law, and ethical standards, reasoning processes, and conduct in applied settings. Consideration is given to the ethical standards of practice as they relate to legal mandates and court decisions concerning psychological practice in the schools.

3 credits

EP 902 Introduction to Counseling Theory, Practice and Psychotherapy

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

The study and critical analysis of the major counseling theories and elements of effective psychotherapy as they apply to the counseling process. An introduction to counseling skills with focus on the various techniques used with individuals, groups and families. Essentials of interviewing, note taking and report writing, and the role of diagnosis will be examined. Tapes and role plays may be utilized.

3 credits

EP 903 Principles of Cognitive and Psycho-Educational Assessment and Intervention I

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program director. Laboratory fee.

This course is one of two required courses designed to introduce testing and assessment in psychology and education. Students in School Psychology will develop expertise in individual test administration, scoring, interpretation, and report writing. Contemporary issues pertinent to the assessment of intelligence are covered. Emphasis is placed on synthesizing and integrating information from cognitive and achievement assessment with other sources to generate effective educational recommendations. Registration in separate lab required.

3 credits

EP 903L Assessment/Intervention I LAB

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program director. Laboratory fee.

Assessment/Intervention I: Basic Processes Lab 0
credits

EP 904 Principles of Cognitive and Psycho-Educational Assessment and Intervention II

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director. Laboratory fee.

The second (of 2) required course sequence designed for Students in School Psychology to develop expertise in individual test administration, scoring, interpretation, and report writing with an emphasis on linking assessment and intervention. Contemporary issues pertinent to the assessment of intelligence are covered. Emphasis is placed on synthesizing and integrating information from cognitive and achievement assessment with other sources to produce effective educational recommendations. Registration in separate lab required.

3 credits

EP 904L Assessment/Intervention II: Special Populations LAB

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director. Laboratory fee.

Assessment/Intervention II: Special Populations Lab 0
credits

EP 905 Assessment for Intervention: Social, Emotions and Behavior

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

This course is a supervised experience in administration and interpretation of ecologically valid psychological data including personality, social-emotional and behavioral measures. Various approaches include the collecting of data which may include history taking, direct observation, behavior rating scales, interviews, self-report inventories, and select projective techniques.

3 credits

EP 906 Personality Assessment

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

Administration, scoring and interpreting projective tests and personality tests that pertain to the assessment of personality in children and adolescents. Advanced level in integrating results from different measures in report writing.

3 credits

EP 907 Child and Adolescent Psychopathology

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

Covers DSM-IV and major forms of psychopathology with focus on those disorders first diagnosed in Infancy, Childhood and Adolescence. Acquire understanding of developmental and behavioral disorders of childhood through adolescents including psychosomatic, conduct disorders, organic disorders, among others. Thorough knowledge of specific pathologies and conditions through intensive reading and research. Reviews the relationship between categories of special education disabilities and DSM-IV.

3 credits

EP 908 Community Psychology

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.
Various models for psychological interventions as they relate to community needs are reviewed. Cultural and linguistic diversity, poverty, and various contemporary issues will be explored for impact on the school, local, state and national community.

3 credits

EP 920 Research, Design and Evaluation

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program

This course introduces qualitative and quantitative research methods, acceptable research designs, clinical applications and interpretation of findings and critical evaluation. Course introduces qualitative and quantitative research methods. Course coverage includes acceptable methods of research design, clinical applications, interpretation of findings, critical evaluation and statistical data analysis. Students will be encouraged to pursue areas of particular interest.

3 credits

EP 921 Human Development: Lifespan

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program

This course provides an overview of development from conception until death. A comprehensive view of life span development with special attention to the physical, cognitive, and social-emotional changes that occur during infancy, toddlerhood, childhood, adolescence, and adulthood. Theories of development will be reviewed from an interdisciplinary, culturally informed perspective and related to implications for learning.

3 credits

EP 922 Child & Adolescent Psychotherapy

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

This course provides students with counseling theory and practice strategies related to contemporary, empirically validated approaches to improve interpersonal, emotional and social functioning in young children to adolescents. Students review and develop skills necessary to conduct professional, developmentally informed and theoretically driven individual mental health intervention in school and community settings.

3 credits

EP 923 Learning: Principles, Theories and Applications

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

This course is focused on current theories of learning and how to link theory and intervention. Students will review standardized, curriculum-based and informal measures aligning intervention with instructional objectives that match a learner's strengths and needs.

3 credits

EP 924 Principles of Neuropsychology

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

The principles of human Neuropsychology and Survey of functional neuroanatomy and neurophysiology. Emphasis will be placed on Sensory-Motor Functions, Attention Executive Functions, Language, Visual-Spatial Processing and Speed and Efficiency of Cognitive Processing with specific emphasis on the neuropsychological basis of memory and learning as well as changes in physiological structures and psychological processes.

3 credits

EP 925 Advanced Counseling Theory, Practice and Psychotherapy

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

This course is designed to provide students with continued experience in counseling and psychotherapy. Counseling in a multicultural society will be a focus as well as professional communication skills with a variety of populations. Such populations might include clients, families, teachers, physicians, and other professionals.

3 credits

EP 926 Family Systems: Theory and Practice

Pre-req: Full Time Status in the School Psychology Program, EP 902 or permission of School Psychology Program Director.

This introductory graduate level course in family counseling and collaboration examines theories of the family as a system within an ecological context, an understanding of the theories and research on families and with the theories and practices of systematic family counseling. The course covers parent counseling and education, the school and family as interactive systems and school-parent collaboration. In addition, families in early intervention, and other family-community interventions are covered. Some role plays, assignments, and readings will be tailored to the needs of student working in school systems, and to those in mental health settings.

3 credits

EP 927 Exceptionalities: Developmental Processes, Identification and Intervention

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

A broad survey of the field of exceptionality and special education with emphasis on the study physical, cognitive, perceptual and psychological aspects of the atypical developmental patterns of children and adolescents. Included are discussions of current issues and controversies in the field, characteristics, classification, diagnosis, and educational interventions for school-aged children with high-incidence and low-incidence disabilities who have exceptional educational needs. Includes attention to special education legislation and current service delivery programs.

3 credits

EP 928 Applied Neuropsychology in the Schools

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director. This course will provide students with analytical tools to assist in diagnostic formulation as students become familiar with neurological conditions of childhood and adolescence. Approaches to common neuropsychological assessment measures used to assess those will be reviewed with treatment planning, and the development of interventions to address areas of difficulty in children and adolescents suspected of acquired neuropsychological involvement with learning, behavioral problems. Relevant Pediatric Neuropsychiatric Disorders will also be covered.

3 credits

EP 929 Fundamental of Consulting: Theory and Practice

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

The purpose of this course is to promote general knowledge of behavioral, mental health and organizational theories of consultation. Each participant will develop a conceptual understanding of effective consultation and its relevance to intervention using a pragmatic approach to client centered consultation and professional reflection for increased efficacy in assessment, intervention, and evaluation of special needs students/clients. The course utilizes models from school consultation, group process, systems theory, family therapy and organizational conceptual framework for discussion. School Psychology students are expected to carry out the consultation with a classroom teacher.

3 credits

EP 930 Groups Processes: Theory and Practice

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

This course provides a study of the group processes and dynamics. Various approaches, theories, and techniques of group psychotherapy are examined. The group process of the class will provide experience of group membership. Readings and lectures build on a cognitive base for experiential learning.

3 credits

EP 931 Psychology of Choice: Career and

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

Various theoretical and empirical issues related to personal satisfaction in the choice of work and career are examined. The theoretical and empirical issues related to personal satisfaction in the choice of work and career are examined. Specific areas to be analyzed include developmental models of behavior; goal setting and the planning process; the assessment of values, interests, abilities, and personality characteristics; decision making.

3 credits

EP 932 Seminar: Neuropsychology in Schools

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

The purpose of this course is to promote general knowledge of behavioral, mental health and organizational theories of consultation. Each participant will develop a conceptual understanding of effective consultation and its relevance to intervention using a pragmatic approach to client centered consultation and professional reflection for increased efficacy in assessment, intervention, and evaluation of special needs students/clients. The course utilizes models from school consultation, group process, systems theory, family therapy and organizational conceptual framework for discussion. School Psychology students are expected to carry out the consultation with a classroom teacher.

3 credits

EP 990 Seminar & Practicum in School Psychology I

Pre-req: Full Time Status in the School Psychology Program, cleared for Practicum or permission of School Psychology Program Director.

The Professional Seminar is taught concurrently with a year long practicum in school psychology with students under the supervision of both a credentialed school psychologist in the schools and a university supervisor. The Seminar will provide a forum, an important part of school psychology training, in which students will link theories and course work to practice and will examine professional, legal & ethical issues and service delivery models in school psychology. The seminar environment will afford students the opportunity to discuss complex cases that they have encountered including cross-cultural considerations, diagnostic issues, recommendations and interventions.

3 credits

EP 991 Seminar & Practicum in School Psychology II

Pre-req: Full Time Status in the School Psychology Program or permission of School Psychology Program Director.

The Professional Seminar is taught concurrently with a year long practicum in school psychology with students under the supervision of both a credentialed school psychologist in the schools and a university supervisor. The Seminar will provide a forum, an important part of school psychology training, in which students will link theories and course work to practice and will examine professional, legal & ethical issues and service delivery models in school psychology. The seminar environment will afford students the opportunity to discuss complex cases that they have encountered including cross-cultural considerations, diagnostic issues, recommendations and interventions.

3 credits

EP 992 Seminar & Internship in School Psychology I

Pre-req: Full Time Status in the School Psychology Program, cleared for Internship or permission of School Psychology Program Director.

School Psychology Internship Seminar I is the first of the two-part culminating component of school psychology education conducted under the joint supervision of a credentialed school psychologist and university faculty. Professional experiences students are expected to discuss include counseling with individuals and groups, psychological assessment, report writing and participation in team meetings, consultation with teachers, parents and other school staff, ethical, and legal issues in school psychology and service to diverse ethnic, cultural, disability, gender and sexual orientation groups. Additional relevant experiences include participation in the Pre-referral activities and review of building and/or district Crisis Response plans. It is expected that at the completion of the internship year (minimum 1200 hours), students will be prepared to function independently as school psychologists.

EP 993 Seminar & Internship in School Psychology II

Pre-req: Full Time Status in the School Psychology Program, cleared for Internship or permission of School Psychology Program Director.

School Psychology Internship Seminar II is the second of the two-part culminating component of school psychology education conducted under the joint supervision of a credentialed school psychologist and university faculty. Professional experiences students are expected to discuss include counseling in individuals and groups, psychological assessment, report writing and participation in team meetings, consultation with teachers, parents and other school staff, ethical, and legal issues in school psychology and service to diverse ethnic, cultural, disability, gender and sexual orientation groups. Additional relevant experiences include participation in the Pre-referral activities and review of building and/or district Crisis Response plans. It is expected that at the completion of the internship year (minimum 1200 hours), students will be prepared to function independently as school psychologists.

CERTIFICATE OF ADVANCED GRADUATE STUDIES (CAGS) IN SECONDARY EDUCATION

Program Coordinator: Dr. Sara Young Phone:

508-929-8246

Email: syoung3@worchester.edu

The CAGS program in Secondary Education is designed for Middle and High School teachers and curriculum leadership who already have a Master's degree in Education or a Master's in a field related to their teaching license. This program provides students with the opportunity to focus on advanced graduate study in secondary education with a disciplinary focus. Although this program is not a pre-approved road to professional licensure, students may – with the approval of DESE – utilize this program for their own personal and professional career goals.

Admission

Candidates for the CAGS program in Secondary Education will be required to meet the competencies established by the graduate program for all candidates seeking a Certificate of Advanced Graduate Study through Worcester State University. In addition, students will be required to demonstrate evidence of an earned Master of Education or Master's in Related Field with a minimum GPA of 3.0. Program of Study

This program consists of a minimum of ten (10) courses for a minimum of thirty (30) graduate credits, which are selected with the approval of the program coordinator. There is one course in the philosophical, sociological, or cultural foundations of education; two or three courses in secondary education areas such as curriculum, assessment, leadership and/or instruction; four or five courses in a disciplinary focus such as Math, History, Biology, English, Spanish, Reading, or Language and Culture; one course in research methods; and a three to six credit research project. At the conclusion of the program, students will select a portfolio or comprehensive exam option with the approval of the program coordinator.

Requirements of the Program

Minimum of 30 credits plus Comprehensive Exam or Professional Portfolio (2 credits)

1. Education Foundations (3 cr.)
2. Secondary Education (6-9 cr.)
3. Disciplinary Focus (12-15 cr.)
4. Research Design and Methodology (3 cr.)
5. Research Project (3-6 cr.)

Comprehensive Exam in Secondary Education or Professional Portfolio (2 cr.)

MASTER OF ARTS IN ENGLISH

Program Coordinator: Dr. Ruth Haber Phone: 508-929-8706

Email: rhaber@worchester.edu

In addition to the standard admission requirements set by Worcester State at: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx> applicants to the Master of Arts in English must have either earned an undergraduate degree in English or completed at least 18 semester credit hours of English courses, not counting first-year English composition classes or English for English Language Learners, at an accredited institution of higher education. Applicants without undergraduate training in the English discipline are strongly advised to take survey courses in American and English literature and a course in undergraduate literary theory as part of the required 18 undergraduate credits.

The program has the following convenient features:

- A part-time evening schedule
- A rolling admission that allows students to start their studies in any semester
- Possibility of transferring in up to 12 credits of graduate work after coordinator review
- Note: transfer credits may include coursework taken at Worcester State University prior to matriculation

Requirements of the Program

I. English Foundation courses

EN 901	Methods of Graduate Research:	3 credits
EN 902	Approaches to the Literary Experience:	3 credits

II. English Elective courses

Students will select, with the approval of a graduate advisor, 21 credits from the graduate English courses listed in the catalog.

III. Additional electives

Students will select, with the approval of a graduate advisor, 6 graduate credits in English or another area.

IV. Thesis/Exam Option

Upon completion of their course work, candidates must successfully fulfill a last requirement in the form of either two substantial area examinations or a thesis. While the general focus of the examinations and the thesis must deal with literature and/or rhetoric, the individual student and his or her advisor together will decide on the specific subject(s) to be explored. *Thesis option EN 999 is a 3-credit option in place of an elective course.*

Total credits: 33

Graduate English Courses

EN 900 History and Structure of the English Language

The phonology, syntax, and lexicon of English from its proto-Indo-European origins to its contemporary dialects.

3 credits

EN 901 Methods of Graduate Research

An introduction to graduate-level research and writing. 3 credits

EN 902 Approaches to the Literary Experience

An introduction to practical criticism which applies a broad spectrum of critical approaches to a selected group of literary examples.

3 credits

EN 903 Theory and Teaching of Writing

Current writing theory and pedagogy with emphasis on the college, high school, or middle school classroom.

3 credits

EN 905 Modern Rhetorical Theory

Examines history of and recent developments in modern rhetorical theory and composition studies. 3 credits

EN 906 Donne, Herbert, and Seventeenth-Century British Poetry

Analysis of the work and influence of John Donne, Ben Jonson, George Herbert and other metaphysical and religious poets.

3 credits

EN 907 Sixteenth- and Seventeenth-Century Pastoral Literature

This course explores pastoral's emergence as a major genre of sixteenth- and seventeenth-century literature.

3 credits

EN 908 Milton

Analysis of Milton's prose and poetry, emphasizing "*L'Allegro*," "*Il Penseroso*," *Comus*, "*Lycidas*," *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and *Areopagitica*.

3 credits

EN 910 Literature of the English Renaissance

Advanced examination of Tudor and Jacobean literature, emphasizing More, Wyatt, Surrey, Sidney, Spenser, Marlowe, Nashe, Shakespeare, Donne, and Jonson.

3 credits

EN 911 Young Adult Literature

Examination of a range of texts, classical and modern, that address both middle-school and high-school (and older) readers.

3 credits

EN 912 Shakespeare

This course will examine various aspects of Shakespeare's plays and poems. 3 credits

EN 925 Eighteenth-Century Novel

Explores the origins of the novel genre. 3 credits

EN 931 Nineteenth-Century Novel

Explores British prose fiction of the nineteenth century. 3 credits

EN 933 Romantic and Victorian Gothic

Romantic and Victorian Gothic is a subversive arena where major authors explore the issues bedeviling their eras.
3 credits

EN 934 The Romantics and the Victorians: 1798-1901

An historical and critical survey of the prose and poetry of the nineteenth century including Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Arnold and Browning.
3 credits

EN 935 Modern Drama

A survey of British, American, Irish, and continental drama from Ibsen through O'Neill. 3 credits

EN 941 Modern Poetry

A study of the major figures who shaped American and British poetry between 1910 and 1950. 3 credits

EN 942 Three Modern Poets

Illustrates how modern poetry differs from that of earlier periods through study of W.B. Yeats, Wallace Stevens, and T.S. Eliot.
3 credits

EN 945 Contemporary Poetry

Concentrates on poets whose major work was written after World War II. 3 credits

EN 950 The Romantic Flowering in American Literature

The development of Romantic idealism in the origins of American fiction and poetry. 3 credits

EN 952 Realism and Naturalism

Realism as practiced by Twain and clarified by Howells, following the transition of realism to naturalism under Norris and Dreiser.
3 credits

EN 955 American Novel I

The development of the American novel from Charles Brockden Brown through Melville and Hawthorne.
3 credits

EN 956 Classical Mythology

Study of the myths of ancient Greece and Rome through examination of major primary texts and secondary interpretative texts.
3 credits

EN 957 American Novel II

The development of the American novel from naturalism and realism to the latest fiction of the twentieth century.

3 credits

EN 958 Women in American Literature

An advanced study of works by and about women in American literature, including Rowson, Foster, and Brown.

3 credits

EN 961 Film and Literature: Page and Screen

This class explores film's artistic and cultural descent from literature. 3 credits

EN 995 Seminar

An exploration of the works of one or two major authors in depth. 3 credits

EN 997 Graduate Independent Study

Guided exploration of a topic of interest to the student and a member of the English faculty. 3 credits

EN 998 Special Topics

An exploration and consideration of a theme or topic of mutual interest to instructor and students. 3 credits

EN 999 Thesis Research & Writing

Guided work relating to the student's thesis. 3 credits

MASTER OF ARTS IN HISTORY

Program Coordinator: Dr. Charlotte Haller

Phone: 508-929-8046

Email: challer1@worchester.edu

Admission Requirements:

General admission requirements for graduate study located at <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx> together with 18 credits in undergraduate history including the following courses or their equivalents:

HI 103 & HI 104 World Civilization I and II

HI 111 & HI 112 US History I and II

There are two different tracks for Master of Arts in History: the portfolio track and the thesis track.

Requirements of TRACK 1 (Portfolio):

I. Foundation courses

HI 910 The Study and Writing of History: 3 credits
History Research Seminar (3 credits)

II. Distribution History courses (18 credits)

US History Electives: 6 credits
European History Electives: 6 credits
Non-US/Non-European History Electives: 6 credits

III. Minor Concentration in History or a related field (9 credits; developed in consultation with advisor).

The capstone of the program is the presentation of a portfolio. Students will present the portfolio to the graduate coordinator at a meeting after all course work has been completed. The portfolio should include five papers, plus an introductory narrative that reflects upon the student's program as a whole, provides the necessary context for understanding the five papers, and explains why those particular papers were chosen. One of the papers must be a research paper incorporating primary sources. In addition, the papers should represent work in U.S. History, European History, Non-U.S./Non-European History, and the Minor Concentration. The portfolio will be assessed by departmental committee of at least 3 members.

Total credits: 33

Requirements of TRACK 2 (Thesis):

I. Foundation course

HI 910 The Study and Writing of History: 3 credits

II. Major Concentration in U.S. History or World History (21 Credits)

15 credits of elective History courses (U.S. or World) History
995 Thesis (6 credits)

III. Minor Concentration in History or a related field (9 credits; developed in consultation with advisor).

Students will form a thesis committee of at least two faculty members. One will be the primary advisor (and the instructor of record for the thesis courses) who will work closely with the student in their research and writing. The second will read the final version of the thesis. Upon completion of the thesis, the student will schedule an oral defense with the thesis committee.

Total Credits: 33

Graduate History Courses

HI 910 The Study and Writing of History

Historical methodology, modern historiographical views, and the emergence of the New History; i.e., psycho-history, family history, and quantitative history.

3 credits

HI 912 Industrial Revolution: Past, Present, Future

Prerequisite: Survey course in modern history

A comparison of the European and American Industrial Revolutions and their consequences from the eighteenth through the twentieth centuries. Field trips are planned to mill towns and industrial cities.

3 credits

HI 914 The Gilded Age: 1865-1900

A depiction of the period when America went through a rapid socio-economic transformation in the areas of industrialization, urbanization, and immigration.

3 credits

HI 915 Populism, Progressivism and Socialism in the US: 1877-1920

Analysis of three reform movements that were an ideological response to the Gilded Age's excesses and an attempt to humanize America's economic transformation.

3 credits

HI 918 The US and the Middle East

Discusses growth of US economic, cultural, political, and strategic interests in Middle East; emphasis on post-World War II period.

3 credits

HI 920 Japan in the Twentieth Century

An evaluation of the role of Japan as an emerging world power and economic giant during the present century.

3 credits

HI 922 US & Soviet Relations

A study of the central issues in American-Soviet relations since 1917. Special attention will be devoted to the question of recognition, the origins of the Cold War, the Cuban Missile Crisis, and recent developments.

3 credits

HI 924 Selected Topics in US-East Asian Relations

An examination of major problems affecting American foreign policy in East Asia since World War II; i.e., the origins of the Cold War in Asia, America's entry into the Korean War, the Offshore Islands issue, America's involvement in the Vietnam conflict, and US-Chinese relations.

3 credits

HI 936 History of the American South

A survey from the colonial era to the present, with a particular focus upon slavery and race relations. 3 credits

HI 937 American Revolutionary Period

The political, military, economic, and social history of America from 1763 to 1787. 3 credits

HI 938 The American Civil War

The political, military, economic, and social history of America from 1850 to 1877. 3 credits

HI 939 American History at the Movies

A variety of movies are used as launching pads to explore American history and the relationship of film to history. 3 credits

HI 940 Teaching History with Film

A study of history through film and media. 3 credits

HI 941 Medieval History

Hundred Years War and the War of the Roses (1327-1485). 3 credits

HI 942 Tudor-Stuart England

The political, cultural and social development of England, 1485-1688. 3 credits

HI 943 World War I

The period 1870-1918, focusing upon the origins of the First World War. 3 credits

HI 944 World War II

A survey of the mass industrial global conflict between 1939-1945. 3 credits

HI 945 The Rise of Islam

Course focuses on the rise of Islam, the Arab Empire, and the impact of the Arab/Islamic Civilization on Europe. 3 credits

HI 952 Russia in the Twentieth Century

An evaluation of major political economic, and diplomatic developments in the Soviet Union, stressing Leninism, Stalinism, and Khrushchevism. 3 credits

HI 953 The Mind of Modern Russia

An analysis of the central attitudes and ideas that have shaped the Russian mind from the Muscovite era to the present. 3 credits

HI 970 China in the Twentieth Century

A consideration of the major political, diplomatic, and intellectual developments in China since 1949. 3 credits

HI 990 Special Topics in History

An investigation of an historical issue, event or personality of mutual interest to the instructor and students. 3 credits

HI 995 Thesis Option

Research and writing of thesis. 3 credits

MASTER OF ARTS IN SPANISH

Program Coordinator: Dr. Juan Orbe Phone:
508-929-8704

Email: jorbe@worchester.edu

Admission Requirements:

1. **General admission requirements for the graduate school. These are located at:**
<http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>
2. **B.A. in Spanish or related field and/or interview with faculty member.**

Curriculum:

I. Spanish Foundation Courses

SP 901 Advanced Study/Research Methods	3 credits
SP 994 Thesis Seminar or Comprehensive Exam (*in Spanish)	3 credits

II. Spanish Concentration Courses

Culture (9 Credits) One course must be in Peninsular Culture, one in Latin American Culture, one in Latino Culture.

Literature (15 Credits) Two courses must be in Peninsular Literature, two in Latin American Literature, and one in Latino Literature.

III. Electives (6 credits)

Students may take graduate elective courses in Advanced Language, Civilization, Spanish for Professionals, Translation, or an Independent Study

Total 36 credits

Graduate Spanish Courses

SP 901 Advanced Study: Special Topics

Special topic in language, literature, civilization or field work of mutual interest to student and instructor.

3 credits

SP 931 Spanish Civilization

A historical survey of Spanish social, cultural and political life. 3 credits

SP 933 The Hispanic Presence in the United States

Sociocultural study of the Hispanics in the United States, with a focus on major contemporary issues. 3 credits

SP 935 Sociocultural Study of Latin America

This course will focus on the encounter of cultures in Latin America, Amerindian, African, and Spanish from Pre-Columbian times to the present.

3 credits

SP 937 Projects and Issues in Spanish for the Professions

A close study of selected projects and bicultural issues for Spanish Professionals. 3 credits

SP 942 Introduction to Latin American Literature I

Study of selected texts produced in Latin American from the pre-Columbian era until the first wars of independence.

3 credits

SP 945 The Poetry and Theatre of Spain's Golden Age

A comprehensive study of the poetry and theatre which flourished in Spain during the years 1500- 1650. 3 credits

SP 949 Spanish-American Literature

Representative works by Spanish American authors from the colonial period to the present. 3 credits

SP 955 Effective Teaching of a Foreign Language

Prerequisite: Stage two of Educational program and/or previous teaching experience

Examines and evaluates effective teaching techniques and strategies in the Foreign language classroom at the Middle and Secondary School levels.

3 credits

SP 956 Theory and Practice of Translation

This course will focus on practical exercises as well as the sociolinguistics of translation. 3 credits

SP 957 Topics in the History of the Spanish Language

Study of the more complex structures of Spanish grammar, with special attention to problems of language presentation and reception.

3 credits

SP 994: Thesis Seminar or Comprehensive Exam (*In Spanish)

Students will work with faculty advisor(s) to design, implement, and evaluate a thesis that investigates a significant issue, or to prepare and take a Comprehensive Exam that evaluates the overall program coursework plus additional materials, if so desired, in order to complete the requirements for graduate work.

3 credits

SP 997 Independent Study: Spanish

Study of a special topic of interest to the student. Both content and eligibility are subject to departmental guidelines and approval.

3 credits

MASTER OF EDUCATION—EARLY CHILDHOOD EDUCATION

Early Childhood Graduate Coordinator: Dr. Carol Donnelly Phone: 508 929-8667

Email: cdonnelly@worchester.edu

There are two tracks within the program.

1. The **Professional License Track** is a Master's Degree program designed for those who possess the Initial License or its equivalent. This track fulfills the full licensure requirements set by the Massachusetts Department of Education for a teacher of Early Childhood Education (P-2) and leads toward the Professional Teaching License. (34 credits total)

Prerequisites: Initial License or its equivalent in Early Childhood Education

The program consists of the following courses:

I. Core requirements: (Required of all students – 10 credits)

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits
ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation (to be taken last)	1 credit

II. Core Content Courses: (Required of all students, except for those who can demonstrate recent mastery of the content area. With the approval of the program coordinator, those students must document mastery and may elect higher level or alternate courses. – 12 credits)

ED 920	Cognitive/Affective Learning for Typical and Atypical Children	3 credits
CD 910	Speech/Language Development, Differences, Diversity	3 credits
EE 911	Early Literacy for Young Children	3 credits
EE 912	Young Children and Inclusive Early Childhood Practices	3 credits

III. Content across the curriculum courses: (Students must elect a minimum of three of these courses, which have been developed and/or taught in conjunction with liberal arts and sciences faculty members. Students may choose to elect graduate level courses in the content areas which they teach: English, Mathematics, Science, History, Fine Art, or Reading – 9 credits)

EE 900	Literature for Young Children	3 credits
EE 903	Language Arts in Early Childhood: Content, Curriculum, Evaluation, Methods and Materials	3 credits
EE 904	Exploring Science in Early Childhood Education	3 credits
EE 913	Social Studies in Early Childhood: Content, Curriculum, Evaluation, Methods and Materials	3 credits
EE 916	Mathematics in early Childhood: Content, Curriculum, Evaluation, Methods and Materials	3 credits
EE 917	The Fine Arts in early Childhood: Content, Curriculum, Evaluation, Methods and Materials	3 credits

IV. Electives 3 credits

Students may select additional content across the curriculum courses or may select two courses from electives offered by the department. Students may elect an area of focus by choosing electives and completing their research projects in a specific area.

Total 34 credits.

- 2 The **Professional Development (Non-Licensure) Track** is designed for students who wish to enhance competence within an existing career in preschool, early intervention, nursery school, day care, kindergarten, or first through second grade.

Prerequisites: General Admission Requirements located

at: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

The program consists of the following courses:

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits
ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation	1 credit
ED 920	Cognitive and Affective Learning for Typical and Atypical Children	3 credits
EE 912	Young Children and Inclusive Early Education Practices	3 credits
CD 910	Speech and Language Development	3 credits
EE 911	Early Literacy for Young Children	3 credits

Electives 12 credits

Total 34 credits

Note: Teachers in the field of Early Childhood Education are certified in the Commonwealth of Massachusetts by two licensing agencies. Public school teachers teaching preschool through grade two are licensed by the Massachusetts Department of Elementary and Secondary Education. Teachers who teach at the preschool level in day care and nursery school programs are certified by the Massachusetts Department of Early Education and Care. It is possible for students to complete many or all of the requirements set by the Massachusetts Department of Early Education and Care for certification as Preschool Teacher, Preschool Lead Teacher or Director I, Director II.

MASTER OF EDUCATION—ELEMENTARY EDUCATION

Elementary Education Graduate Coordinator: Dr. Christina Bebas

Phone: 508-929-8753

Email: cbebas@worchester.edu

The degree of Master of Education, Concentration in Elementary Education, is designed for those professionals focusing on children from grade 1 through 6. There are two tracks within the program.

1. The **Professional Licensure Track** is designed for students who possess an Initial License or its equivalent in Elementary Education.

Prerequisites: Initial License or its equivalent in Elementary Education (1-6)

I. Core requirements: (Required of all students – 10 credits)

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits

The following two courses are to be taken as the last two courses of the program:

ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation (to be taken last)	1 credit

II. Core Content Courses: (15 credits)

EL 906	Contemporary Curriculum and Instruction for Elementary School	3 credits
EL 907	Assessing Teaching and Learning in Elementary Education	3 credits
ED 927	Inclusive Settings: Learning Strategies and Management techniques	3 credits

Choose two classes total from the following four: (6 credits)

ED 917	Diagnosis, Analysis, and Remediation of Reading Difficulties in Middle and Upper Grades	3 credits
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OR

EE 915	Detection and Remediation of Early Reading Difficulties	3 credits
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AND

ED 911	Advanced Foundations of Reading (recommended for Math Concentrations)	3 credits
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OR

ED 914	Teaching Reading in the Content Areas	3 credits
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III. Content Strands: (9 credits)

Three (3) electives from one of the following content areas with the consent of the Program Coordinator. Content electives may be taken in various arts/sciences departments or through the education department.

- I. Literacy (Reading/Language Arts/ Literature)
- II. Science/Math/Technology
- III. Social Studies/Fine Arts/Health
- IV. Mathematics Education

Total 34 credits.

2. The **Professional Development (Non-Licensure)** Track is designed for individuals who already possess Professional Licensure or its equivalent, have more than three years experience and/ or those who do not wish Licensure in the State of Massachusetts. Individuals must possess a strong academic background preferably with evidence of post baccalaureate coursework.

Prerequisite: General Admission Requirements The

program consists of the following courses

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits
EL 906	Contemporary Curriculum and Instruction for Elementary Education	3 credits
EL 907	Assessing Teaching and Learning in Elementary Education	3 credits
ED 927	Inclusive Settings: Learning Strategies and Management Techniques	3 credits
ED 917	Diagnosis, Analysis, and Remediation of Reading Difficulties in Middle and Upper Grades	3 credits

OR

EE 915	Detection and Remediation of Early Reading Difficulties	3 credits
Electives 12 credits		

The following two courses are to be taken as the last two courses of the program:

ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation	1 credit

Students meet with the coordinator of the graduate elementary education program and set goals for their elective program. In conjunction with the coordinator each student then selects appropriate electives designed to meet their individual and professional goals. The core requirements remain the same for this program.

There are a total of twelve. (12) elective credits.

Total 34 credits

To see admission requirements for graduate school at Worcester State please go to:
<http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

MASTER OF EDUCATION—MIDDLE SCHOOL EDUCATION

Graduate Program Coordinator: Dr. Sara Young

Phone: 508-929-8246

Email: syoung3@worchester.edu

The Education Department at WSU is committed to creating a teaching/learning-based environment that will provide caring, competent, creative teachers for the Commonwealth and beyond. We have designed our programs to provide theoretical and practical knowledge of adolescents' developmental needs, abilities, and interests. We believe that practitioners who are schooled in reflective practices and contemporary, research-based classroom techniques, strategies, and resources become skilled educators. We further recognize that lifelong learning is a requirement of being an effective teacher/scholar and that professional development is integral to teacher growth.

1. Professional Licensure Track I:

The Master of Education in Middle School Education for Professional Licensure (content areas in Biology, English, History, Spanish) has been designed to reflect the most current Massachusetts Department of Elementary and Secondary Education (DESE) "Regulations for Educational Licensure," particularly the aspects dealing with the provision for more content knowledge. The University's Department of Education, in collaboration with the relevant departments in the Liberal Arts & Sciences that provide the content area courses, prepares students for Professional licensure at the Middle (grades 5-8) and Secondary (grades 8-12) school levels in Biology*, English*, History*, Spanish*.

Admissions Requirements:

In addition to the general admission requirements for graduate study at WSU, candidates must possess the following attributes:

- 1) Possession of an Initial license in middle school education (grades 5-8) from the Commonwealth of Massachusetts in the relevant field of licensure;
- 2) Evidence of an undergraduate or graduate course in Adolescent/Developmental Psychology with a minimum grade of B; or CLEP exam in Human Growth & Development (score of 50+).

Program of Study:

This program consists of thirteen (13) courses for a total of thirty-seven (37) credits. Six of the courses (18 credits) are in education, while six (18 credits) are in the specified content field of licensure. The remaining one credit is awarded for completing a program portfolio encompassing both content and pedagogy, and demonstrating how students have successfully attained the state standards for Professional licensure.

CORE requirements:

ED 981	Advanced Foundations of Education (3 cr)
ED 958	Curriculum Development: Middle Schools (3 cr)
ED 959	Assessment & Classroom Management (3 cr) ED
963	Understanding/Teaching of Culture (3 cr)

Content area requirements:

18 graduate credits (6 courses) - from the following areas: **Biology; English; History; Spanish***

Advanced Education and Thesis Requirements:

ED 982	Research in Education (3 cr)
ED 994	Thesis Seminar (3 cr)
ES 926	Portfolio Evaluation (1 cr)

Students have the option of choosing a thesis research topic in education or in their content area.

*Educator Preparation Program approved by DESE

2 Non- Licensure Track II:

The Master of Education in Middle Education for Non-Licensure has been designed to provide students with pedagogical study combined with a practical knowledge base to deal with school issues in today's society. Although this track is not an approved road to professional licensure, students may - with approval from DESE – utilize this program for their personal and professional career goals.

Admissions Requirements:

In addition to the general admission requirements for graduate study at WSU, candidates must possess the following attributes:

- 1) Possession of an Initial license in middle school education (grades 5-8) from the Commonwealth of Massachusetts in the relevant field of licensure;
- 2) Evidence of an undergraduate or graduate course in Adolescent/Developmental Psychology with a minimum grade of B; or CLEP exam in Human Growth & Development (score of 50+).

Program of Study:

This program consists of thirteen (13) courses for a total of thirty-seven (37) credits. Six of the courses (18 credits) are in education, while six (18 credits) are in the specified content field of licensure. The remaining one credit is awarded for completing a program portfolio encompassing both content and pedagogy, and demonstrating how students have successfully attained the state standards for Professional licensure.

CORE requirements:

ED 981	Advanced Foundations of Education (3 cr)
ED 958	Curriculum Development: Middle Schools (3 cr)
ED 959	Assessment & Classroom Management (3 cr) ED
963	Understanding/Teaching of Culture (3 cr)

Content area requirements:

18 graduate credits (6 courses in content/ancillary cognate area chosen with approval from the program coordinator)

Advanced Education and Thesis Requirements:

ED 982	Research in Education (3 cr)
ED 994	Thesis Seminar (3 cr)
ES 926	Portfolio Evaluation (1 cr)

Students have the option of choosing a thesis research topic in education or in their content area.

*Educator Preparation Program approved by DESE

MASTER OF EDUCATION—SECONDARY EDUCATION

Graduate Program Coordinator: Dr. Sara Young

Phone: 508-929-8246

Email: syoung3@worchester.edu

The Education Department at WSU is committed to creating a teaching/learning-based environment that will provide caring, competent, creative teachers for the Commonwealth and beyond. We have designed our programs to provide theoretical and practical knowledge of adolescents' developmental needs, abilities, and interests. We believe that practitioners who are schooled in reflective practices and contemporary, research-based classroom techniques, strategies, and resources become skilled educators. We further recognize that lifelong learning is a requirement of being an effective teacher/scholar and that professional development is integral to teacher growth.

1. Professional Licensure Track I:

The Master of Education in Secondary Education for Professional Licensure (content areas in Biology, English, History, Spanish) has been designed to reflect the most current Massachusetts Department of Elementary and Secondary Education (DESE) "Regulations for Educational Licensure," particularly the aspects dealing with the provision for more content knowledge. The University's Department of Education, in collaboration with the relevant departments in the Liberal Arts & Sciences that provide the content area courses, prepares students for Professional licensure at the Middle (grades 5-8) and Secondary (grades 8-12) school levels in Biology*, English*, History*, Spanish*.

Admissions Requirements:

In addition to the general admission requirements for graduate study at WSU, candidates must possess the following attributes:

- 1) Possession of an Initial license in secondary school license (grades 8-12) from the Commonwealth of Massachusetts in the relevant field of licensure;
- 2) Evidence of an undergraduate or graduate course in Adolescent/Developmental Psychology with a minimum grade of B; or CLEP exam in Human Growth & Development (score of 50+).

Program of Study:

This program consists of thirteen (13) courses for a total of thirty-seven (37) credits. Six of the courses (18 credits) are in education, while six (18 credits) are in the specified content field of licensure. The remaining one credit is awarded for completing a program portfolio encompassing both content and pedagogy, and demonstrating how students have successfully attained the state standards for Professional licensure.

CORE requirements:

ED 981	Advanced Foundations of Education (3 cr)
ED 974	Curriculum Development: Secondary Schools (3 cr) ED
975	Assessment & Classroom Management (3 cr)
ED 963	Understanding/Teaching of Culture (3 cr)

Content area requirements:

18 graduate credits (6 courses) - from the following areas: **Biology; English; History; Spanish***

Advanced Education and Thesis Requirements:

ED 982	Research in Education (3 cr)
ED 994	Thesis Seminar (3 cr)
ES 926	Portfolio Evaluation (1 cr)

Students have the option of choosing a thesis research topic in education or in their content area.

*Educator Preparation Program approved by DESE

2 Non- Licensure Track II:

The Master of Education in Secondary Education for Non-Licensure has been designed to provide students with pedagogical study combined with a practical knowledge base to deal with school issues in today's society. Although this track is not an approved road to professional licensure, students may - with approval from DESE – utilize this program for their personal and professional career goals.

Admissions Requirements:

In addition to the general admission requirements for graduate study at WSU, candidates must possess the following attributes:

- 1) Possession of an Initial license in secondary school license (grades 8-12) from the Commonwealth of Massachusetts in the relevant field of licensure;
- 2) Evidence of an undergraduate or graduate course in Adolescent/Developmental Psychology with a minimum grade of B; or CLEP exam in Human Growth & Development (score of 50+).

Program of Study:

This program consists of thirteen (13) courses for a total of thirty-seven (37) credits. Six of the courses (18 credits) are in education, while six (18 credits) are in the specified content field of licensure. The remaining one credit is awarded for completing a program portfolio encompassing both content and pedagogy, and demonstrating how students have successfully attained the state standards for Professional licensure.

CORE requirements:

ED 981	Advanced Foundations of Education (3 cr)
ED 974	Curriculum Development: Secondary Schools (3 cr)
ED 975	Assessment & Classroom Management (3 cr)
ED 963	Understanding/Teaching of Culture (3 cr)

Content area requirements:

18 graduate credits (6 courses in content/ancillary cognate area chosen with approval from the program coordinator)

Advanced Education and Thesis Requirements:

ED 982	Research in Education (3 cr)
ED 994	Thesis Seminar (3 cr)
ES 926	Portfolio Evaluation (1 cr)

Students have the option of choosing a thesis research topic in education or in their content area.

*Educator Preparation Program approved by DESE

MASTER OF EDUCATION

Program Coordinator: Dr. Sara Young

Phone: 508-929-8246

Email: syoung3@worchester.edu

This flexible program is designed for students with a variety of educational backgrounds who wish to pursue a Master of Education without teacher licensure. The program focuses on curriculum studies and students' professional interests through a variety of electives in content or pedagogy.

Admissions Requirements:

In addition to the general admission requirements for graduate study at WSU, candidates must possess the following:

1. Hold a Bachelors Degree from a regionally accredited Institution or from a recognized foreign institution of higher education;
2. Have an undergraduate GPA of 2.75 or higher.

PROGRAM OF STUDY:

I. Core Requirements:

- ED 981 Advanced Foundations of Education (3 cr)
- ED 982 Research Methods in Education (3 cr)
- ED 994 Thesis Seminar** (3 cr)

II. Elective Requirements:

- 1 Course in Educational Administration/Leadership in Curriculum (3 cr) 1
- Course in Curriculum Development (3 cr)
- 1 Course in Educational Technology (3 cr) 1
- Course in Assessment (3 cr)
- 1 Course in Diversity (3 cr)
- 4 Elective Courses – either Education or content area courses (12 cr) Total: 36 credits

** Students have the option of choosing a thesis research topic in education or in a related area.

MASTER OF EDUCATION: CONCENTRATION IN ENGLISH AS A SECOND LANGUAGE

Graduate Program Coordinator: Dr. Margarita Perez

Phone: 508-929-8609

Email: mperez@worchester.edu

Candidates for this program must hold a bachelor's degree from an accredited institution with a cumulative GPA of 2.75 or higher, and a current teaching license in ESL at the initial or professional level. Candidates who have attained initial licensure in ESL from another program or by another route would be required to take at least two other courses (e.g., SIFE or Global Perspectives, or a graduate course approved by the Graduate Coordinator e.g., History of the English Language or a reading course).

Admission Requirements for the Master of Education: Concentration in ESL

The following is to be submitted to the Graduate School:

- Completed graduate application, including fee and essay
- Official transcripts (Transcripts from outside the United States must be officially translated and evaluated.)
- Two current letters of recommendation
- Results of a language proficiency assessment, if applicable
- Graduate Record Exam (GRE) or Millers Analogies Test (MAT) scores (waived with evidence of an existing advanced degree.)
- Copy of initial or professional license in English as a Second Language

In addition, candidates are also required to demonstrate evidence of:

- A course in human, child, or adolescent development at the undergraduate level.
- Documentation of fluency at an intermediate level in a language other than English-- from a college or university or foreign secondary school; through the successful completion of foreign language courses deemed appropriate by the foreign language program in the Languages and Literature Department; or through the proficiency level determined by the University's language proficiency assessment.

Required Courses (10 credits):

ED 981	Advanced Foundations of Education (3 cr.)
ED 982	Research Methods (3 cr.)
ES 934	ESL Seminar: Research in Language & Education. ELLs (3 cr.) ES
935	ESL Portfolio Evaluation (1 cr.)

ESL Concentration (27 credits):

(To be chosen in consultation with Program Coordinator.) CD

905	Sound System of English (3)
CD 906	Structure of English (3)
CD 910	Normal Development of Speech and Language (3)
ED 978	Contemporary Issues in the Teaching of Bilingual and ELLs (3) ES
928	Second Language Acquisition (3)
ES 914	Methods & Materials of Teaching English Language Skills to the ELL (3) ED
986	Literacy Instruction for the English Language Learner (3)
ED 955	Assessing English Language Learners (3)
ES 930	Sheltered Instruction & Assessment in Immersion Classroom (3)

Electives

- ES 929 Assessing and Teaching ELLs with Disabilities (3) ES 931
- Leading an Effective English Learner Program (3) ES 932
- Teaching Adult ESL and SIFE (3)
- ES 933 Global Perspectives in Cultural Diversity (3)

Total Minimum Program Credits: 37

MASTERS OF EDUCATION—MODERATE SPECIAL NEEDS

Program Coordinator: Dr. Sue F. Foo Phone: 508- 929-8071

Email: sfoo@worchester.edu

Candidates for the Master of Education (M.Ed.) with a concentration in Moderate Special Needs (P-8 or 5-12) are required to meet the competencies established by the Office of Graduate Programs for all candidates seeking a Master of Education Degree through Worcester State University.

Candidates must possess an Initial license as a Teacher of Students with Moderate Special Needs from the Commonwealth of Massachusetts. For more information on the Initial Licensure Program for Moderate Special Needs, please go to <http://worchester.edu/Graduate/Shared%20Documents/Cert/CertModerateSpecialNeeds.aspx>

The Worcester State University Special Education Master's Program is a 37-credit program, consisting of twelve (12) three-credit courses and a one-credit portfolio course. The portfolio course requires candidates to document mastery of content and pedagogical standards beyond the initial license.

The courses in the M.Ed. with a concentration in Moderate Special Needs (P-8 or 5-12) program fall into 3 categories. The first set of courses meets the core education requirements common to several of the M. Ed. programs. There are four core courses, that total to ten (10) credits. Completion of these courses assures that students have acquired graduate level knowledge and skills in the foundation of education, and in the interpretation, planning and implementation of educational research.

Core M.ED. Requirements:

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits
ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation	1 credit

Candidates are advised to take ED 981 Advanced Foundations of Education early in the program as it provides the foundation for the graduate program. The research course ED 982 Research in Education informs candidates on interesting areas of research as well as a foundation for ED 993 Seminar: Research in Content Concentration. The seminar course is completed near the end of the program and leads to a completed research paper in the area of Moderate Special Needs. ED 992 Portfolio Evaluation must be taken during the last semester. The course guides candidates in compiling a program portfolio that demonstrates successful attainment of the state standards for initial licensure and the college standards for the Master in Education Degree.

Core Content/Pedagogical Courses

CD 910	Speech & Language Development, Differences, Diversity	3 credits
ED 914	Teaching Reading in the Content Areas	3 credits
ED 929	Mathematics Assessment and Instruction for Diverse Learners	3 credits
ED 913	Differentiated Reading Instruction	3 credits

These three courses are required to complete the M.Ed. with a concentration in Moderate Special Needs to meet the state regulations regarding “content or pedagogical courses beyond those for the initial license based on the academic discipline, developed or taught in collaboration with experts who hold at least a master’s degree in that discipline or hold a full time faculty position in that discipline in the arts or sciences or appropriate professional school other than education.”

Candidates are allowed to take additional courses as electives under the advisement of the program

coordinator.

Elective Courses (Suggested choices but not limited to):

EA 931	Administration of programs for children with Special Needs	3 credits
ED 901	Technology in Education	3 credits
ED 911	Advanced Foundations of Reading	3 credits
ED 918	Reading as Language	3 credits
ED 925	Consultation and Interpersonal skills	3 credits
ED 951	Integrating Language Arts and Social Studies in The Elementary/Middle Schools	3 credits
ED 953	Integrating Science and Mathematics in the Elementary/Middle Schools	3 credits
ED 917	Diagnosis and Remediation of Reading Difficulties In the Middle and Upper Grades or	
EE 915	Detection and Remediation of Early Reading Difficulties	3 credits

Students who have completed Worcester State University Post-Baccalaureate Program for Initial Teacher License in Moderate Special Needs and elect to continue taking courses leading to the Master of Education Degree, may transfer 12 credits from the initial licensure program. The students then complete an additional 25 credits, for a total of 37 to earn a Master of Education Degree with a concentration in Special Education.

To access the online application and admission requirements, please go

to: <http://worcester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx> To

access the online information about the program, please go to:

<http://worcester.edu/Graduate/Shared%20Documents/Masters/MastEducationModerateSpecialNeeds.aspx?PageView=Shared>

MASTERS OF EDUCATION WITH A MODERATE SPECIAL NEEDS (NON-LICENSURE) TRACK

Program Coordinator: Dr. Sue F. Foo Phone: 508- 929-8071

Email: sfoo@worchester.edu

Candidates for the Master of Education (M.Ed.) with a concentration in Moderate Special Needs (Non-Licensure) Track are required to meet the competencies established by the Office of Graduate Programs for all candidates seeking a Master of Education Degree through Worcester State University.

The program allows candidates that possess the following to obtain a Master of Education with a Concentration in Moderate Special Needs without an initial licensure in Moderate Special Needs:

- 1) candidate has licensure in other non-academic areas such as occupational therapy, speech language pathology;
- 2) candidate has licensure in an academic area and is interested in a Master of Education in Moderate Special Needs.
- 3) candidate who is a non-resident of Massachusetts and does not plan to teach in Massachusetts but interested in the Special Education Program.

Candidates who have completed this program and decide to earn an initial licensure in Moderate Special Needs, must fulfill the following criteria:

1. pass all the MTEL requirements;
2. apply to the initial licensure program and be accepted;
3. register for ED 928 Practicum: Moderate Special Needs and ED 926 Curriculum Development and Instructional Techniques (seminar);
4. additional graduate level courses under the initial licensure requirements are required if the Master of Education-Moderate Special Needs (non-licensure) degree is 5 years or older.

OR

Candidates who are working on this program and decide to earn an initial licensure in Moderate Special Needs must fulfill the following criteria:

1. withdraw from the Non-Licensure program through the Department of Graduate and Continuing Education (DGCE);
2. Apply to the Moderate Special Needs Initial Licensure program through DGCE;
3. Pass all the MTEL requirements.

Only the following courses may be transferred to the Moderate Special Needs Initial Licensure program:

- ED 921—Developmental Patterns of Children with Special Needs;
- ED 923—Development and Implementation of an Individualized Education Program; ED 922—Analysis and Interpretation of Behavior and Learning Environments;
- ED 924—Strategies for Assessing and Teaching Students with Moderate Special Needs.

The Worcester State University Master of Education Moderate Special Needs (Non-Licensure) Program is a 37-credit program, consisting of twelve (12) three-credit courses and a one-credit portfolio course. The portfolio course requires candidates to document mastery of content and pedagogical standards beyond the initial license.

The courses in the M.Ed. with a concentration in Moderate Special Needs (Non-Licensure) program fall into 3 categories. The first set of courses meets the core education requirements common to several of the M.Ed. programs. There are four core courses, which total to ten (10) credits. Completion of these courses assures that candidates have acquired graduate level knowledge and skills in the foundation of education, and in the interpretation, planning and implementation of educational research.

Core M.Ed. Requirements (10 credits):

ED 981	Advanced Foundations of Education	3 credits
ED 982	Research in Education	3 credits
ED 993	Seminar: Research in Content Concentration	3 credits
ED 992	Portfolio Evaluation	1 credit

Candidates are advised to take the course, ED 981 Advanced Foundations of Education early in the program as it provides the foundation for the graduate program. The research course ED 982 Research in Education informs candidates on interesting areas of research as well as a foundation for ED 993 Seminar: Research in Content Concentration. The seminar course is completed near the end of the program and leads to a completed research paper in the area of Moderate Special Needs (Non-Licensure). ED 992 Portfolio Evaluation must be taken during the last semester. The course guides candidates in compiling a program portfolio that demonstrates successful attainment of the state standards and the college standards for the Master in Education Degree.

Core Content/Concentration Courses (24 credits):

ED 921	Developmental Patterns of Children with Special Needs	3 credits
ED 923	Development and Implementation of an Individualized Education Program	3 credits
ED 922	Analysis and Interpretation of Behavior and Learning Environments	3 credits
ED 924	Strategies for Assessing and Teaching Students with Moderate Special Needs	3 credits
ED 913	Differentiated Reading Instruction	3 credits
ED 914	Teaching Reading in the Content Areas	3 credits
ED 929	Mathematics Assessment and Instruction for Diverse Learners	3 credits
CD 910	Speech & Language Development, Differences, Diversity	3 credits

These courses are required to complete the M Ed. with a concentration in Moderate Special Needs (Non-Licensure) to meet the state regulations regarding “content or pedagogical courses beyond those for the initial license based on the academic discipline, developed or taught in collaboration with experts who hold at least a master’s degree in that discipline or hold a full time faculty position in that discipline in the arts or sciences or appropriate professional school other than education.”

Candidates are allowed to take additional courses as elective course under the advisement of the program coordinator.

Elective Courses (Suggested choices but not limited to):

EA 931	Administration of programs for children with Special Needs	3 credits
ED 911	Advanced Foundations of Reading	3 credits
ED 918	Reading as Language	3 credits
ED 925	Consultation and Interpersonal skills	3 credits
ED 901	Technology in Education	3 credits

ED 951	Integrating Language Arts and Social Studies in The Elementary/Middle Schools	3 credits
ED 953	Integrating Science and Mathematics in the Elementary/Middle Schools	3 credits
ED 917	Diagnosis and Remediation of Reading Difficulties In the Middle and Upper Grades or EE 915 Detection and Remediation of Early Reading Difficulties	3 credits

To access the online application and admission requirements, please go

to: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx> To

access the online information about the program, please go to:

<http://worchester.edu/Graduate/Shared%20Documents/Masters/MastEducationModerateSpecialNeeds.aspx?PageView=Shared>

MASTER OF EDUCATION—READING

Reading Graduate Coordinator: Dr. Margaret Pray Bouchard Phone: 508-929-8840

Email: mbouchard@worchester.edu

Admission

Requirements: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx> In addition:

- A teaching license at the Initial or Professional level.
- A foundation course in reading, taken as an undergraduate or graduate, or significant experience in teaching reading.
- A course in human, child, or adolescent development at the undergraduate or graduate level.
- For candidates who obtained licensure prior to the MTEL requirement, a passing score on the Communication and Literacy test.

Course of Study:

The Reading Specialist program at Worcester State University meets the needs of candidates seeking initial licensure as a reading specialist and Professional licensure in elementary education or early childhood education. The program is offered as a Master of Education program, and persons completing the program qualify for that degree as well as for Massachusetts state licensure as a reading specialist (all levels).

Three tracks have been designed in the program in recognition of the varied prior qualifications of educators seeking licensure as a Reading Specialist:

- The **New Field/New Licensure Type (Track 1)** is appropriate for entrants holding initial licensure in elementary or early childhood education, and who are seeking professional licensure in elementary or early childhood education along with initial licensure as a reading specialist.
- The **New Field with a Master's degree program (Track 2)** is designed for persons who have an initial license in a field other than elementary or early childhood education, or a Professional license, and who are seeking initial licensure as a reading specialist.
- The **New Field/Non-degree program (Track 3)** is designed for candidates who have both a minimum of an initial teaching license in another field and are seeking Initial license as a reading specialist.

In all three tracks, candidates progress through the program by completing a series of courses that build knowledge and application in general educational areas and in topics related to the knowledge standards for reading specialist licensure, progressively leading to more advanced and specialized reading courses. Students are advised to meet with the Reading graduate coordinator before beginning their program. Two other courses also required by other M.Ed. programs, ED 920 and CD 910, are required courses for the reading program because they provide important information regarding at-risk-student populations. Students receive the Graduate Reading Handbook upon entering the program.

As students progress through the program, they enroll in courses requiring prerequisites and leading to more advanced knowledge. Although most courses involve a strong application orientation, each

course also involves developing a sound research, theoretical foundation upon which to base practice. Courses within the program build knowledge and competence in language development, reading theory and instruction, and meeting the needs of all learners. A completed research project and a program portfolio are the capstone performance indicators of the program. The portfolio documents completion of the program and state requirements for Reading Specialist licensure.

New Field/New Licensure Type (Professional licensure) Track:

The New Field/New Licensure Type Track is designed for licensed Elementary or Early Childhood teachers seeking Initial licensure in Reading. This track is appropriate only for educators who have Initial licensure in elementary education or in early childhood education and want to obtain Professional licensure in their current field along with Initial licensure as Reading Specialist.

To complete the program candidates must complete a 43 credit program, which includes 31 credits in specialized reading courses. Candidates must pass the Reading Specialist MTEL and complete a 150 hour practicum or practicum equivalent. (Candidates must pass the Reading Specialist MTEL before registering for ED919 Reading Practicum.)

The program consists of the following courses:

ED 981	Advanced Foundations of Education	3 credits
ED 920	Cognitive & Affective Learning of Typical & Atypical Children	3 credits
One of the following assessment courses:		3 credits
EL 907	Assessing Teaching & Learning in Elementary Education or	
ED 959	Assessment and Classroom Management in the Middle School or ED 975 Assessment and Classroom Management in the Secondary School	
CD 910	Speech/Language Development, Differences and Diversity ST:	3 credits or
ED 971	Reading and Language Disabilities	3 credits
ED 911	Advanced Foundations of Reading	3 credits
ED 914	Teaching Reading in the Content Area	3 credits
ED 915	Administration and Supervision of Reading Programs	3 credits
ED 916	Literature in the Classroom	3 credits or
ED 971	Author's Institute	3 credits
EE 915	Detection and Remediation of Early Reading Difficulties	3 credits
ED 917	Diagnosis, Analysis and Remediation of Reading Difficulties in the Middle or Upper Grades	3 credits
ED 918	Reading as Language: Teaching Literacy to English Language Learners	3 credits
ED 919	Reading Practicum/Practicum Equivalent	3 credits
ED 982	Research in Education	3 credits
ED 983	Theory and Research in Reading	3 credits
ED 984	Reading Portfolio	1 credit

Total credits 43 credits

New Field/Master's of Education Track:

The following Master of Education program is designed for persons who do not have a M.Ed., but who have an Initial license in a field other than elementary education or early childhood education, or a Professional license and who are seeking Initial licensure as a reading specialist.

To complete the program, candidates must complete a 40 credit program, which includes 31 credits in specialized reading courses. Candidates must pass the Reading Specialist MTEL and complete a 150 hour practicum or practicum equivalent. (Candidates must pass the Reading Specialist MTEL before registering for ED919 Reading Practicum.)

The program consists of the following courses:

ED 920	Cognitive & Affective Learning of Typical & Atypical Children	3 credits
CD 910	Speech/Language Development, Differences and Diversity	3 credits or
ED 971	ST: Reading and Language Disabilities	3 credits
ED 911	Advanced Foundations of Reading	3 credits
ED 914	Teaching Reading in the Content Area	3 credits
ED 916	Literature in the Classroom	3 credits or
ED 971	Author's Institute	3 credits
ED 918	Reading as Language: Teaching Literacy to English Language Learners	3 credits
ED 915	Administration and Supervision of Reading Programs	3 credits
EE 915	Detection and Remediation of Early Reading Difficulties	3 credits
ED 917	Diagnosis, Analysis and Remediation of Reading Difficulties in the Middle or Upper Grades	3 credits
ED 919	Reading Practicum/Practicum Equivalent	3 credits
ED 982	Research in Education	3 credits
ED 983	Theory and Research in Reading	3 credits
ED 984	Reading Portfolio	1 credit
	Elective	3 credits
Total credits		40 credits

New Field/Non-Degree Track:

The following program is designed for persons who have a minimum of an Initial teaching license in another field and are seeking Initial licensure as a reading specialist. This is a graduate level, non-degree program.

Candidates meet with the coordinator of the graduate reading program to set goals for their program and have the option to waive up to 2 courses already taken as a part of their M.Ed. program (the program must include a minimum of 18 credits). In conjunction with the coordinator, each candidate then selects appropriate electives to meet requirements for Initial licensure for Reading Specialist. Candidates must pass the Reading Specialist MTEL and complete a 150 hour practicum or practicum-equivalent. (Candidates must pass the Reading Specialist MTEL before registering for ED919 Reading Practicum.)

The program consists of the following courses:

CD 910	Speech/Language Development, Differences and Diversity	3 credits or
ED 971	ST: Reading and Language Disabilities	3 credits
ED 911	Advanced Foundations of Reading	3 credits
ED 914	Teaching Reading in the Content Area	3 credits
ED 916	Literature in the Classroom	3 credits or
ED 971	Author's Institute	3 credits
ED 918	Reading as Language: Teaching Literacy to English Language Learners	3 credits
ED 915	Administration and Supervision of Reading Programs	3 credits
EE 915	Detection and Remediation of Early Reading Difficulties	3 credits
ED 917	Diagnosis, Analysis and Remediation of Reading Difficulties in the Middle or Upper Grades	3 credits
ED 919	Reading Practicum/Practicum Equivalent	3 credits
ED 984	Reading Portfolio	1 credit
Total credits		28 credits

MASTER OF EDUCATION—HEALTH EDUCATION

Program Coordinator: Dr. Mariana Calle

Phone: 508-929-8739

Email: mcalle@worcester.edu

To view the online application and graduate school requirements please go to: <http://worcester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

- I. The Master of Education, Concentration in Health Education program is designed to enhance professional preparation of health educators by advancing their knowledge and skills in the processes of health education. Students with minimal background in the field may be encouraged to take additional courses as prerequisites. This program does not fulfill the requirements for initial educator licensure in Health/Family and Consumer Sciences. The courses may be eligible for professional educator licensure. Contact the Massachusetts Department of Elementary and Secondary Education regarding current state regulations for licensure.

Requirements of the Program (33 credits): Required

Courses (18 credits)

ED 981	Advanced Foundations of Education	(3 credits)
ED 982	Research in Education	(3 credits)
HE 917	Health Theory & Methods	(3 credits)
HE 919	Program Planning Implementation and Evaluation	(3 credits)
HE 934	Social and Behavioral Statistics	(3 credits)
HE 945	Seminar in Health	(3 credits)

- II. Elective Courses in Health Education (15 credits) selected with the advisor's assistance.
- III. Each candidate must pass the Certified Health Education Specialist (CHES) exam. The CHES exam is sponsored by the National Commission for Health Education Credentialing, Inc. and is given twice a year.

The Master of Education with a concentration in Health Education enrolls students starting in the fall semester. Completed applications received by June 15th, will be reviewed for admissions decisions prior to the September start.

Graduate Education with a Concentration in Health Education Courses

HE 917 Health Theory and Methods

Focus is on creative applications of learning theories and behavioral models used by health educators.

3 credits

HE 918 Curriculum Development in Health

Exploration of curriculum models and their integration with philosophies of health behavior and education.

3 credits

HE 919 Program Planning, Implementation and Evaluation

This course is designed to help students understand and develop skills necessary to carry out program development regardless of setting.

3 credits

HE 922 Health Care Systems

A study of historical development of the American health care system and recent trends in organization, administration, and legislation.

3 credits

HE 924 Education for Wellness

Utilizes concepts of physical, mental, social, psychological, environmental, and spiritual wellness to enhance health education programming.

3 credits

HE 925 Politics and Policies of Health Care

Health care regulation and cost by government including the transition from private and professional to federal and state control.

3 credits

HE 930 Drugs, Alcohol, and Tobacco

The pharmacological, physiological and social effects of various drugs in our society. 3 credits

HE 932 Advanced Nutrition

Study of recent advances and trends in the relationship of diet and nutrition. 3 credits

HE 934 Social and Behavioral Statistics

Qualitative and quantitative data collection; hypothesis testing; measures of central tendency, variability, correlation and regression.

3 credits

HE 935 Sexuality Education

Historical, political, multicultural and personal approaches to understanding various aspects of human sexuality.

3 credits

HE 937 Women and Minority Health Issues

An examination of the effects of sexism and racism on the health and health care of women and minorities.

3 credits

HE 940 Epidemiology

Evaluation of epidemiological principles and techniques of investigation; measures of incidence and prevalence applied to health risk, morbidity and mortality in specific populations.

3 credits

HE 942 Research Methods in Health

An introduction to research and statistical designs as directly related to health science and allied health disciplines.

3 credits

HE 943 Current Literature in Health

Critical analysis of current and past research findings concerning health knowledge, attitudes, behaviors and educational techniques.

3 credits

HE 944 Special Topics in Health

An in-depth exploration of contemporary health topics and issues. 3 credits

HE 945 Seminar in Health

Discussion of current health topics with an emphasis on health educators' key responsibilities and competencies in various settings; also preparation of CHES.

3 credits

HE 950 Independent Study in Health

Independent research project. 3 credits

MASTER OF EDUCATION—SCHOOL LEADERSHIP AND ADMINISTRATION

Coordinator of Leadership Programs: Dr. Audrey E. Wright Phone: 508-929-8594

Email: awright1@worchester.edu

The Master of Education in Leadership and Administration is designed to prepare future school administrators for the complexities of the position within the dynamics of a rapidly changing society. The program is designed to meet Massachusetts Department of Education Initial Licensure requirements for Principals/Assistant Principals or Supervisors/Directors.

Admission

Applicants for admission to the Master of Education in Leadership & Administration must have completed a baccalaureate degree program at an accredited institution. To be considered for admission, applicants must possess an initial or professional teaching license in an area other than administration and have been teaching for at least two years.

As an alternate route, students who are not currently teaching but who wish to apply for the leadership and administration license must demonstrate completion of at least three full years of employment in an executive management/leadership role. This option can only be used with the approval of the program coordinator (documentation required).

To apply for consideration, applicants must provide the following:

- Graduate School application (www.worcester.edu/graduate)
- Essay explaining why the applicant is interested in becoming a school administrator, addressing the four professional standards for administrative leadership
- Copy of a Massachusetts initial or professional teaching license
- Minimum of at least two years of teaching experience; at least three years of teaching experience is required to earn the license
- Official transcripts of all college-level work, both undergraduate and graduate
- Official GRE or MAT scores
(waived for students possessing a Master's degree or above)
- Evidence of passing scores on the Communication & Literacy MTEL exam
- Three letters of reference from professionals who can speak to the applicant's promise of becoming an effective school administrator, including a letter of support from a school district administrator (See MEd in Leadership Letter of Recommendation form online)

Application Deadlines

The Master of Education in Leadership and Administration program will begin each fall semester. Completed applications received by June 15 will be reviewed for admissions decisions prior to the September start.

Program of Study**EA912 Introduction to Educational Leadership**

2 credits

Course description

This course will introduce students to the Massachusetts Standards for school administrators, the requirements of the WSU program; and, the theoretical underpinnings of educational leadership/administration. Portfolio requirements will be outlined.

EA913 Action research for School Administrators

2 credits

Course description:

The course will focus on Qualitative/quantitative research whereby the students will learn to carry out action research in their own school settings. Students will be conducting research as part of their course/practicum requirements relative to: Standard 1-Instructional leadership; Standard 2 – Management and Operations; Standard 3-Family and Community engagement; and, Standard 4- Professional Culture throughout the program. How to write real case studies will also be addressed as a way to do research.

EA918 Family and Community Engagement

3 credits

Course description:

Focus will be on ways to build strong working relationships and connections between families, community providers, and schools. How to effectively communicate and learn from families from diverse backgrounds and community members in order to promote student learning is emphasized.

EA950 (EL), EA951 (MS), EA952 (HS), or EA953 (supervisor/director)**Family and Community Practicum Standard 3****75 clock hours = 1 credit****Practicum description:**

The family and community engagement practicum is designed to prepare future administrative leaders to interact more effectively with parents and community organizations in order to promote the growth of ALL students within the school setting. Action research is part of the practicum. Portfolio assessment #1 submitted for evaluation.

EA970 Professional Culture

3 credits

Course Description:

This course focuses on ways to promote success of all students by examining, nurturing, and sustaining a school culture of reflective practice, high expectations, and ethical behavior. The importance of developing a shared vision, strong interpersonal skills, and effective written and oral communication in diverse environments are highlighted.

EA954 (EL), 955 (MS), 956 (HS), or 957 (Sup/dir.)**Professional Culture Practicum****Standard 4****75 clock hours = 1 credit**

Practicum description: The professional culture practicum is designed to prepare future administrative leaders to create and nurture a school culture that will promote the success of all students, set high expectations, encourage continuous learning, model reflective practice, and nurture tolerance and acceptance of all. The development of an achievable action plan is part of the practicum. Portfolio assessment #2 submitted for evaluation.

ES931 Leading an Effective English Learner Education Program 3 credits **

**Approved course as part of ELL program

(This may be substituted for another course with approval of coordinator if material covered in district requirement.)

EA924 Curriculum, Instruction and Assessment for Aspiring Leaders 3 credits**Course Description:**

This course seeks to engage aspiring leaders through a constructivist approach to teaching and learning with a focus on curriculum, instruction and assessment (CIA) that can positively impact the achievement of all students. CIA will be examined from a theoretical and practical perspective with a focus on the administrator's role in driving change that is grounded in research, data and equity for all.

EA972 Enhancing Teacher and Student Performance 3 credits**Course Description**

The major focus will be on supervision and evaluation practices that promote high standards, reflection, and increasing student achievement. The course will provide the participants with the necessary skills to hire and evaluate staff, promote improvement, and dismiss educators when needed.

EA973 Building the Capacity for Educational Change 3 credits**Course Description:**

Participants will examine the many variables that contribute towards realizing a school's vision and influencing student learning. The student will identify and analyze these variables using school, family, and community data. Planning for implementing change is part of the focus.

EA 958(EI), EA959 (MS), EA960(HS), or EA961 (Sup/dir.)**Instructional Leadership Practicum** **Standard 1** **75 clock hours = 1 cr.**

Practicum description: The instructional leadership practicum is designed to prepare future administrative leaders capable of promoting the growth of ALL students within the school setting by establishing a shared vision, aligned curriculum, instruction that facilitates higher level thinking and meets students' diverse backgrounds. An action research project is part of the practicum. Portfolio assessment #3 submitted for evaluation.

EA915 Economic and Operational Dimensions of Education 3 credits**Course description:**

This course focuses on blending the skills required for effective resource allocation coupled with the need to make practical and strategic decisions that promote student achievement in a safe/orderly learning environment.

EA923 Governance, Ethics, and Law in Education 3 credits**Course description:**

This course focuses on the myriad of legal, ethical, and mandated regulations that must be considered in creating and operating a school system.

EA 962 (El), 963 (MS), 964 (HS), or 965 (Sup/dir.)**Management and Operations Practicum Standard 2 (75 clock hours =1 credit)**

Course Description: This practicum is designed to prepare future administrative leaders who can use efficiently and effectively the resources available to promote a safe, ethical, and healthy environment in which students and staff can learn and meet the expected goals established by the Department of Education and local community. An action research component is part of the practicum. Portfolio assessment #4 submitted for evaluation.

EA966 (EL), 967 (MS), 968 (HS), or 969 (Sup/Dir.)**Educational Leadership Capstone Practicum and Culminating Seminar 200 clock hours and seminars = 3credits****Practicum description:**

This capstone practicum of 200 clock hours will focus on strategies for overall school improvement in the student's educational community; and, will build off of action research conducted in the course work/practicum completed for the four MA standards.

The three seminars attached to the practicum will be used to discuss issues and gain additional insights from peers seeking the same license and their university coach/supervisor. Action research activities that tie earlier research together are required.

EA929 Educational Leadership Capstone Assessment/Evaluation

1 credit

Course description:

This capstone assessment will be used to assess the student's overall ability to meet the four Massachusetts standards for school administrators. Submission of portfolio and presentation demonstrating action research undertaken during the program will be part of the capstone assessment process.

Total program = 36 credits

MASTER OF OCCUPATIONAL THERAPY

Program Coordinator: Dr. Joanne Gallagher Worthley

Phone: 508-929-8783

Email: Joanne.Gallagher@worchester.edu

Program Description

The Occupational Therapy Department offers a Master of Occupational Therapy (MOT) degree. Students with a baccalaureate degree in a field other than occupational therapy can complete the program of study in three years. The program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). Inquiries regarding accreditation may be made to: The Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, Suite 200, Bethesda, Maryland 20814-3449. ACOTE's telephone, c/o AOTA is or (301) 652-AOTA, and its web address is www.acoteonline.org.

Upon successful completion of Level II Fieldwork (OT 920 and OT 921), graduates will be eligible to sit for the certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of the examination, the individual will be an Occupational Therapist, Registered (OTR). Massachusetts and most other states require a license to practice occupational therapy. Eligibility for licensure is contingent on earning a passing score on the NBCOT examination. The Master of Occupational Therapy Program at Worcester State University is recognized by the World Federation of Occupational Therapists (www.wfot.org).

Requirements of the Program

- All OT undergraduate major courses must be completed with a C or better.
- All graduate courses must be completed with a B- or better and students must maintain a graduate GPA of 3.0.
- Courses must be taken in prescribed sequence or with Department Chair's approval.
- All coursework must be completed prior to beginning Level II Fieldwork.
- The second Level II Fieldwork must be completed within 12 months of the academic preparation.
- 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 may be conducted prior to Level I and Level II Fieldwork.

Prerequisites for Entry

- A baccalaureate from degree from an accredited institution in a related field with a cumulative grade point average of 3.0.
- Scores on the verbal, quantitative and writing sections of the GREs (around 50th percentile).
- Grades of B- or better taken within six years of application in the following courses. Please note, prerequisite course syllabi may be requested for review by the coordinator.

Introduction to Psychology

Developmental Psychology

Sociology, Anthropology, Economics, or Urban Studies (6 credits combined)

Anatomy and Physiology I & II, with labs (8 credits)

Statistics

Neuroscience with lab (4 credits)

1st Year Summer I

OT 101	Intro to Occupational Studies of Wellness/Disability	3 Credits
BI 271	Kinesiology	3 Credits
OT 211	Kinesiology Lab	1 Credit

1st Year Summer II

OT 102	Occupational Studies of Wellness/Disability Groups	3 Credits
OT 203	Occupational Therapy Theories	3 Credits

1st Year Fall Semester

OT 301	Psychosocial Wellness/Disability	2 Credits
OT 302	Psychosocial Therapeutic Approaches	2 Credits
OT 304	Psychosocial Therapeutic Approaches Lab	2 Credits
PS 322	Psychology of Aging	3 Credits
OT 317	Research I	3 Credits

1st Year Spring Semester

OT 312	Physiological Wellness/Disability	2 Credits
OT 313	Physiological Therapeutic Approaches	2 Credits
OT 318	Physiological Therapeutic Approaches Lab	2 Credits

2nd Year Fall Semester

OT 401	Occupational Performance & Context for Elders	2 Credits
OT 402	Therapeutic Approaches for Elders	2 Credits
OT 403	Therapeutic Approaches Lab for Elders	2 Credits
OT 404	Assistive Technology I	3 Credits
OT 407	Research II	3 Credits

2nd Year Spring Semester

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 & Professional Issues	3 Credits
OT 427	Therapeutic Approaches for Children/Adolescents	2 Credits
OT 928	Thesis Seminar I	3 Credits

3rd Year Summer Semester

OT 903	Clinical Reasoning I	3 Credits
OT 908	Community Health	3 Credits
OT 929	Thesis Seminar II	3 Credits
OT 933	Assessment and Evaluation Across the Lifespan	3 Credits

3rd Year Fall Semester

OT 905	Clinical Reasoning II	3 Credits
OT 906	Global Health Issues	3 Credits
OT 930	Thesis Seminar III	3 Credits
OT 931	Organizational & Professional Issues II	3 Credits

3rd Year Spring Semester

OT 920	Physical Disabilities Fieldwork II	3 Credits
OT 921	Psychosocial Fieldwork II	3 Credits

Occupational Therapy Courses

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.

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.

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.

3 credits

OT 211 Kinesiology Lab

Opportunities to develop skills that apply kinesiology to occupational therapy practice.

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.

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.

2 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.

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.

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.

2 credits

OT 317 Research I

Course examines measurement issues, concerns and tools; and why and how to use evidence in practice.

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.

2 credits

OT 401 Occupational Performance & 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.

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.

2 credits

OT 403 Therapeutic Approaches Lab for Elders

Experiential learning with assessments and intervention approaches for elders. Includes Fieldwork I experience in various sites off campus.

2 credits

OT 404 Assistive Technology I

Assistive technology related to the needs of the adult and geriatric populations will be explored

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.

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.

2 credits

OT 421 Occupational Performance & 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.

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.

2 credits

OT 424 Assistive Technology II

Assistive technology applied to the occupational performance and context of child and adolescent populations.

3 credits

OT 426 Organizational & Professional Issues I

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.

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.

2 credits

OT 903 Clinical Reasoning I

Seminar to apply clinical reasoning skills to case studies integrating all aspects that influence therapeutic decision making, including, occupational performance areas, components, and contexts. *3 credits*

OT 905 Clinical Reasoning II

Continuing seminar to apply clinical reasoning skills to case studies integrating all aspects that influence therapeutic decision-making, including occupational performance areas, components, and contexts.

3 credits

OT 906 Global Health Issues

Understanding health issues from a global perspective of the economic, political, social, and cultural forces, which impact on health and health services.

3 credits

OT 908 Community Health

Community as a context for human functioning and occupational therapy intervention. Includes community placement.

3 credits

OT 920 Physical Disabilities Fieldwork II

Twelve weeks of full-time (or equivalent part-time) fieldwork in approved physical disabilities setting with supervision that meets ACOTE Standards.

3 credits

OT 921 Psychosocial Fieldwork II

Twelve weeks of full-time (or equivalent part-time) fieldwork in approved psychosocial setting with supervision that meets ACOTE Standards.

3 credits

OT 928 Thesis Seminar I

Seminar focusing on the development of thesis proposals.

3 credits

OT 929 Thesis Seminar II

Seminar focusing on the collection and analysis of data.

3 credits

OT 930 Thesis Seminar III

Seminar focusing on writing and disseminating a research report

3 credits

OT 931 Organizational & Professional Issues II

An advanced seminar exploring issues relevant to the changing roles and responsibilities of practitioners and to the rapidly evolving practice contexts.

3 credits

OT 932 Specialty Fieldwork II

Twelve weeks of full-time (or equivalent part-time) fieldwork in an approved specialty setting with supervision that meets ACOTE Standards.

3 credits

OT 933 Assessment and Evaluation Across the Lifespan

This course provides an overview of the occupational therapy and evaluation process. Selection, interpretation and documentation of assessments will be examined.

3 credits

MASTER OF SCIENCE IN BIOTECHNOLOGY

Program Coordinator: Dr. Peter Bradley

Phone: 508-929-8571

Email: pbradley@worchester.edu

The Master of Science in Biotechnology is a part time program designed to broaden the students understanding of the biological sciences and to prepare the student for professional careers in Biotechnology or doctoral study. Classes are usually held in the evenings and combine lectures with laboratory experiences in a broad range of subjects. Individual courses are open to students who hold a Bachelor's degree in a biological subject or Biotechnology. Many students enrolled in the program part-time are employed in Massachusetts Biotech companies and have finished the program in three years.

Prerequisites for Admission to the Program:

In order to be admitted to the program a candidate must meet the Worcester State University general admission requirements for the degree of Master of Science. To view these requirements please go to: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

The program is open to graduates of accredited institutions of higher education who have been awarded a baccalaureate degree in Biology, Biotechnology, Chemistry or similar majors and they can start taking classes while they are applying. Graduate study in Biotechnology at Worcester State University assumes sound undergraduate training and pronounced academic capability. The applicant should have achieved a minimum grade point average of 2.75 in all undergraduate work and an average of 3.00 in all course work within his/her major at the junior and senior level.

Program of Study for the Degree

The quantitative requirement for the degree is 33 graduate credits in an approved schedule of courses within the program. In addition, students must show computer science proficiency or statistics competency. This ancillary requirement is usually satisfied by taking an additional approved course. All work for the degree must be completed within a period of six years from the date of admission to the program.

Of the 33 credits required for the degree, at least 21 credits must be earned as a matriculated graduate student at Worcester State University. Credits for which students have earned a "B-" or higher within a two year period immediately prior to the date of their acceptance into the program are transferable from an accredited institution, including credits earned at Worcester State University. A maximum of 12 such transfer credits may be accepted. Matriculated students who do not maintain a GPA 3.0 or higher or have two grades below a "B-" will be terminated from the program.

Degree Requirements required of all students:

- Satisfy ancillary requirement in statistics or computer science BI
- 921 Biotechnology and DNA 4 credits
- BI 927 Tissue Culture Techniques 3 credits BI
- 930 Biological Chemistry 3 credits
- Biology or Chemistry electives 14 credits minimum BI
- 990 Seminar in Biology/Biotechnology 3 credits
- BI 995 Research in Biology/Biotechnology 6 credits (Acceptable thesis and thesis defense)

Elective Courses are from this list or others when approved by the faculty:

- BI 905 Historical Perspectives
- BI 910 Public Health Parasitology
- BI 915 Advanced Botany

BI 935	Biochemical Techniques
BI 936	Immunology
BI 937	Molecular Virology
BI 938	Toxicology
BI 940	Reproductive Physiology
BI 945	Neuroendocrinology
BI 980	Selected Topics in Advanced Biology
BI 981	Independent Study in Biology/Biotechnology
985	Graduate Internship in Biology/Biotechnology
CH 941	Biochemistry of Nucleic Acids
CH 942	Structure & Function of Proteins
CH 943	Laboratory Techniques in Biochemistry
CH 990	Special Problems in Chemistry
CH 991	Directed Study
CH 996	Internship in Chemistry

To fulfill requirements for the Course BI 995 Research in Biology/Biotechnology (6 credits) the candidate must complete an acceptable thesis or paper submitted in publishable format based upon the original research based on laboratory research experience. Laboratory investigations are supervised by faculty in the laboratories at Worcester State University or by arrangement at another institution. The candidate must adhere to the form specified for the thesis by the Biology Department graduate faculty. The thesis will be defended in an oral examination conducted by the faculty. During the semester in which the candidate anticipates receiving the degree, the following timetable for the thesis completion and defense shall apply.

1. A minimum of four weeks prior to graduation the paper must be presented to the candidate's graduate research advisor.
2. A minimum of two weeks prior to commencement the final copy of the paper, following approval by the candidate's graduate research advisor, will be evaluated.

Comprehensive Examination/Thesis defense:

To receive the Master of Science in Biotechnology the candidate is required to pass a comprehensive examination/thesis defense in the candidate's area of specialization. If a candidate fails the examination he/she will be granted one other chance to satisfactorily fulfill this requirement. At least twenty-four approved graduate credits must be earned before the candidate can submit a request for the scheduling of a comprehensive exam/thesis defense.

Biotechnology Graduate Courses**BI 905 Historical Perspectives in Biology**

The nature, processes, and research approaches of the major biological discoveries and emerging new paradigms from the 17th century to present.

3 credits

BI 910 Public Health Parasitology

Biology, epidemiology, disease processes, control and prevention of human parasites. Concentrates on selected protozoan, helminth, and arthropod organisms. Includes three hour laboratory.

4 credits.

BI 915 Topics in Advanced Botany

Explores and reviews specialized topics in the life of plants. Includes three hour laboratory. 4 credits.

BI 920 Population Biology

Analyzes population density, growth, regulation, and energy relationships. Population interactions, organization, and evolution are stressed.

3 credits

BI 921 Biotechnology and DNA

Applications of recombinant DNA technology, together with business and industry information and government regulation. Includes a three hour laboratory.

4 credits.

BI 923 Fermentation Technology

The growth of microorganisms in bioreactors under sterile conditions and the production of useful products.

3 credits

BI 924 Recombinant DNA

A theoretical course covering the basic concepts of DNA structure, the role of DNA in cells and how genes are isolated and cloned.

3 credits

BI 925 Cell Physiology

Examines the cellular mechanisms involved in maintaining homeostasis in response to changes in the cellular environment. Includes three hour laboratory.

4 credits.

BI 927 Tissue Culture Techniques

Prerequisite: B.S. in a biological science

Presents the most important techniques used for mammalian tissue culture by lecture and laboratory demonstration and practice. The course also includes topics in plant tissue culture.

3 credits

BI 930 Biological Chemistry

Concerns the physical, chemical, and biological properties and metabolism of carbohydrates, proteins, lipids, DNA, and RNA.

3 credits

BI 935 Biochemical Techniques

Prerequisite: BI 930

Topics include the isolation and characterization of biochemical compounds with emphasis on nucleic acids and proteins. One hour of lecture and three hours of laboratory.

3 credits

BI 936 Immunology

Prerequisite: B.S. in a biological science

Recent advances in understanding the immune system will be covered. 3 credits

BI 937 Molecular Virology

Prerequisite: B.S. in a biological science

A study of virus families with emphasis on replication and regulation of gene expression. 3 credits

BI 938 Toxicology

A theoretical course presenting the principles and mechanisms of toxic damage to cells, organs and organisms.

3 credits

BI 940 Reproductive Physiology

Concerns the influence of sex hormones on the reproductive system, beginning with embryogenesis and early maturation and extending into the areas of fertilization, pregnancy, gestation, parturition, and lactation. Includes

three hour laboratory. 4 credits.

BI 945 Neuroendocrinology

Emphasizes the hypothalamo-hypophysial system in mammals together with its influence on the central nervous system.

3 credits

BI 950 Physiological Ecology

Considers the physiological adjustments which animals make in response to environmental factors; emphasizes the physiological basis of animal evolution and distribution.

3 credits

BI 955 Herpetology

Concerns the structural and functional characteristics of amphibians and reptiles, their origin and evolution, their ecological relationships, and their distribution and natural history. Includes three hour laboratory.

4 credits.

BI 960 Biology of Symbiosis

Nutritional, metabolic, and evolutionary mechanisms of partnerships in nature with emphasis on the universality of symbiosis. Includes three hour laboratory.

4 credits.

BI 980 Selected Topics in Advanced Biology

Each topic is a timely and exciting new lecture and/or laboratory course. Topics will be announced in advance and will service needs in growth areas; e.g., biotechnology.

3-4 credits.

BI 981 Independent Study in Biology/Biotechnology

Prerequisite: Consent of department and instructor.

Independent study or directed study on a topic of interest to both the student(s) and the instructor. 1-6 credits.

BI 985 Graduate Internship in Biology/Biotechnology

Prerequisite: Successful completion of a minimum of 12 graduate credits toward the degree and approval of the Biology faculty. Provides M.S. candidates the chance to gain practical experience at off-campus agencies where technical and analytical skills can be gained.

3-4 credits.

BI 990 Seminar in Biology/Biotechnology

Study and discussion of current researches, books, and periodicals in the field of biology; includes reports of research in progress. Required of all graduate degree candidates.

3 credits

BI 995 Research in Biology/Biotechnology

Original research in biology under faculty supervision. Requires an acceptable thesis or paper in publishable format. Required of all degree candidates. May be repeated.

1-6 credits.

Chemistry Graduate Courses**CH 941 Biochemistry of Nucleic Acids**

Prerequisites: Biochemistry I, Modern Biochemistry, or Biological Chemistry

The structure and function of DNA and RNA. Topics include bacterial, viral, and eukaryotic nucleic acids.

3 credits

CH 942 Structure and Function of Proteins

Prerequisites: Biochemistry I, Modern Biochemistry, or Biological Chemistry

The biochemistry of proteins. Particular emphasis is given to enzymes and the kinetics of enzyme-catalyzed reactions.

3 credits

CH 943 Laboratory Techniques in Biochemistry

Prerequisites: Biochemistry I, Modern Biochemistry, or Biological Chemistry

This course includes the isolation and characterization of biochemical compounds with emphasis on nucleic acids and proteins, including enzymes.

3 credits

CH 990 Special Problems in Chemistry

Prerequisite: Consent of department

A laboratory or library research project conducted in consultation with a faculty member. 3 credits

CH 991 Directed Study

Prerequisite: Consent of department

Designed for the student who wishes to undertake an individualized study in chemistry on a topic mutually agreeable to student and instructor.

1-4 credits.

CH 996 Internship in Chemistry

Prerequisite: Consent of department

Research project completed at an institution other than WSU by a student with a non-WSU sponsor and WSU liaison. Requires a final typewritten report.

3 credits

MASTER OF SCIENCE IN NURSING: COMMUNITY AND PUBLIC HEALTH NURSING SPECIALIZATION

Program Coordinator: Dr. Stephanie Chalupka

Phone: 508-929-8680

Email: schalupka@worchester.edu

Admission Requirements: Traditional Entry; Bridge Program; RN-to-MS Fast Track Program

Program Description:

The Master of Science program in Nursing prepares nurses for leadership as advanced public health nurses in management, education, clinical practice, leadership, policy development, and advocacy. The program offers three routes of entry for Registered Nurses seeking a Master of Science in Nursing degree. The pathways to the Master of Science Degree are:

- Traditional Entry:** For students with a BS degree in Nursing.
- Bridge Program:** For Registered Nurses with a Non-Nursing BA or BS degree.
- RN-to-MS Fast Track:** For associate-degree or diploma-prepared Registered Nurses seeking to proceed directly to the Master of Science in Nursing Degree.

The program consists of both coursework and a practicum. This specialty offers leadership preparation for nurses desiring expertise in population-based community/public health nursing practice. Students ground their studies in the science of nursing intervention, public health, and nursing research. They then focus on courses that examine the basis of assessment and intervention of populations, integrating the study of health determinants and health disparities. Practicum experiences are arranged to meet the individual needs of students while also meeting accreditation and certification requirements.

In addition to completing core studies in the specialty, students also gain skills in evidence-based practice, program evaluation, informatics, teaching/learning, health economics, health care policy, environmental health, and epidemiology. A final project that is a systematic investigation of a practice problem is planned, implemented, and completed during the program.

Completion of the required coursework and practice hours provides eligibility to sit for the Advanced Public Health Nurse certification examination offered by the American Nurses Credentialing Center.

The clinical component of the program allows for students to develop concentrations in one of the following areas:

- Public Health
- Home Health Care
- Ambulatory Care
- Case Management
- Occupational and Environmental Health Nursing
- School Nursing
- Emergency Preparedness
- Nursing Education

Specialty Area Information:

The Advanced Public Health Nurse is actively engaged in education (e.g. community, staff, students, and colleagues), case management, expert clinical practice, consultation, research, and administration.

The Advanced Public Health Nurse is a leader in population-based health care practice, and the implementation of this role is based on the American Nurses Association *Public Health Nursing: Score and Standards for Practice* competencies and will vary across settings. Graduates of this program are eligible to sit for the American Nurses Credentialing Center examination for certification as an Advanced Public Health Nurse.

Professional Opportunities

With increasing demand for health professionals who have expertise in promoting the health of population groups, graduates of the nursing degree are well positioned to assume leadership roles in the evolving health care field. The Nursing degree provides a foundation of knowledge and practical experiences in the following areas:

- public health sciences including biostatistics, environmental health, epidemiology systems thinking, leadership, informatics, health policy and management
- advanced population-focused assessment, program planning, and intervention
- advanced development and evaluation of health promotion programs
- approaches to work with culturally diverse and high-risk populations
- social justice and social action, and
- emergency preparedness

Where do graduates work?

Graduates of the Nursing program hold a variety of positions in education (e.g. community, staff, students, and colleagues), case management, clinical practice, consultation, research, and administration.

Examples of advanced public health nursing positions are:

- health promotion specialist for a managed care organization,
- consultant with a state health department,
- nursing and public health faculty at universities and colleges,
- public health nursing advisor at a state department of public health,
- emergency preparedness coordinator,
- director of student health services at a college,
- supervisor of clinical services for a community health center,
- director of clinical services in ambulatory care division of an acute care hospital,
- director of local public health department,
- planner of patient education for a large outpatient service,
- program director in an international non-governmental organization,
- occupational and environmental health settings,
- school nurse/school nurse leadership positions,
- staff development specialist for a home healthcare agency
- Executive Director home healthcare agency

Admissions Requirements:

Traditional Entry:

For students with a BS degree in Nursing

- Baccalaureate degree in Nursing
- Introductory or undergraduate courses in statistics and research.
- Satisfactory scores on GRE or MAT (taken within five years of the date of application).
- Unencumbered license to practice as a Registered Nurse in Massachusetts

Bridge Program

For Registered Nurses with a Non-Nursing BA or BS degree. The seven (7) credit Bridge Program option which enables students to enter directly into the Master of Science in Nursing program.

- B.A. or B.S. degree in non-nursing discipline
- Introductory or undergraduate courses in statistics and research.
- Satisfactory scores on GRE or MAT (taken within five years of the date of application).
- Unencumbered license to practice as a Registered Nurse in Massachusetts

RN-to-MS Fast Track

For Registered Nurses seeking to proceed directly to the Master of Science in Nursing Degree

- Associate of Science Degree in Nursing or Diploma in Nursing
- Unencumbered license to practice as a Registered Nurse in Massachusetts

This program is fully accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036

Requirements of the Program

The Master of Science in Nursing requires the completion of forty-two (42) credit hours of graduate courses. Most Nursing courses are offered in the blended-learning format, combining the best of face-to-face and online learning.

Required Courses for the Master of Science Degree in Nursing

Traditional Entry

Professional Core

- NU 910 Professional Role Development (3 credits)*
- NU 920 Conceptual Foundations of Nursing (3 credits)*
- NU 925 Research for Evidence-Based Practice (3 credits)*
- NU 951 Nursing Leadership and Administration (3 credits)*

Interdisciplinary Courses

- NU 936 Epidemiology (3 credits)*
- NU 941 Program Planning and Evaluation (3 credits)
- NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits)
- NU 946 Biostatistics (3 credits)

Specialty Courses in Community/Public Health Nursing

- NU 961 Nursing Science I: Community/Public Health Leadership Theory and Practicum (9 credits)*
- NU 966 Nursing Science II Community/Public Health Leadership Theory and Practicum (9 credits)*

* Courses offered in the blended-learning format.

Note: The Traditional Entry Program is usually completed in 3 years of part-time study or two years of full-time study.

Required Courses for the Master of Science Degree in Nursing

Bridge Program

This program provides Registered Nurses, who hold a B.A. or B.S. in a discipline other than Nursing, with the opportunity to enter and complete the Master of Science in Nursing program at Worcester State University. The program prepares Bridge students for M.S. level work by assuring that they have achieved the educational outcomes of the B.S. in Nursing Program.

Bridge Core

- NU 900 Individual Assessment (1 credit)*
(Must be completed before end of first semester of part-time study.)
- NU 901 Community Health and Health Policy (3 credits)*
(Must be completed before end of third semester of part-time study.)
- NU 902 Transition to Advanced Nursing (3 credits)*
(Must be completed before end of the fourth semester of part-time study.)

Professional Core

- NU 910 Professional Role Development (3 credits)*
- NU 920 Conceptual Foundations of Nursing (3 credits)*
- NU 925 Research for Evidence-Based Practice (3 credits)*
- NU 951 Nursing Leadership and Administration (3 credits)*

Interdisciplinary Courses

- NU 936 Epidemiology (3 credits)*
- NU 941 Program Planning and Evaluation (3 credits)
- NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits)
- NU 946 Biostatistics (3 credits)

Specialty Courses in Community/Public Health Nursing

- NU 961 Nursing Science I: Community/Public Health Leadership Theory and Practicum (9 credits)*
- NU 966 Nursing Science II Community/Public Health Leadership Theory and Practicum (9 credits)*

Bridge students must:

1. Complete the self-evaluation assessment of prior learning tool at the time of entry into the program.
2. Meet with their assigned graduate program advisor to plan a course of study that bridges BS expectations and entry into graduate nursing studies.
3. Compile a portfolio of their professional activities according to the guidelines and submit it to the Graduate Program Coordinator. The portfolio will be evaluated by the Graduate Program Coordinator and an individualized educational plan will be developed to support the student in the achievement of all baccalaureate level competencies.

Note: The Traditional Entry Program is usually completed in 3 years of part-time study or two years of full-time study.

Required Courses for the Master of Science Degree in Nursing

RN-to-MS Fast Track Program

The *RN-to-MS Fast Track Program* provides an opportunity for associate degree and diploma-prepared nurses to obtain the Master of Science in Nursing Degree. The *RN-to-MS Fast Track Program* curriculum is characterized by flexibility and recognition of the diversity of the students who enroll.

The *RN-to-MS Fast Track Program* allows students to work toward their Bachelor of Science in Nursing and Master of Science in Nursing degrees in one integrated program. The Graduate Record Exam, generally required for admission to master's degree programs, is NOT required for admission in to the *RN-to-MS Fast Track Program*.

Six (6) graduate credits (500 Level) taken while completing the undergraduate senior year count toward both degrees *only when the RN meets the criteria for the Fast Track program, completes an application to the Graduate Nursing Program through the Graduate School, and is accepted into the RN-to-MS Fast Track Program during the first semester as a student in the RN-to-BS Program*.

Students can typically complete the *RN-to-MS Fast Track Program* in *nine part-time semesters*. Only course grades of B- or above can be counted toward the Master of Science in Nursing degree.

Fast track students must take courses in the M.S. program the semester after completing the requirements for 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.

Admission Process

The RN student applying to Worcester State University as a transfer student can receive up to 65 credits transferable from associate degree colleges and a maximum of 90 credits from four year colleges or universities. WSU has articulation agreements with many area colleges for transfer credits (up to 23 credits may be approved for nursing credits).

The RN student who graduated from a nursing diploma program must take the NLN Mobility Profile II Mobility Exam as a prerequisite, which allows the students to obtain up to 23 nursing credits. All RN students must hold a current license to practice nursing in the Commonwealth of Massachusetts.

Students interested in applying to the RN-to-MS program are advised to contact the RN-to-BS Coordinator, at 508 929-8960.

RN-to-MS Prerequisite Courses

These courses may be transferred if the student has previously taken the course (per Worcester State University transfer policy) or may be taken at WSU:

EN 101 & EN 102	English Composition 1 & II (*EN 101 may be waived)
MA 150	Introduction to Statistics (*pre requisite for NU 430-A: Research Seminar OR NU 925: Nursing Research in Advanced Practice) An <i>Accuplacer</i> math test (offered at WSU) may be needed prior to registering for statistics at WSU
SO 100	Introduction to Sociology
PS 101	General Psychology
PS 210	Child Growth and Development
PS121	Survey of Life Span Development

RN-to-MS Foundational Nursing Courses

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.

NU 124	Health Informatics (3 credits)
NU 332	Transition to Professional Nursing (2 credits)
NU 342A	Health Assessment (3 credits)
NU 525	Research for Evidence-Based Practice (3 credits)* <i>Satisfies NU 925 Requirement in the RN-to-MS Fast Track Program</i>
NU 432	Advancing Nursing Perspectives in Chronic Illness (8 credits)
NU 551	Nursing Leadership and Administration (3 credits) <i>Satisfies NU 951 Requirement in the RN-to-MS Fast Track Program</i>
NU 472	Community Nursing Capstone (8 credits)

Course descriptions for all undergraduate courses may be found in the Worcester State University undergraduate catalog.

RN-to-MS Specialty Courses**Professional Core**

NU 910	Professional Role Development (3 credits)*
NU 920	Conceptual Foundations of Nursing (3 credits)*
NU 925	Research for Evidence-Based Practice (3 credits)*
NU 951	Nursing Leadership and Administration (3 credits)*

Interdisciplinary Courses

NU 930	Social Policy and the Economics of the Health Care Delivery System (3 credits)
NU 936	Epidemiology (3 credits)*
NU 941	Program Planning and Evaluation (3 credits)
NU 946	Biostatistics (3 credits)

Specialty Courses in Community/Public Health Nursing

NU 961	Nursing Science I: Advanced Community/Public Health Leadership Theory and Practicum (9 credits)*
NU 966	Nursing Science II: Advanced Community/Public Health Leadership Theory and Practicum (9 credits)*

* Courses offered in the blended-learning format.

Nursing Courses**NU 900: Individual Assessment (1 credit)**

Bridge Program students only

The RN with a B.S. or B.A. degree in a discipline other than nursing identifies individual learning outcomes in their Master's program of study.

NU 901: Community Health and Health Policy (3 credits)

Bridge Program students only

This course analyzes the development of policy and its impact on the health of populations. Students apply epidemiology and public health science to population-based nursing practice.

NU 902: Transition to Advanced Nursing (3 credits)

Bridge Program students only

Designed for registered nurses with bachelor's degrees in areas other than nursing, provides a common knowledge base including the community perspective as a foundation for graduate study in nursing. The realities of modern nursing practice are examined.

NU 910 Professional Role Development (3 credits)

The role of the advanced public health nurse is analyzed in terms of professional scope of practice, standards of practice and components of the role. This course provides a framework for advanced nursing practice.

NU 920 Conceptual Foundations in Nursing (3 credits)

This course concentrates on the philosophical basis of theory development and application. Students are introduced to the levels of theory building, concept formation and the elements of a model while considering the values and goals of nursing actions.

NU 925 Research for Evidence-Based Practice (3 credits)

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 is emphasized.

NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits)

Provides the student with the knowledge necessary to comprehend the political, economic and social elements that affect health and health services. The student develops an understanding of the regulatory environment and its impact on the delivery of nursing care.

NU 936 Epidemiology (3 credits)

Evaluation of epidemiological principles and techniques of investigation; measures of incidence and prevalence applied to health risk, morbidity and mortality in specific populations.

NU 941 Program Planning and Evaluation (3 credits)

Program Planning and Evaluation is an interdisciplinary course to facilitate student learning in the design, development and monitoring of multi-level strategies that promote movement toward optimal health and social justice for diverse ethnic populations and communities.

NU 946 Biostatistics (3 credits)

This course links statistical methods to epidemiology and ultimately, to practice issues in diverse cultural populations and communities. Students draw upon knowledge acquired from the physical science to interpret and summarize statistical data in meaningful ways.

NU 951 Nursing Leadership and Administration (3 credits)

Provides the student with the necessary skills to integrate appropriate business, economic, financial, leadership and management concepts into effective strategies to effect change in community/public health agencies and healthcare organizations.

NU 961 Nursing Science I: Community/Public Health Leadership Theory and Practicum I (9 credits)

Concentrates on community/populations as the graduate student focuses on the diagnostic phases of care. The student synthesizes previous knowledge and theory to assess and monitor the health status of selected communities in health departments, neighborhoods, parishes or individual settings.

NU 966 Nursing Science II: Community/Public Health Leadership Theory and Practicum II (9 credits)

This course provides the graduate nursing student with the opportunity to evaluate the various

processes which are utilized to achieve optimal population and community health. Selected clinical practices encourage the student to utilize theory, research and information technology to manage and evaluate program effectiveness.

MASTER OF SCIENCE IN NURSING: NURSE EDUCATOR SPECIALIZATION

Program Coordinator: Dr. Stephanie Chalupka Phone: 508-929-8680

Email: schalupka@worcester.edu

Program Description:

Nurse educators are the key resource in preparing a nursing workforce that will provide quality care to meet the health care needs of our population. They practice in academic and clinical settings, and they must be competent clinicians. However, while being a good clinician is essential, it is not necessarily sufficient for the educator role.

The Nurse Educator Specialization program is designed to expand the knowledge base of registered professional nurses to prepare them for the role of nurse educator in four areas:

- Higher education
- Vocational education
- Staff education
- Patient education

The program will provide theoretical and practical knowledge in the areas of curriculum development, instructional design, advanced teaching methods, and program evaluation.

Worcester State University offers three routes of entry for Registered Nurses seeking a Master of Science in Nursing degree. The pathways to the Master of Science Degree are:

Traditional Entry: For students with a BS degree in Nursing.

Bridge Program: For Registered Nurses with a Non-Nursing BA or BS degree.

RN-to-MS Fast Track: For associate-degree or diploma-prepared Registered Nurses seeking to proceed directly to the Master of Science in Nursing Degree.

The curriculum is based on the practice dimensions of the nurse educator role, recommendations of the National League for Nursing (NLN), and the AACN Essentials of Master's Education. Graduate of the Nurse Educator Specialization program are eligible to sit for the National League for Nursing Certified Nurse Educator^{CM} examination after meeting the experiential requirement. Graduates are also eligible to sit for the American Nurses Credentialing Center (ANCC) certification examination in Nursing Professional Development after meeting the experiential requirement.

This is a 42 credit hour program designed for students who have established an expertise in a clinical area and are now interested in nursing education. The curriculum includes coursework related to high fidelity patient simulation strategies, as well as other emerging technologies and related teaching methodologies to improve education outcomes.

The Nurse Educator Specialization curriculum is designed to meet the learning needs of students who are working full-time. Most courses are taught in the blended-learning format which combines the best of face-to-face and online learning. The blended-learning format significantly reducing the amount of time students spend on campus, while maximizing interaction with faculty members and fellow students.

A Post-Graduate Certificate Program in Nursing Education also is available to students who have earned the Master of Science in Nursing degree.

Admission Requirements

Traditional Entry:

- Baccalaureate degree in Nursing.
- Introductory or undergraduate courses in statistics and research.
- Satisfactory scores on GRE or MAT (taken within five years of the date of application).
- Unencumbered license to practice as a Registered Nurse in Massachusetts

Bridge Program • B.A. or B.S. degree in non-nursing discipline.

- Introductory or undergraduate courses in statistics and research.
- Satisfactory scores on GRE or MAT (taken within five years of the date of application).
- Unencumbered license to practice as a Registered Nurse in Massachusetts.

RN- to- MS Fast Track

- Associate of Science Degree in Nursing or Diploma in Nursing.
- Unencumbered license to practice as a Registered Nurse in Massachusetts.

This program is fully accredited by the Commission on Collegiate Nursing Education (CCNE), One Dupont Circle, NW, Suite 530, Washington, DC 20036

Master of Science in Nursing Program of Studies—Nurse Educator Specialty Track**Traditional Entry**

(For students with a B.S. degree in Nursing)

First Year

Semester I: Spring

NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits) NU
946 Biostatistics (3 credits)

Semester II: Summer

NU 937 Advanced Health Assessment (3 credits)*

Semester III: Fall

NU 933 Nursing, Health, and the Environment (3 credits)* NU
925 Research for Evidence-Based Practice (3 credits)*

Second Year

Semester I: Spring

NU 938 Advanced Concepts in Physiology and Pathophysiology (3 credits)*
NU 910a Professional Role Development: Philosophical and Theoretical Foundations of Nursing
Education (3 credits)*

Semester II: Summer

NU 939 Advanced Concepts in Pharmacology (3 credits)*

Semester III: Fall

NU 920 Conceptual Foundations of Nursing (3 credits)* NU
940 Curriculum and Instructional Design (3 credits)*

Third Year

Semester I: Spring

NU 951 Nursing Leadership and Administration (3 credits)*
NU 942 Teaching & Learning in the Age of Technology (4 credits)*

Semester II: No summer course

Semester III: Fall

NU 943 Practicum in Teaching & Learning* (5 credits)

* Indicates that course is delivered in the blended-learning format.

The Nurse Educator Specialty Track is funded in part by a grant from the Greater Worcester Community Foundation.

Program of Studies for Master of Science Degree in Nursing: Nurse Educator Specialty Track

Bridge Program

This program provides Registered Nurses, who hold a B.A. or B.S. in a discipline other than Nursing, with the opportunity to enter and complete the Master of Science in Nursing program at Worcester State University. The program prepares Bridge students for M.S. level work by assuring that they have achieved the educational outcomes of the B.S. in Nursing Program.

Bridge Core

- NU 900 Individual Assessment (1 credit)*
- NU 901 Community Health and Health Policy (3 credits)*
- NU 902 Transition to Advanced Nursing (3 credits)*

First Year

Semester I: Spring

- NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits) NU
- 946 Biostatistics (3 credits)

Semester II: Summer

- NU 937 Advanced Health Assessment (3 credits)*

Semester III: Fall

- NU 933 Nursing, Health, and the Environment (3 credits)* NU
- 925 Research for Evidence-Based Practice (3 credits)*

Second Year

Semester I: Spring

- NU 938 Advanced Concepts in Physiology and Pathophysiology (3 credits)*
- NU 910a Professional Role Development: Philosophical and Theoretical Foundations of Nursing Education (3 credits)*

Semester II: Summer

- NU 939 Advanced Concepts in Pharmacology (3 credits)*

Semester III: Fall

- NU 920 Conceptual Foundations of Nursing (3 credits)* NU
- 940 Curriculum and Instructional Design (3 credits)*

Third Year

Semester I: Spring

- NU 951 Nursing Leadership and Administration (3 credits)*
- NU 942 Teaching & Learning in the Age of Technology (4 credits)*

Semester II: No summer course

Semester III: Fall

- NU 943 Practicum in Teaching & Learning* (5 credits)

Bridge students must:

1. Complete the self-evaluation assessment of prior learning tool at the time of entry into the program.
2. Meet with their assigned graduate program advisor to plan a course of study that bridges BS expectations and entry into graduate nursing studies.
3. Compile a portfolio of their professional activities according to the guidelines and submit it to the Graduate Program Coordinator. The portfolio will be evaluated by the Graduate Program Coordinator and an individualized educational plan will be developed to support the student in the achievement of all baccalaureate level competencies.

*Indicates that the course is delivered in the blended-learning format.

Nurse Educator Specialty Track

RN-to-MS Fast Track Program

The *RN-to-MS Fast Track Program* provides an opportunity for associate degree and diploma-prepared nurses to obtain the Master of Science in Nursing Degree. The *RN-to-MS Fast Track Program* curriculum is characterized by flexibility and recognition of the diversity of the students who enroll.

The *RN-to-MS Fast Track Program* allows students to work toward their Bachelor of Science in Nursing and Master of Science in Nursing degrees in one integrated program. The Graduate Record Exam, generally required for admission to master's degree programs, is NOT required for admission in to the *RN-to-MS Fast Track Program*.

Six (6) graduate credits (500 Level) taken while completing the undergraduate senior year count toward both degrees *only when the RN meets the criteria for the Fast Track program, completes an application to the Graduate Nursing Program through the Graduate School, and is accepted into the RN-to-MS Fast Track Program during the first semester as a student in the RN-to-BS Program.*

Students can typically complete the *RN-to-MS Fast Track Program* in nine part-time semesters. Only course grades of B- or above can be counted toward the Master of Science in Nursing degree.

Fast track students must take courses in the M.S. program the semester after completing the requirements for 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.

Admission Process for RN-to-MS Fast Track Program

The RN student applying to WSU University as a transfer student can receive up to 65 credits transferable from associate degree colleges and a maximum of 90 credits from four year colleges or universities. WSU has articulation agreements with many area colleges for transfer credits (up to 23 credits may be approved for nursing credits).

The RN student who graduated from a nursing diploma program must take the NLN Mobility Profile II Mobility Exam as a prerequisite, which allows the students to obtain up to 23 nursing credits. All RN students must hold a current license to practice nursing in the Commonwealth of Massachusetts.

Students interested in applying to the RN-to-MS program are advised to contact the Nursing Department at 508-929-8129.

RN-to-MS Prerequisite Courses

These courses may be transferred if the student has previously taken the course (per Worcester State University transfer policy) or may be taken at WSU:

EN 101 & EN 102	English Composition I & II (*EN 101 may be waived)
MA 150	Introduction to Statistics (*pre requisite for NU 430-A: Research Seminar OR NU 525: Nursing Research in Advanced Practice) An <i>Accuplacer</i> math test (offered at WSU) may be needed prior to registering for statistics at WSU
SO 100	Introduction to Sociology
PS 101	General Psychology
BI 161 & 162	Anatomy & Physiology I & II
BI 204	Microbiology

RN-to-MS Foundational Nursing Courses

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.

NU 124	Health Informatics (3 credits)
NU 332	Transition to Professional Nursing (2 credits)
NU342A	Health Assessment (3 credits)
NU 525	Research for Evidence-Based Practice (3 credits) <i>Satisfies NU 925 Requirement in the RN-to-MS Fast Track Program</i>
NU 432	Advancing Nursing Perspectives in Chronic Illness (8 credits)
NU 551	Nursing Leadership and Administration (3 credits) <i>Satisfies NU 951 Requirement in the RN-to-MS Fast Track Program</i>
NU472	Community Nursing Capstone (8 credits)

Course descriptions for all undergraduate courses may be found in the Worcester State University undergraduate catalog.

Specialty Courses: Nurse Educator

Professional Core

NU 910a	Professional Role Development (3 credits)*
NU 920	Conceptual Foundations of Nursing (3 credits)* NU
925	Research for Evidence-Based Practice (3 credits)* NU
951	Nursing Leadership and Administration (3 credits)*

Interdisciplinary Courses

NU 930	Social Policy and the Economics of the Health Care Delivery System (3 credits) NU
940	Curriculum and Instructional Design (3 credits)*

Specialty Courses

NU 933	Nursing, Health, and the Environment (3 credits)*
NU 937	Advanced Health Assessment (3 credits)*
NU 938	Advanced Concepts in Physiology and Pathophysiology (3 credits)* NU
939	Advanced Concepts in Pharmacology (3 credits)*
NU 942	Teaching & Learning in the Age of Technology (4 credits)* NU
943	Practicum in Teaching & Learning* (5 credits)
NU 946	Biostatistics (3 credits)

*Indicates that the course is delivered in the blended-learning format.

POST-MASTER'S CERTIFICATE IN NURSING EDUCATION

Program Advisor: Dr. Stephanie Chalupka

Phone: 508-929-8680

Email: schalupka@worchester.edu

Overview

The certificate program responds to the rapidly growing need for professional nurses who have specialty education in teaching methods and curriculum. It is intended for nurses who hold a master's degree, a doctoral degree, or are matriculated in a doctoral program. The courses emphasize teaching/learning principles, curriculum and instruction, and evaluation research in higher education.

This 15-credit Post-Master's certificate in nursing education provides MS-prepared nurses with the knowledge and skills necessary to function in the role of the nurse educator. Those who complete the certificate and experiential requirements are eligible to sit for the national certification examination for nurse educators.

Admissions Requirements

Students interested in this program should contact the Graduate School at 508-929-8127. The following items are required to apply to the certificate program:

- Graduate application, including career essay, and fee (www.worcester.edu/graduate) Official undergraduate and graduate transcripts
- Two letters of recommendation
- Copy of current, unencumbered license to practice nursing

Required Courses

NU910a	Professional Role Development: Philosophical and Theoretical Foundations of Nursing Education (3 credits)*
NU940	Curriculum and Instructional Design (3 credits)*
NU942	Teaching and Learning in the Age of Technology (4 credits)*
NU943	Practicum in Teaching and Learning (5 credits)*

Please note: Students are not able to transfer in courses to complete this certificate.

*Indicates that the course is delivered in the blended-learning format.

Master of Science in Nursing: Nurse Educator Specialty Course Descriptions

NU 900: Individual Assessment (1 credit)

Bridge Program students only

The RN with a B.S. or B.A. degree in a discipline other than nursing identifies individual learning outcomes in their Master's program of study.

NU 901: Community Health and Health Policy (3 credits)

Bridge Program students only

This course analyzes the development of policy and its impact on the health of populations. Students apply epidemiology and public health science to population-based nursing practice.

NU 902: Transition to Advanced Nursing (3 credits)

Bridge Program students only

Designed for registered nurses with bachelor's degrees in areas other than nursing, provides a common knowledge base including the community perspective as a foundation for graduate study in nursing. The realities of modern nursing practice are examined.

NU 910A Professional Role Development (3 credits)

This course provides the student with an overview of the role of the nurse educator and the philosophical, theoretical, legal, ethical, and professional foundations of nursing education. Content builds on philosophical traditions and influences, nursing theory, pedagogy and andragogy. These foundations provide the basis for an examination of the development of conceptual frameworks, curricula, and the teaching-learning process.

NU 920 Conceptual Foundations in Nursing (3 credits)

This course concentrates on the philosophical basis of theory development and application. Students are introduced to the levels of theory building, concept formation and the elements of a model while considering the values and goals of nursing actions.

NU 925 Research for Evidence-Based Practice (3 credits)

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 is emphasized.

NU 930 Social Policy and the Economics of the Health Care Delivery System (3 credits) Provides the student with the knowledge necessary to comprehend the political, economic and social elements that affect health and health services. The student develops an understanding of the regulatory environment and its impact on the delivery of nursing care.

NU 933 Nursing, Health, and the Environment (3 credits)

Provides an overview of the impact of the environment on human health, emerging environmental issues, major health hazards and identification of opportunities for nurses to promote health and prevent disease. The course focuses on exposure pathways, basic prevention and control strategies. Major environmental health issues are analyzed to better understand how the environment can influence health and how the nurse can use risk communication, risk management, and preventive strategies to promote health.

NU 937 Advanced Health Assessment (3 credits)

This advanced health assessment course covers content for students in advanced practice specialties with a clinical component. Advanced health assessment skills are presented for all age groups from the newborn through older adult. Students will have the opportunity to acquire proficiency in the execution of clinical assessment skills through various teaching/learning methods such as lecture, faculty and video demonstrations, practice sessions, interactive activities, and assignments.

NU 938 Advanced Concepts in Physiology and Pathophysiology (3 credits)

This course is designed to present an orientation to disease as disordered physiology. Course focus is on pathological conditions encountered in clinical practice across the life span. Emphasis is placed on regulatory and compensatory mechanisms as they relate to commonly occurring diseases. The influence of environmental and genetic factors on the development of disease will be examined.

NU 939 Advanced Concepts in Pharmacology (3 credits)

This course focuses on the pharmacologic concepts important to nursing practice. These concepts include receptor theory, receptor-effector coupling, dose-response relationships, mechanisms of action of important classes of drugs, pharmacokinetics, pharmacodynamics, and pharmacogenomics. Course will provide the student with an understanding of basic pharmacologic principles that can be applied to new drugs as they become available in the future. Application of these principles to practice situations will also be emphasized.

NU 940 Curriculum and Instructional Design (3 credits)

This course expands upon the content learned in NU 910A and focuses on integrating theoretical foundations of nursing education into curriculum design, planning, implementation, and evaluation. The content includes a description of a variety of teaching strategies aimed at promoting critical thinking and active student learning in both the classroom and clinical settings. The student will develop beginning skills in the evaluation process including test construction and clinical evaluation tools used to assess student learning.

NU 942 Teaching and Learning in the Age of Technology (4 credits)

This course examines driving societal forces for technology integration in nursing education in the emerging knowledge era. The student is provided with the opportunity to synthesize and apply diverse classroom and clinical teaching strategies integrating technology. Using theories of education, students will discuss and evaluate how the use of technology influences teaching, learning, and evaluation strategies as well as quality improvement and patient safety in clinical practice. Students will explore a variety of technologies and their applicability to learning goals, active learning strategies, and different learning environments such as clinical sites and simulation laboratories. Students will evaluate how teacher and learner roles are influenced with the use of technology. This course combines didactic and clinical components. Class includes one credit hour of experiences working with a preceptor in the academic and clinical setting.

NU 943 Practicum in Teaching & Learning (5 credits)

This course combines didactic and clinical components to provide students with the opportunity to implement the components of the educator role under the guidance of a preceptor in an educational setting. Opportunities are provided to utilize diverse teaching and learning strategies, educational research findings, and evaluation methods with diverse students. Class includes four credit hours of experiences working with a preceptor in the academic and clinical setting.

NU 946 Biostatistics (3 credits)

This course links statistical methods to epidemiology and ultimately, to practice issues in diverse cultural populations and communities. Students draw upon knowledge acquired from the physical science to interpret and summarize statistical data in meaningful ways.

NU 951 Nursing Leadership and Administration (3 credits)

Provides the student with the necessary skills to integrate appropriate business, economic, financial, leadership and management concepts into effective strategies to effect change in community/public health agencies and healthcare organizations.

* Course descriptions for all undergraduate courses may be found in the Worcester State University undergraduate catalog.

MASTER OF SCIENCE IN HEALTH CARE ADMINISTRATION

Program Coordinator: Dr. Robert Holmes

Phone: 508-929-8343

Email: rholmes3@worchester.edu

To access the online application and requirements for admission please go to: <http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

Admissions Tests

The M.S. in Health Care Administration requires students to take either the GMAT (preferred) or GRE. Typical scores of accepted students should be near the 50th percentile in all areas.

Applicants can be accepted to this program on a rolling admissions policy. Applicants may take up to 6 credits (typically 2 classes) before being accepted into this program.

Core Courses

Required: 9-courses, 27 credit hours. Students who demonstrate equivalent academic background may be allowed to substitute electives for one or more core courses with the permission of the coordinator.

HC 900	Health Care Systems
HC 901	Management and Organizational Behavior for Health Care Professionals HC
902	Statistical Methods and Inference for Health Care Professionals
HC 903	Accounting and Budgeting for Health Care Professionals HC
904	Financial Management in the Health Care Organization HC
905	Marketing the Health Care Organization
HC 906	Health Care Management Information Systems
HC 907	Operations and Quality Management in the Health Care Organization HC
908	Legal, Regulatory and Ethical Issues in Health Care

Electives

6 credit hours, choose 2 of the following:

HC 926	Human Resources Management in the Health Care Organization HC
936	Economics of Health Care
HC 946	Epidemiology
HC 956	Politics and Policies in Health Care
HC 976	Seminar: Current Issues in Health Care

Note: Students may choose non-health care courses as electives with the prior approval of the coordinator.

Capstone

3 credit hours, choose 1 of the following HC

986	Internship in Health Care
HC 996	Health Care Action/Research Project

Total Program: 12 courses, 36 credit hours

Suggested Sequence of Courses for a Typical Student

(Please note: course schedules may vary each year.)

First Year

Fall: (6 credits)

HC 900 Health Care Systems

HC 901 Management/Organizational Behavior for Health Care Professionals

Spring: (6 credits)

HC 902 Statistical Methods and Inference for Health Care Professionals HC

906 Health Care Management Information Systems

Summer: (6 credits)

HC 903 Accounting and Budgeting for Health Care Professionals HC

904 Financial Management in the Health Care Organization

Second Year

Fall: (6 credits)

HC 905 Marketing the Health Care Organization

Elective

Spring: (6 credits)

HC 907 Operations and Quality Management in the Health Care Organization

Elective

Summer: (6 credits)

HC 908 Legal, Regulatory and Ethical Issues in Health Care

Capstone course of experience (HC 986 or 996)

Health Care Administration Courses

HC 900 Health Care Systems

Historical development of the health care system and recent trends in organization, administration and legislation

3 credits

HC 901 Management and Organizational Behavior for Health Care Professionals Management and organizational theory applied to the health care organization. Motivation and leadership, work group dynamics, communications and negotiations. Organizational, design, change and motivation.

3 credits

HC 902 Statistical Methods and Inference for Health Care Professionals

Prerequisite: HC 900, HC 901

Frequency distributions, measures of central tendency and variability, hypothesis testing, probability, correlation, regression, analysis of variance applied to typical problems encountered in a health care setting.

3 credits

HC 903 Accounting and Budgeting for Health Care Professionals

Prerequisite: HC 900, HC 901

The accounting cycle, cost analysis, cost-volume relationships, typical budgeting systems, responsibility accounting and variance analysis, cash-budgeting systems, responsibility accounting and variance analysis, cash-flow planning and the evaluation of capital projects, interpretation of financial statements.

3 credits

HC 904 Financial Management in the Health Care Organization

Prerequisites: HC 900, HC 901, HC 903

The role of finance in strategic planning for the health care organization, theory of value with special considerations for nonprofits, capital budgeting and planning, working capital and liquidity management with emphasis on reimbursement structures, pricing and other problems unique to the health-care organization.

3 credits

HC/NM 905 Marketing the Health Care Organization

Prerequisites: HGC 900, HC 901

Application of marketing tools and concepts to health care organizations. Market research and project development, pricing, publicity, and delivery systems.

3 credits

HC 906 Health Care Management Information Systems

Prerequisites: HC 900, HC 902

Analysis of information needs and flows in the health care organization. Design and implementation of information systems to support efficient operations as well as managerial planning, control, and decision making.

3 credits

HC 907 Operations and Quality Management in the Health Care Organization

Prerequisites: HC 900, HC 902

Analysis of operations in the health care organization from the perspective of continuously improving efficiency and quality. Data based decision making, quantitative models and several approaches to quality management (TQM, CQI) are examined.

3 credits

HC/NM 908 Legal, Regulatory and Ethical Issues in Health Care

Prerequisite: HC 900

An overview of the legal and regulatory framework governing health care from both the manager and the client's point of view. Legal rights and duties of patients and health-care providers, hospital liability, hospital-physician relationships, patients' rights, informed consent, privacy and confidentiality, negligence and malpractice.

3 credits

Electives: 6 credit hours, choose 2 of the following (*Please note: Students may choose other non-health care elective courses with the prior approval of the coordinator.*)

HC 926 Human Resources Management in the Health Care Organization

Prerequisites: HC 900, HC 901

Topics discussed include employee relations, employee benefits, employment discrimination, affirmative action, training and career development, assessment, liability and risk management, unions, collective bargaining and contract administration, recruitment, turnover and layoffs, diversity issues, compensation and employee benefit plans.

3 credits

HC 936 Economics of Health Care

Prerequisites: HC 900

Study of the economics of the health care industry in the United States; pricing of health care, alternative delivery systems, human resources availability, third party payments, the role of government in planning, regulating and financing health care.

3 credits

HC 946 Epidemiology

Prerequisites: HC 900, HC 902

Classic epidemics, evaluation of epidemiological principles and techniques of investigation and epidemiological analysis of selected diseases.

3 credits

HC 956 Politics and Policies in Health Care

Prerequisite: HC 900

Health care regulation and cost control by government, state vs. private regulatory systems, the nature of political power and its influence on the delivery of health services through for profit, and both public and private nonprofit agencies.

3 credits

HC 976 Seminar: Current Issues in Health Care

Prerequisites: Completion of all required Core courses or permission of the coordinator

A rotating series of seminars involving topics of current interest or in which a number of students have expressed interest. These might include Managed Care, Management of Gerontological Problems, Group Practice Management, Long-Term Care Organizations, and the like. These seminars will normally draw on the rich resources of the Worcester area for guest and visiting lecturers.

3 credits

Capstone: 3-credit hours, choose 1 of the following HC 986**Internship in Health Care**

Prerequisites: Completion of all required Core courses or permission of the coordinator

The internship in health care administration consists of at least 135 hours (3 hours of academic credit) of supervised managerial work in an approved health care setting. The internship is required of students who do not have significant employment experience in the field.

3 credits

HC 996 Health Care Action/Research Project

Prerequisites: Completion of all required Core courses

Students design and implement an Action Research paper. Students will be encouraged and expected to produce publishable quality research papers. Designed to provide students with the writing, analytic, and research tools required by professional public, healthcare, and not-for-profit managers. Emphasis given to the methods of problem identification; developing a research strategy and formal research proposal; identification of secondary sources essential to public policy and management research; review of existing literature and documents; overview of social science research methods; and, a special emphasis on improving the student's ability to write concisely, knowledgeably, and in a persuasive style.

3 credits

MASTER OF SCIENCE IN MANAGEMENT

Program Coordinator: Dr. Rodney Oudan

Phone: 508-929-8751

Email: roudan@worchester.edu

ADMISSION REQUIREMENTS:

The general admission requirements for graduate study at Worcester State University are located at:

<http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

In addition, applicants must also have the results of the Graduate Management Admission Test (GMAT) sent to the Office of Graduate and Continuing Education. (The GMAT will be waived for students meeting the following criteria—3.25 GPA and a Bachelor's degree in Business Administration from an accredited U.S. university or college.) In addition, students must prepare an essay describing their career plans and interest in graduate study. Three letters of recommendation from former professors or supervisors are required. Admission to this program is a rolling admissions process and applicants who are graduate eligible can take up to 6 credits prior to being accepted into the program.

REQUIREMENTS OF THE PROGRAM:

The Masters of Science in Management Degree requires the completion of thirty-six (36) credit hours of graduate courses. Students with a B.S. or B.A. from an accredited U.S. university or college and a 3.25 G.P.A. may reduce the M.S. in Management program from 36 to 30 credits. A maximum of two of the following courses can be omitted—BA910 Information Technology, BA912 Marketing, BA914 Organizational Behavior, or BA915 Corporate Finance. See program coordinator for details. The curriculum includes prerequisites, eight core courses, four required courses in each concentration, and electives. Prerequisites may be completed at the undergraduate level. A minimum grade of a B in prior courses is required for all waived and transferred courses. All waivers require the approval of the program committee and coordinator.

Worcester State University has instituted a 4+1 for our current undergraduate students. Please contact the program coordinator for details.

The following prerequisites apply to all students entering the program: Business

Law

Computer Applications

Statistics Microeconomics

Macroeconomics

Communications

College Mathematics (College Algebra or higher)

In addition to the above prerequisites, accounting students must also complete the additional prerequisites:

Two semesters of undergraduate accounting and Intermediate

Accounting I and II

Core Courses**Masters of Science in Management Core Courses (all students):**

- BA910 Information Technology¹
- BA911 Accounting for Managerial Decisions²
- BA912 Marketing¹
- BA913 Managerial Economics
- BA914 Organizational Behavior¹
- BA915 Corporate Finance¹
- BA916 Quantitative Analysis and Research Methods
- BA990 Integrative Business Strategy

Accounting Concentration

- Accounting Concentration Required Courses: AC910
Taxation of Individuals and Proprietors AC911 Taxation
of Corporations and Shareholders AC912 Advanced
Accounting Theory
AC913 Advanced Auditing Theory and Practice
AC923 Advanced Government and Nonprofit Accounting³

Accounting Concentration Elective Courses: AC920

- Advanced Problems in Accounting AC921
- Advanced Cost Accounting
- AC922 International Accounting
- AC930 Advanced Financial Theory
- AC932 International Finance and Economics
- AC950 Seminar Topics in Taxation
- AC951 Seminar in Issues in Accounting Ethics

Managerial Leadership Concentration

- Managerial Leadership Concentration Required Courses: BA960
Leadership Theory and Skills
BA961 Organizational Development and Change BA962
Ethics and Social Responsibility of Leadership BA963
Action Learning Professional Leadership Project

Managerial Leadership Concentration Elective Courses:

- BA970 Seminar in Leadership
- BA971 Entrepreneurship and Small Business Management
- BA972 Motivation and Leadership of Teams
- BA973 Leading in the International Business Environment
- BA974 Negotiations
- BA975 Leadership Perspectives of Human Resources and the Legal Environment BA976
Selected Topics in Leadership

¹Waived for students with 2 or more undergraduate courses in the field

²Waived for students in the accounting concentration

³Replaces BA911 for students in the accounting concentration

Graduate Management Course Descriptions

Core Courses

BA 910 Information Technology

This course takes a managerial perspective toward the use of information technology (IT) and will analyze how organizations use IT to improve organization efficiency and effectiveness and to achieve a competitive advantage. Case studies will be employed to understand how organizations have implemented IT to integrate process across multiple business functions and to differentiate their organization from the competition.

3 credits

BA 911 Accounting for Managerial Decisions

This course focuses on the analysis of financial statements, benchmarking for liquidity, solvency, efficiency, profitability, analysis of risk and leverage, financial planning and control, cost analysis including activity based costing, budgeting systems, and an introduction to capital budgeting.

3 credits

BA 912 Marketing

This course will provide students with an in-depth understanding of consumer and business marketing. Students will develop an understanding of and apply marketing theories, models and techniques through reading and analysis of current journal articles and cases. Particular focus will be placed on developing managerial and decision-making skills.

3 credits

BA 913 Managerial Economics

This course will present those aspects of economics theory and analysis that are most relevant to students in business administration. The topics covered include demand analysis, estimation and forecasting, production theory, cost analysis and estimation, and pricing theory and application.

3 credits

BA 914 Organizational Behavior

This course introduces concepts, theories and current research in the effective management of organizations employing the open-systems model and contingency approach as an overall framework. Individual differences, teamwork, organizational structure and processes are all discussed. The role of perception and motivation in the behavior of the individual is addressed. Cases, workshops and readings are integrated within the course.

3 credits

BA 915 Corporate Finance

This course will review theories and cases in value maximization as the goal of a firm. The specific topics covered include EVA and MVA approaches, corporate governance and agency issues, valuation of corporate securities, cost of capital, risk analysis and management, uses and valuation of derivatives, advanced issues in capital budgeting including embedded options, capital structure, dividend policy, lease analysis, mergers, acquisitions and bankruptcy, and international finance.

3 credits

BA 916 Quantitative Analysis and Research Methods

This course will explore both quantitative and qualitative research methods. Professional business statistics will be covered including multiple regression, factor, discriminant, and cluster analysis. Fundamental social science research methods such as exploratory, field, experimental, and survey research will be reviewed. Students will be expected to present a research plan including problem definition, research questions, data collection methods and data analysis tools.

3 credits

BA 990 Integrative Business Strategy

This course will expose students to the concepts of strategic management and processes and provide them with the opportunity to integrate knowledge and skills developed in previous courses. The principle method for achieving these objectives is the in-depth oral and written analysis of complex, multiple problem cases by both individual students and teams.

3 credits

Accounting Courses:**AC 910 Taxation of Individuals and Proprietors**

This course will provide a detailed analysis of federal laws, regulations, and other authorities affecting the taxation of individuals. The course will be structured around tax law research with some consideration to forms and computerized tax packages.

3 credits

AC 911 Taxation of Corporations and Shareholders

This course will focus on analyzing federal and state laws affecting corporations and shareholders, including laws governing corporate formation, liquidating and non-liquidating distributions, reorganizations, taxes on corporation accumulations, tax planning for compliance and minimization. 3 credits

AC 912 Advanced Accounting Theory

This course will cover advanced topics in reporting for creditors, investors, regulatory agencies and other stakeholders, and the conceptual development and application of reporting alternatives. Specific emphasis will be placed on the application of accounting theory to current topics in financial reporting.

3 credits

AC 913 Advanced Auditing Theory and Practice

The course will provide students with an in-depth understanding of auditing standards, auditing electronic systems, auditor's reports, and statistical samples in auditing, and SEC regulations. Case studies will be used to allow students to apply their knowledge in actual business situations.

3 credits

AC 920 Advanced Problems in Accounting

This course will study general and specialized accounting problems abased on the subject matter contained in C.P.A. examinations.

3 credits

AC 921 Advanced Cost Accounting

This course will cover advanced topics in cost and managerial accounting systems including activity based costing and activity based management, capital budgeting, control systems, linear programming techniques, transfer pricing, and cost and variance analysis.

3 credits

AC 922 International Accounting

The course focuses on the preparation of financial and accounting statements for multinational firms, foreign currency exchange adjustments, comparative accounting principles and disclosures, and audit reports as well as the interpretation of foreign financial statements.

3 credits

AC 923 Advanced Government and Nonprofit Accounting

This course will address the analysis of measurement and reporting problems unique to nonprofit organizations and federal, state and local governments including the comparison of FASB and GASB standards with reference to other authoritative bodies. The course will provide an overview of fund accounting, budgetary systems, budgetary control and the auditing of government and nonprofit entities.
3 credits

AC 930 Advanced Financial Theory

This course will allow students to study emerging topics in Finance with an emphasis on derivative instruments, risk management, financial engineering and hedges, issues in capital structure, mergers and acquisitions, real options in capital budgeting, and the impact of corporate governance structures on firm value.
3 credits

AC 932 International Finance and Economics

This course will cover foreign exchange markets, rates and risks, reasons for international trade, purchasing power parity, interest rate parity, forward and future spot rates, international capital markets, financial instruments of international banking and trade, capital budgeting in the international context, and the impact of political risks.
3 credits

AC 950 Seminar Topics in Taxation

This is a research based course dealing with contemporary and emerging topics in taxation resulting from changes in tax policies, legislation and regulation.
3 credits

AC 951 Seminar in Issues in Accounting Ethics

The course is designed to provide students with an opportunity to identify, discuss, and analyze the many ethical issues faced by practicing accountants. Approaches for resolving ethical dilemmas and models for analyzing ethical issues will be discussed to assist students in making well-reasoned ethical decisions in their professional lives.
3 credits

Managerial Leadership courses:**BA 960 Leadership Theory and Skills**

This course explores the past, present and future of leadership and covers a variety of leadership paradigms and approaches. Attention is focused on cultural dynamics and diversity, including national, global and ethical issues. Emphasis is placed on how leaders emerge, the ever changing nature of a leader's skills portfolio, and how leadership roles are changing. Leadership of individuals, small teams, organizations, as well as leadership in a virtual world are discussed. Assignments include case analyses, individual and group projects and presentations.

3 credits

BA 961 Organizational Development and Change

This course focuses on improving organizational effectiveness and leading the change processes. It draws upon a variety of behavioral science approaches to planned development and change. Regaining control after unplanned change is also discussed. Using an experiential approach, Organizational Development is designed to improve individual, team and organizational performance through the design, implementation and evaluation of system-wide changes.

3 credits

BA 962 Ethics and Social Responsibility of Leadership

This course examines ethical questions in the conduct of Leadership. It considers the legal mandates, ethical and social responsibilities of leaders to all stakeholders. The influence of external and internal forces of the organizational environment will be explored.

3 credits

BA 963 Action Learning Professional Leadership Project

This course serves as a capstone in the Leadership concentration. Individuals will select a specific hands-on leadership project within a profit or not-for-profit organization. They will write and orally deliver a proposal to the class and subsequently to the host organization. The project, once implemented and completed, will incorporate skills, theories and concepts learned throughout the program into real-world applications.

3 credits

BA 970 Seminar in Leadership

This course complements the theoretical components offered throughout the MS Program by providing practical exposure to current management issues. This is accomplished by bringing to class business executives and leaders who discuss their most immediate and longer term management challenges. The course also examines several current issues facing senior executives.

3 credits

BA 971 Entrepreneurship and Small Business Management

This course explores both entrepreneurial venture and small business start-up processes, plans and strategies. Students will be required to establish a business and develop a start-up proposal and strategic plan for a successful operation. The course is interdisciplinary and relies heavily on experiential exercises and simulation.

3 credits

BA 972 Motivation and Leadership of Teams

This course is designed to provide a leadership perspective on the management and work effectiveness of teams and groups. Theories of motivation and group dynamics will be discussed in order to develop a greater understanding of the interplay between task, individuals, teams/groups and leadership. Your own personal behavior in teams and your team management skills will also be examined. The course is highly experiential and involves working in class teams on graded and non-graded assignments. These assignments include team presentations and written and oral analysis. 3 credits

BA 973 Leading in the International Business Environment

This course is an in-depth analysis of all components of international business management. Major emphasis is placed upon multi-national business operations including foreign profit center, national and cultural differences, and comparative management systems. These are studied in terms of their influence on all areas of international trade.

3 credits

BA 974 Negotiations

This course focuses on the essential knowledge and skills that effective negotiators need to deal appropriately with the problems and possibilities of effective negotiations, conflict management, and power and influence at work and other settings. Through active participation in negotiation role-plays, students develop negotiation skills; through the use of self-administered instruments, students learn about their own negotiating styles; and through lectures and readings, students learn about the structures and dynamics of negotiation, conflict, and power in organizations.

3 credits

BA 975 Leadership Perspectives of Human Resources and the Legal Environment

This course examines how managers can utilize modern human resource practices in order to improve company performance and efficiencies. Topics include staffing for quality, outsourcing, use of core and contingent workforce, managing workforce commitment and performance, legal issues, managing careers, and reward systems. A case study approach is used.

3 credits

BA 976 Selected Topics in Leadership

This course is an in-depth study of a selected topic, issues, problem or trend in management. The specific subject matter is not offered as an existing regular course or deserves more time-emphasis than is possible in a regular course. When offered, topics and prerequisites are announced in the course schedule book.

3 credits

MASTER OF SCIENCE IN NONPROFIT MANAGEMENT

**Program Coordinator: Dr. Shiko Gathuo Phone:
508-929-8892**

Email: agathuo@worchester.edu

ADMISSION REQUIREMENTS:

For general admission requirements for graduate study please go to:
<http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

In addition to the general requirements, applicants to the Nonprofit Management program are selected on the basis of established experience in the nonprofit and public sectors as well as their career goals as articulated in their application essays.

The program has the following convenient features:

- A fulltime/part-time option
- An evening schedule to suit working professionals
- A rolling admission that allows students to start their studies in any semester
- A 12-credit transfer allowance from other accredited graduate institutions
- An opportunity to register for as many as 6 credits before matriculation
- Flexibility in choice of electives
- An opportunity to intern in a nonprofit organization
- Faculty of academics and nonprofit and public sector practitioners

PROGRAM REQUIREMENTS :

Thirty-six (36) graduate credits broken down as follows:

- Twenty-two (22) core credits
- Six (6) elective credits
- Eight (8) thesis credits

Core Courses

NM 901 The Nonprofit World: NGOs, the State & Civil Society (3 credits) NM
934 Ethics and Management of Human Resources (3 credits)
NM 942 Organizational Theory (3 credits)
NM 945 Financial Management (3 credits)
NM 949 Strategic Leadership and Planning (3 credits) NM
951 Grant Writing (4 credits)
NM 993 Marketing & Resource Development (3 credits)

Elective Courses

Students may choose any two electives offered in the program. They may also choose to do an Independent Study and/or an internship. The Independent Study and the Internship count as elective credits. Only one Independent Study may be taken during the student's program of study. All electives, the Independent Study, and the Internship are three (3) credits each.

Thesis Project

NM 990: Action Research (3 credits), NM 980: Thesis I (1 credit), and NM 981: Thesis II (4 credits) constitute the Nonprofit Management program's master's thesis project. Students may take Action Research after completing five (5) core courses. Thesis I must be taken concurrently with Action Research. Thesis II is taken after the successful completion of Action Research and Thesis I.

NON-PROFIT MANAGEMENT COURSE DESCRIPTIONS

NM 901: The Nonprofit World: NGOs, the State & Civil Society (Core)

This course will examine nonprofit organizations and international nongovernmental organizations at a macro level, that is, the civil society. Current trends in the nonprofit sector such as funding, increased pressure to perform, increased government and private citizen scrutiny of nonprofits, and increased demand for nonprofit services will be explored within the framework of outer environments including the global and technological environment; the social-cultural environment; the political environment; and the economic environment. Students will keep abreast of the nonprofit sector while developing an appreciation of the outer forces that impact it, the collective power of civil society, and the vulnerabilities of the sector. Close attention will be paid to the relationship between the state and the nonprofit sector.

3 credits

NM 934: Ethics and Management of Human Resources (Core)

Leaders and managers of nonprofit and public organizations face moral and ethical dilemmas in dealing with their publics (clients, staff, volunteers, donors, government agencies, board of directors, collaborating partners, the community, etc.). These dilemmas are particularly pronounced in those organizations because the organizations operate under strict ethical guidelines, are accountable to the general public, and have to deal with many different publics. This course will explore the ways in which leaders resolve these ethical dilemmas while sustaining their organizations. Additionally, this course will explore the human resources management functions including planning, recruitment & selection, motivation, compensation & employee services, development, labor relations, evaluation, and separation, as well as compliance with state and federal government regulations.

3 credits

NM 942: Organization Theory (Core)

Organizational theory and development strategies considered. Formal and informal aspects organizations, authority structures, specialization and integration of functions, and the role of professional managers.

3 credits

NM 945: Financial Management (Core)

Theoretical and practical approaches to the allocation and control of financial resources in nonprofit settings. Conventional and nonconventional budgeting techniques, cost/benefit analysis and preparation of financial statements.

3 credits

NM 949: Strategic Leadership and Planning (Core)

This course will critically examine the revolutionary changes emerging in the globalized economy through the exploration of the strategic planning process, and discuss the various strategic decisions and the leadership skills necessary to formulate and implement the strategic plan successfully.

3 credits

NM 951: Grant Writing (Core)

This “how to” course will a hands-on experience that will cover the skills and strategies essential to the full range of the grant writing process, from needs assessment and identification of potential funding sources through proposal writing and submittal, to planning for evaluation and continuation. *4 credits*

NM 993 Marketing and Resource Development (Core)

This course will focus on three major functions that nonprofits must perform in order to survive and thrive: fundraising, marketing, and the development of resources. The course will cover the role of institutional planning in the setting fundraising goals, creating the annual development plan, preparing for and implementing capital campaigns and planned gift programs. This course will also

examine the development and management of volunteers, boards of directors, and individual donors in nonprofit organizations. The course will also examine how marketing concepts are applied to nonprofit and public organizations. Marketing research, product development, pricing, advertising, publicity, and market control will be studied.

3 credits

NM 902 Internship (Elective)

With the help of an internship coordinator, local students who do not have nonprofit experience and all international students will identify suitable nonprofit organizations in which to do an internship. The internship must provide valuable, career-related experience and learning goals. The goals of the internship will be established in conjunction with the coordinator and the host organization. These goals should take into account the student's career interest, for example, development, fundraising and grant-writing, human resources management, financial management etc. Students must complete a minimum of 100 hours in the organization and write a summary of the internship experience.

3 credits

NM /HC 905 Marketing the Health Care Organization (Elective)

Application of marketing tools and concepts to health care organizations. Market research and project development, pricing, publicity, and delivery systems.

3 credits

NM /HC 908 Legal, Regulatory and Ethical Issues in Health Care (Elective)

Prerequisite: HC 900

An overview of the legal and regulatory framework governing health care from both the manager and the client's point of view. Legal rights and duties of patients and health-care providers, hospital liability, hospital-physician relationships, patients' rights, informed consent, privacy and confidentiality, negligence and malpractice.

3 credits

NM 911 Global Health Issues and Human Rights (Elective)

Understanding health and human right issues from a global perspective of the economic political, social and cultural forces which impact on health and health services.

3 credits

NM 930 Communications for Effective Management (Elective)

This course stresses the behavioral aspects of organizational communication, such as impact of power, persuasion, values, status, and role of the communication process; barriers to communication; conflict management; and, group communication. Examination of the principles and practices of effective communication, focusing on oral and written communication styles.

3 credits

NM 931 Seminar in Critical Issues for Nonprofit Management (Elective)

Discussion of cutting-edge issues in nonprofit management and the larger surrounding society, including reinvention, outsourcing, total quality (TQM), technological advances, and global positioning. The seminar will provide opportunities for students to explore critical issues with visiting field practitioners and a variety of regular faculty members. The course is designed to allow students to stay current in the field of nonprofit management.

3 credits

NM 932 Practices in Community Organization (Elective)

Studies the principles and methods of effective community organization as a process of helping people and communities to help themselves. Range of theoretical and pragmatic approaches considered.

3 credits

NM 940 Leadership Skills and Group Dynamics (Elective)

Explores the nature and principles of effective group and organizational leadership. participate in a group which studies its own leadership process. Examples will be taken from therapy groups, business/organizational situations, classrooms, and other case studies. Emphasis upon the components of effective leadership and followership in small groups and organizations. Group formation, group roles, group stages, and group conflicts are studied.

3 credits

NM 946 Seminar in Program Analysis and Evaluation (Elective)

Explores philosophical issues, politics, and specific evaluation instruments involved in effective program analysis upon utilization of computer systems.

3 credits

NM 954 Ethics, Professionalism, & Leadership (Elective)

In-depth exploration of the fundamental and moral issues that pose dilemmas for leaders and managers of various public, nonprofit and health care organizations. Course provides comprehensive discussion of the meaning of professionalism and the role of leadership under difficult circumstances and/or settings. Topics include: organizational mission, funding sources, clients or constituencies, board of directors, volunteers and staff.

3 credits

NM 944 Politics and Public Policy (Elective)

An explication of the nature of political power and the influence of power upon the delivery of various types of nonprofit, public, health care and human services.

3 credits

NM 948 Advanced Staff Development (Elective)

Examines the management and implementation of staff development and training programs in organizations. Explores basic concepts and theories of management styles relative to the learning styles of both employee and supervisor. Participants assess their management styles by means of self-assessment instruments and simulations.

3 credits

NM 950 Unions and the Public Sector (Elective)

An intensive examination of key collective bargaining topics. Topics include grievance-arbitration processes, productivity bargaining, and impasse resolutions in the public sector.

3 credits

NM 955 Board Relationships & Volunteer Management (Elective)

An informative and critical look at the role of support volunteers as well as the role of volunteer boards of directors in the governance of nonprofit organizations. Relationships between the board and professional managers and program staff are analyzed as are the relationships between paid staff and volunteer members. Methods of recruiting, developing, motivating, and training, volunteers for all roles are explored.

3 credits

NM 960 Seminar in Critical Issues for Health Care Management (Elective)

This seminar examines important topical issues in health services management and policy. It surveys selected current issues in health care management and policy at the local, regional, national, and international levels. Selected topics may include: physician payment reform, uncompensated medical care, quality of medical care, confidentiality and legal implications. Topics will change to remain timely and relevant.

3 credits

NM 961 Health Care Law (Elective)

Exploration of the relationship between law and health care. Legal rights and duties of patients and providers of health services are discussed. Topics include: hospital liability, hospital-physician relationships, patient rights and informed consent, privacy and confidentiality, negligence, and malpractice.

3 credits

NM 962 Management of Gerontological Programs (Elective)

Emphasizes administration of health care services for the aged, along with the issues that affect these services. Examines the structure and functions of publicly and privately funded programs and organizations providing health services to the aged. Acquaints students with the planning process and resources available for meeting the needs of the elderly. Provides broad knowledge of health care services for the aged and their implementation.

3 credits

NM 963 Nonprofit Law (Elective)

Course provides a comprehensive overview of the legal, regulatory and policy issues governing nonprofit organizations today. Includes discussion of legal principles and research methods challenging contemporary nonprofit organizations. Specific procedures such as steps for incorporation, reporting and maintaining tax-exempt status, and other legal requirements will also be addressed.

3 credits

NM 970 Issues in Clinical Case Management (Elective)

Introduction to managerial, clinical and ethical issues in effective case management in the human services. Various models of case management thoroughly explored.

3 credits

NM 971 Issues in Residential and Long-term Care (Elective)

Theory, philosophy and behavioral aspects of administration and management of residential and long-term care facilities. Role of administrators relative to management, community activities, public relations, ethical practices, licensure, as well as state and federal requirements.

3 credits

NM 972: Special Topics (Variable credits)

This course is an in depth exploration of contemporary topics/issues in the field of nonprofit management.

NM 992 Fundraising, Development and Community Relations (Elective)

Exploration of fundraising, resource development, and community relations as an integrated approach to organizational development. Course covers state-of-the-art fundraising, board development, and public relations techniques. Topics include: identification and cultivation of benefactors; prospecting; personal and telephone solicitations; direct mail; annual fund; capital campaigns; planned giving; utilization of volunteers and staff; communications with publics; internal and external public relations programs.

3 credits

NM 994 Assigned Readings (Independent Study - Elective)

Independent study under faculty supervision. Student will define area of advanced study in an area of nonprofit, health care, public agency, human service or human resource training and development. *3 credits*

NM 995 Accounting and Budgeting for Public Management (Elective)

Introduction to accounting and budgeting concepts as applied to management in federal, state, or local public agencies. Topics include control limit theorem, confidence intervals, probability values, analysis of variance, simple and multiple regression and partial and multiple correlations.

3 credits

NM 996 Public Law (Elective)

Legal framework and constraints within which nonprofit administrators operate. Discussion of rights and responsibilities, and discretionary limits of managerial decision-making.

3 credits

NM 998 Research (Elective)

Supervised research in nonprofit, healthcare, human service, public agency, or human resource training and development. Students will learn a variety of research tools specifically relevant to research in nonprofit organizations.

3 credits

MASTER OF SCIENCE IN SPEECH-LANGUAGE PATHOLOGY

Program Coordinator: Dr. Sharon Antonucci Phone: 508-929-8567

Email: santonucci@worcester.edu

Worcester State University offers a graduate program leading to a Master's Degree in Speech-Language Pathology. This program is designed to provide a high caliber academic and clinical program for the preparation of speech-language pathologists. The program prepares students for positions in public schools, skilled nursing facilities, rehabilitation centers, hospitals, speech and hearing clinics, special-care facilities, and private practice. The graduate program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association and approved by the Massachusetts Department of Elementary and Secondary Education. Application forms may be obtained online at www.worcester.edu. Admission is considered for the fall semester only.

A monthly information session is held between August – May lead by the graduate program coordinator to answer any questions about the program or prerequisites. Due to the large number of requests, we are not able to arrange individual meetings with prospective graduate students outside of these monthly sessions. You are welcome to bring your transcripts to the information session for review by the graduate program coordinator.

APPLICATION DEADLINE IS February 1 for the fall semester.

I. Admission Requirements:

- A. Applicants must possess a baccalaureate degree from an accredited college or university.
 - B. Candidates for admission are required to submit a completed application which is available online. Requirements and procedures for admission to graduate studies are specified on the application form. The applicant must comply with these requirements and procedures.
 - C. Candidates must submit official transcripts from all undergraduate programs that were part of the bachelor's degree and all programs where any prerequisite courses were taken, including Worcester State University.
 - D. Candidates applying for admission must have taken or currently be enrolled in the following prerequisite courses at the time of application for the master's degree program:
 - Three (3) credit hours in biological sciences*
 - Three (3) credit hours in physical science*
 - Three (3) credit hours in mathematics*
 - Three (3) credit hours in statistics*
 - Six (6) credit hours in the behavioral and/or social sciences* (a course in Developmental Psychology / Child Growth and Development must be included)
 - Twelve (12) credit hours in basic human communication processes that include: anatomy of the speech & hearing mechanism, phonetics, normal development of speech and language, speech science, and hearing science**
 - Biological Science must be human and/or animal biology. Physical Science may be either physics or chemistry. Courses covering physics and/or chemistry but not explicitly named as such may be used to fulfill the physical science requirement subject to graduate coordinator approval.
- * 12 of the required 18 credits must be completed at the time of application, and if accepted to the program the remaining credits must be completed by August 31. These courses must have been completed within the past 15 years.

** The majority (>50%) of coursework in basic human communication must be completed at the time of application, and if accepted to the program the remaining credits must be completed by May 31. These courses must have been complete within the past 7 years.

- E. Applicants must submit scores from the Graduate Records Examination (GRE) and the TOEFL (if the student's academic background is not in English).

Students completing prerequisites at the time of application must provide evidence of enrollment. Prerequisites may be taken at WSU in the evening as a non-matriculated student or as a day student. Please contact the Division of Graduate and Continuing Education for enrollment information (www.worcester.edu/DGCE). Day students must complete an "undergraduate non-degree" application. Please contact the undergraduate admissions office for additional details at 508-929-8040.

II. General Requirements for Program Completion:

- A. The minimum requirement for a master's degree in speech-language pathology is fifty-five (55) semester hours of credit.
- B. A maximum of six (6) graduate credits of "B" or above taken within two (2) years of the term of admission, at a CAA accredited institution, may be accepted toward the graduate degree.
- C. Courses are taught in the afternoon, late afternoon and evening. A maximum load is four courses per semester and takes at least two full years including summers to complete. A three course per semester load takes two and one-half years to complete. A two course per semester program would take at least three and one-half years. A grade point average of 3.0 is required to remain in the program and to earn the degree. Courses with a grade of C+ or below must be repeated.
- D. All work for the degree must be completed within a period of six years.
- E. The Dean of Graduate Studies reserves the right to periodically review the performance of graduate students in accordance with the academic standards of the Graduate Program and of Worcester State University.

III. Curriculum Requirements for a Master of Science Degree in Speech-Language Pathology

A. Course Requirements:

CD 901	Introduction to Graduate and Clinical Skills (summer) 2 credits	CD
920	Articulation & Phonological Disorders (fall) 3 credits	
CD 921	Language Disorders in Children (fall) 3 credits	CD
922	Language Disorders in Adults (spring) 3 credits	CD
923	Fluency Disorders (fall) 3 credits	
CD 924	Voice Disorders (summer) 3 credits	CD
925	Motor Speech Disorders (fall) 3 credits	
CD 926	Reading and Writing Disabilities (summer) 2 credits	CD
927	Audiology (fall) 3 credits	
CD 928	Aural Rehabilitation (spring) 3 credits	
CD 929	Dysphagia (spring) 3 credits	
CD 940	Evaluation & Diagnosis in Speech-Language Pathology (spring) 3 credits	CD
946	Organization of S/L Programs in Schools (summer) 1 credit	

- CD 947 Augmentative/Alternative Communication (summer) 1 credit CD
 950 Cognitive Aspects of Communication (summer) 2 credits
 CD 980 Research in Communication Sciences & Disorders (spring) 3 credits CD
 987 Selected Topics in Communication Sciences & Disorders – take two
 topics for one credit each (summer or spring) 2 credits
 CD 990 Speech-Language-Hearing Practicum: College Clinic (spring, summer, fall) (A
 minimum of 2 semesters is required in the WSU Speech-Language- Hearing
 Clinic) 3 credits each time
 CD 991 Speech-Language-Hearing Practicum: Externships. (A minimum of 2
 semesters is required in externships) 3 credits each time

B. Clinical Clock Hours:

In addition to academic coursework, students are required to complete 25 hours of observation of clinical work and 375 live hours of participation in diagnostic/therapeutic work in three distinctly different clinical settings. Observation hours and 50 of the live hours may be transferred from the undergraduate level.

C. Written Comprehensive Examination:

Students will be expected to submit a passing score from the NESPA examination in Speech-Language Pathology and complete a departmental comprehensive examination.

Communication Disorders Courses

CD 910 Speech/Language Development, Differences and Disorders

Students gain an in-depth understanding of speech/language development, knowledge of cultural differences and the disorders of speech/language.

3 credits

CD 920 Articulation and Phonological Disorders

Review of the anatomy/physiology of the articulatory mechanism. Study of etiology, diagnosis and treatment of developmental and organic disorders.

3 credits

CD 921 Language Disorders in Children

Prevention, etiology, characteristics, evaluation, intervention in children's language differences and disorders. Emphasis on spoken language with introduction to written language.

3 credits

CD 922 Language Disorders in Adults

Study of the neurological basis, etiology, characteristics, prevention, evaluation and intervention of acquired language disorders in adults.

3 credits

CD 923 Fluency Disorders

Etiology and characteristics of fluency disorders. In addition, the prevention, evaluation and intervention for people who have fluency disorders.

3 credits

CD 924 Voice Disorders

Study of etiology, characteristics, prevention, evaluation, and intervention of voice and resonance disorders in children and adults.

3 credits

CD 925 Motor Speech Disorders

Study of neurological basis, etiology, characteristics, prevention, evaluation, and intervention of motor speech disorders in children and adults.

3 credits

CD 926 Reading and Writing Disabilities

Reading and writing development/disorders across the lifespan. Topics: Integration of theories, research, practice, etiology, characteristics, prevention, assessment, and intervention.

2 credits.

CD 927 Audiology

A speech-language pathology focus course about prevention etiology, characteristics, evaluation/interpretation and social aspects of hearing loss across diverse populations.

3 credits

CD 928 Aural Rehabilitation

Prerequisite: CD 927

Evaluation and management of hearing related communication difficulties across the lifespan, including amplification, speech-perception-and communication training, speech-language therapy, and counseling.

3 credits

CD 929 Dysphagia

Study of the anatomy/physiology of the swallowing mechanism, the etiology of its disorders, and the assessment and management of patients with various diseases/injuries causing these disorders. 3 credits

CD 940 Evaluation and Diagnosis in Speech-Language Pathology

Prerequisites: CD 920, CD 921 or CD 922

Intensive study of theory, psychometrics, concepts of assessment, and diagnosis. Focuses on scientific method. Includes planning, interpretation, report writing, recommendations.

3 credits

CD 946 Organization of Speech Language Programs in Schools

Prerequisites: CD 920, CD 921

Issues related to SLP's in schools. Includes state and federal regulations, case selection, referral process, scheduling, collaboration, inclusion, support personnel.

1 credit.

CD 947 Augmentative/Alternative Communication

1 credit.

CD 950 Cognitive Aspects of Communication

Etiology, characteristics, prevention, evaluation, intervention of developmental and acquired cognitive disorders related to communication sciences and disorders across the lifespan.

2 credits.

CD 970 Independent Study in Communication Sciences and Disorders

Prerequisite: Accepted into the Graduate Speech-Language Pathology Program

Students may elect to take an independent study in course content, practicum experience, or independent research.

1-3 credits

CD 980 Research in Communication Sciences and Disorders

Prerequisite: Completion of a minimum of 18 graduate credits in speech-language pathology. Principals of research in communication sciences and disorders including ethics, methodology, design, statistics, evaluation and research writing.

3 credits

CD 987 Special Topics in Communication Sciences and Disorders

Prerequisites: CD 920, CD 921, CD 922

In-depth studies of contemporary issues in communication sciences and disorders. 1-3 credits

CD 990 Speech-Language-Hearing Practicum: College Clinic

Prerequisites: CD 920, CD 921 or CD 922

Experience in evaluation and intervention of speech, language, and hearing disorders in the college clinic with direct supervision.

3 credits

CD 991 Speech-Language-Hearing Practicum: Externships

Prerequisites: CD 920, CD 921, CD 922, CD 927, CD 940, CD 946, CD 990

Experience in evaluation and intervention of speech, language, and hearing disorders in externships with direct supervision.

3 credits

CD 993 Clinical Practicum in Audiology

Prerequisite: CD 927

Supervised clinical experience in the evaluation of the hearing impaired. (Enrollment is limited and requires written permission of the department.)

2-3 credits

CD 997 Thesis Research in Communication Disorders

Prerequisite: CD 980

Original research in Communication Disorders under the supervision of a member of the faculty, and an acceptable thesis.

3 credits per semester for two semesters.

POST-BACCALAUREATE CERTIFICATE PROGRAM FOR INITIAL TEACHER LICENSE IN ENGLISH AS A SECOND LANGUAGE (PRE-K – 6 AND 5 – 12)

Graduate Program Coordinator: Dr. Margarita Perez

Phone: 508-929-8609

Email: mperez@worchester.edu

Candidates for this program must hold a bachelor's degree from an accredited institution with a cumulative GPA of 2.7 or higher, and meet the admissions requirements below.

Admission Requirements:

The following is to be submitted to the Graduate School:

- Completed graduate application, including fee and essay
- Official transcripts (Transcripts from outside the United States must be officially translated and evaluated.)
- Two current letters of recommendation
- Passing scores on the Communication & Literacy Skills Massachusetts Test for Educator Licensure (MTEL)
- Results of a language proficiency assessment, if applicable

In addition, candidates are also required to demonstrate evidence of:

- A course in human, child, or adolescent development at the undergraduate level.
- Documentation of fluency at an intermediate level in a language other than English-- from a college or university or foreign secondary school; through the successful completion of foreign language courses deemed appropriate by the foreign language program in the Languages and Literature Department; or through the proficiency level determined by the University's language proficiency assessment.
- A passing score report from the ELL or ESL content MTEL – *required prior to beginning the practicum*

Core Requirements (32):

CD 905	Sound System of English (3)
CD 906	Structure of English (3)
CD 910	Normal Development of Speech and Language (3)
ED 978	Contemporary Issues in the Teaching of Bilingual and ELLs (3) ES
928	Second Language Acquisition (3)
ES 914	Methods & Materials of Teaching English Language Skills to the ELL (3) ED
986	Literacy Instruction for the English Language Learner (3)
ED 955	Assessing English Language Learners (3)
ES 930	Sheltered Instruction & Assessment in Immersion Classroom (3)
ES 940	Practicum & Seminar in the Teaching ESL Pre-K-6 (5) or ES
945	Practicum & Seminar in the Teaching ESL 5-12 (5)

Total Minimum Program Credits: 32

POST-BACCALAUREATE CERTIFICATE PROGRAM FOR INITIAL TEACHER LICENSE IN MIDDLE OR SECONDARY SCHOOL EDUCATION

Program Coordinator: Dr. Raynold Lewis

Phone: 508-929-8883

Email: rlewis1@worchester.edu

This program is designed for individuals seeking an Initial License in middle school education (5-8) or secondary school education (8-12) in one of the following content areas only:

- Biology
- Chemistry Earth
- Science English
- General Science (5-8)
- History
- Mathematics
- Political Science/Political Philosophy
- Spanish (5-12)

Admissions Requirements

One of the requirements for an initial license is demonstrated knowledge in the content area. Thus, candidates for this program must hold a bachelor's degree from a regionally accredited school with a minimum grade point average (GPA) of 2.7 in the chosen content area. A preliminary license in the desired content area or a passing score on the Massachusetts Tests for Educator Licensure (MTEL) in the content area is also acceptable for admission to the program if a candidate holds a bachelor's degree in the Arts and Sciences or an inter-disciplinary major.

In addition to the content area MTEL, candidates for this program must also pass the Communication and Literacy Skills test.

An undergraduate or graduate course in Adolescent Development/Psychology is a pre-requisite for stage 3 of the program; or CLEP exam in Human Growth & Development (score of 50+).

Candidates may be required to take additional courses in the content area. After reviewing the student's undergraduate transcript(s) and MTEL scores, the program coordinator will determine if the student must take additional content courses.

Coursework

Courses in this program prepare middle and secondary school teachers to demonstrate competency in the five professional standards for teachers as defined by the Massachusetts Department of Elementary and Secondary Education. These are: planning curriculum and instruction, delivering effective instruction, classroom management, promoting equity, and meeting professional responsibilities. Each course addresses specific standards, while the entire program prepares candidates for the challenges of responding to the needs and developmental characteristics of middle and secondary school students.

This program also has a field-based component: 75 hours of pre-practicum fieldwork involving guided school observation, and a practicum (student teaching) experience of 300 clock hours in a middle or secondary school classroom under the supervision of a teacher and a university faculty

member. The 75 hours of pre-practicum fieldwork is completed over three pre-practicum courses. The practicum/student teaching experience is a full semester-long experience. The practicum can be completed at the candidate's school where he/she is employed as the practicing teacher of record. A seminar course is offered concurrently with the teaching practicum to provide students the opportunity for reflection and shared experiences.

It is recommended that the courses in the program be taken in sequence.

Secondary School Program Requirements:

Stage 1

ED 949	American Education Context or Influences (pre-practicum course*)	3 credits
ED 973	Instructional Design and Evaluation (pre-practicum course*)	3 credits
ED 901	Using Technology in the Classroom	3 credits

Stage 2

ED 909	RETELL: Best Practices for English Language Learners (pre-practicum course*)	3 credits
ES 925**	Inclusive Settings: Learning Strategies and Management Techniques (5-12)	3 credits
**(pre-requisite course of ED 949)		

Stage 3 (full-time experiential semester; courses taken concurrently)

ES 911	Teaching Practicum	5 credits
ES 908	Teaching Practicum Seminar	3 credits

Minimum Graduate GPA of 3.0
Total 23 credits

***25 hours of classroom observation required**

Middle School Program Requirements:

Stage 1

ED 949	American Education Context or Influences (pre-practicum course*)	3 credits
ED 957	Instructional Design and Evaluation (pre-practicum course*)	3 credits
ED 901	Using Technology in the Classroom	3 credits

Stage 2

ED 909	RETELL: Best Practices for English Language Learners (pre-practicum course*)	3 credits
ES 925**	Inclusive Settings: Learning Strategies and Management Techniques (5-12)	3 credits
**(prerequisite course of ED 949)		

Stage 3 (full-time experiential semester; courses taken concurrently)

ES 911	Teaching Practicum	5 credits
ES 908	Teaching Practicum Seminar	3 credits

Minimum Graduate GPA of 3.0
Total 23 credits

***25 hours of classroom observation required**

Course descriptions are found on page 136.

To access the Graduate application please go
to <https://applyweb.com/apply/worcest.menu.html>

MA Dept of Elementary and Secondary Education

information: www.doe.mass.edu

www.mtel.nesinc.com <http://www.worcester.edu/EducationDept/Shared%20Documents/Licensure.aspx> (*standards*)

POST-BACCALAUREATE CERTIFICATE PROGRAM FOR INITIAL TEACHER LICENSE IN MODERATE SPECIAL NEEDS

**Program Coordinator: Dr. Sue F. Foo Phone:
508 929-8071**

Email: sfoo@worchester.edu

Admissions Requirements:

Candidates for this program must hold a bachelor's degree from a regionally accredited school with a minimum grade point average (GPA) of 2.7. In addition, candidates for this program must pass three MTEs.

For candidates who are seeking licensure P-8, they must pass 1) Communication and Literacy, 2) Foundations of Reading, and 3) General Curriculum – multi subject test and mathematic sub-test.

For candidates who are seeking licensure 5-12, they must pass 1) Communication and Literacy, 2) Foundations of Reading, 3) General Curriculum – multi subject test and mathematic sub-test **or** Subject Matter test.

The Initial Licensure Program Requirements:

This program leading to an initial licensure in Moderate Special Needs (P-8 or 5-12), is a 21 credit, non-degree program. It consists of 18 credits of course work and a full time, three-credit practicum or practicum equivalent. The program is designed so that candidates may complete it in a 12-18 months period while working in a school setting.

The courses are:

ED 921	Developmental Patterns of Children with Special Needs
ED 923	Development and Implementation of an Individualized Education Program ED
922	Analysis and Interpretation of Behavior and Learning Environments
ED 924	Strategies for Assessing and Teaching Students with Moderate Special Needs ED 909
	RETELL: Best Practices for English Language Learners
ED 926	Curriculum Development and Instructional Techniques (Seminar) ED
928	Practicum for the Moderate Special Needs Teacher

Candidates begin by taking ED 921 Developmental Patterns of Children with Special Needs ED 909 RETELL: Best Practices for English Language Learners as a pre-requisite before taking the other courses. This course establishes central principles of the program which include high standards for all students based on issues pertaining to Special Education Federal and State Laws, categories of disabilities, celebration of diversity, family involvement, with an emphasis on inclusion and collaboration.

Students must complete ED 923 Development and Implementation of an Individualized Education Program, ED 922 Analysis and Interpretation of Behavior and Learning Environments, ED 924 Strategies for Assessing and Teaching Students with Moderate Special Needs prior to doing the practicum and seminar. Extensive pre-practicum experiences are built into these courses, as students work individually or in groups with children with and without disabilities in regular and/ or special education setting. Emphasis is placed on techniques to teach reading, language arts, and mathematics, as well as techniques for including students with special needs in general education settings.

In the final phase of the initial licensure program, candidates take ED 926 Curriculum Development and Instructional Techniques, and complete a full semester practicum experience ED 928 Practicum for the Moderate Special Needs Teacher that meets guidelines outlined in the Massachusetts Department of Education licensure regulations.

At the end of this sequence of experiences, students are evaluated orally and in writing using an instrument designed by college and clinical supervisors. They must demonstrate proficiency in the competencies listed in MA 603 CMR 7.06 26 (d) 1-6 [Subject Matter Knowledge Requirements for Teachers of Students with Moderate Disabilities] as well as the Professional Standards for Teachers outlined in MA 603 CMR 7.08 (2)].

To access the online application and admission requirements, please go to:

<http://worchester.edu/Graduate/Shared%20Documents/graduateadmissions.aspx>

To access the online information about the program, please go

to: <http://worchester.edu/Graduate/Shared%20Documents/Cert/CertModerateSpecialNeeds.aspx>

MA Department of Elementary and Secondary Education information:

www.doe.mass.edu [ww](http://www.mtel.com)

[w.mtel.com](http://www.mtel.com)

POST-BACCALAUREATE GRADUATE CRAFT CERTIFICATE

Program Advisors: Thomas O'Malley, MFA and Gale Scott, MFA

Program Description: Available in five craft concentrations (clay, glass, metals, wood, and photography), the Certificate is conferred by the Craft Center faculty as a formal recognition of a level of studio knowledge and accomplishment at an emerging professional level. The certificate represents a significant level of accomplishment, but it is not a university degree.

Students in the Certificate program generally maintain at least six credit hours of course work per semester.

*Although the Craft Certificate is a non-degree program, students **must be admitted to Worcester State University**. There is no federal/state financial aid available for the Certificate Program due to its non-degree status.*

Admissions Requirements:

The program is open to mature students who have an interest in Fine Craft and the desire to learn professional level skills in their chosen craft medium (glass, metals, clay, photography, or wood.) A bachelor's degree or equivalent is required for admission. The following must be submitted for consideration:

The Worcester State University application packet

- An application, including application fee
- An essay outlining career plans and goals in undertaking the program, and education and experience in crafts which may not be included on your transcript
- Official transcripts of all college work
- Two letters of recommendation

In addition the applicant must

- submit examples of work created in his/her chosen medium or related field. These may be submitted either in person or on a CD (jpeg format @ 300 ppi)
- participate in a brief in person or telephone interview (15-30 minutes)

List of Required Courses:

Certificate in Craft: (15 Credits)

AD 900 Design and Materials I* (3 credits) AD

910 Design and Materials II* (3 credits) 6

additional credits in Design and Materials

AD 920 Seminar in Craft (3 credits) OR

AD 930 New Directions in Crafts (3 credits)

*Beginning Craft classes require a drawing pre-requisite or co-requisite to be fulfilled by Worcester State University Course AR 140, Drawing I or by an accredited college level equivalent to such courses.

Advanced Certificate in Craft: (29 Credits) AD

940 Design and Materials III** (6 credits)

AD 950 Design and Materials IV** (6 credits) 6

additional credits in Design and Materials

AD 920 Seminar in Craft (3 credits) OR

AD 930 New Directions in Craft (3 credits)

Crafts Elective (3 credits)

AD 960 Professional Studies in Craft (2 credits)

**Intermediate Craft classes require a 3D design pre-requisite or co-requisite to be fulfilled by or AR 122 Visual Design-- 3 dimensions, or by an accredited college level equivalent to such courses.

Course Descriptions:

AD 500 Design and Materials I (3-6 credits)

Students learn basics of design and the use of materials for their designated studios in order to develop a body of functional work.

AD 510 Design and Materials II (3-6 credits)

Students expand design skills and use of the Intermediate level skills in design and use of the materials for their designated studios

AD 520 Seminar in Craft (3 credits)

Students use essays, periodicals, and visits to exhibits and museums to explore contemporary developments in crafts, considering issues such as tradition and innovation, process and material, functionality, decoration, containment, metaphor, figuration, and installation.

AD 530 New Directions in Craft (1-6 credits)

Students use the work and presentations of visiting artists and/or current exhibitions to explore contemporary developments in crafts, considering issues such as tradition and innovation, process and material, functionality, decoration, containment, metaphor, figuration, and installation.

AD 540 Design and Materials III (3-12 credits)

Students work on independent projects in the designated studios, using both historic and contemporary techniques. They explore advanced problems in the design and production of functional and nonfunctional works,

AD 550 Design and Materials IV (3-12 credits)

Students plan and produce work for the Culminating Exhibit in the designated studio— Students plan and create a coherent body of work in a selected area of emphasis. Participation in the Studio Exhibition is required.

AD 560 Critical Studies in Craft—3 Credits

Students will complete in depth research on the work of an individual artists, group of artists, and movements and relate this research to their evolving body of work.

AD 570 Special Topics: Design and Materials

Students and faculty develop and implement projects based on topics which respond to current issues and/or exhibits and provide opportunities for trans- disciplinary collaboration.

AD 580 Special Topics: Inspirations (3 credits)

Students and faculty explore topics, either historical or contemporary, which inspire art

AD 590 Professional Studies in Craft (2 credits)

Students demonstrate sophisticated intellectual, artistic, and esthetic growth through written critical analysis statements, exhibition, and oral presentations related to their final projects. Participation in the Studio Exhibition is required.

EDUCATION COURSE DESCRIPTIONS (GRADUATE)

ED 978 Contemporary Issues in Teaching of Bilingual and English as a Second Language Language policies for educating ELLs, including bilingual, national language models, heritage languages and multicultural education as managed in multilingual nations.

ES 928 Second Language Acquisition

Surveys the complex variables underlying second language acquisition (SLA) and the various perspectives that inform second language acquisition theories.

ES 914 Methods and Materials for Teaching English Language Skills to the ELL

Participants will analyze language learning processes for English Language Learners and appropriate method for teaching English language skills

ED 986: Literacy for the English Language Learner

Focuses on current approaches and theories of second language literacy and integrates reading and writing in classroom environments

ED 955 Assessing English Language Learners

Second language acquisition and linguistic principles guide the review of standardized instruments, dynamic assessment strategies, standards-referenced assessment and teacher design approaches.

ES 930 Sheltered Instruction and Assessment in the Immersion Classroom

Examines theories, principles and practices that assist English language learners in achieving academic proficiency while developing English language skills

ES 940 Practicum and Seminar in the Teaching of English as a Second Language (ESL) in grades Pre-K-6

150 hour teaching experience with weekly seminar on effective teaching for limited English speaking students at the grades preK-6 (5 credits)

ES 945 Practicum and Seminar in the Teaching of English as a Second Language (ESL) in grades 5-12

150 hour teaching experience with weekly seminar on effective teaching for limited English speaking students at the grades 5-12 (5 credits)

ES 929 Assessing and Teaching ELLs with Disabilities

Considers differences between typical and atypical second language acquisition.

ES 931 Leading an Effective English Learner Program

Considers the expectations for program implementation, evaluation, instruction and best practice for English learners in sheltered and bilingual educational programs.

ES 932 Teaching Adult ESL and SIFE

Designed to enhance teacher effectiveness in the adult ESL classroom taking into consideration their unique circumstances

ES 933 Global Perspectives in Cultural Diversity

Provides appreciation of increasing diversity in schools and examines how language is used to regulate power relations among social groups.

ES 934 ESL Seminar: Research in Language & Education

Using research of ESL pedagogies, studies of linguistically and culturally diverse learners, students evaluate, design and carry out action research.

ES 935 ESL Portfolio Evaluation

Completion of courses in ESL licensure and those required for the Masters of Education

EA 912 Foundations of Educational Administration

The purpose of this course is to provide individual students with an understanding of the theory and practical operation of public schools in the United States. An overview of the role of an administrator as described by the Massachusetts Department of Education will receive major emphasis. These include: leadership, administration, equity, community relationships, and professional responsibilities. The ISLLC standards will likewise be explored..

3 credits

EA 915 School Finance, Management and Administration

Pre-requisite: EA 912

This course will explore the evolution of Public School Finance, Management and Administration. Emphasis will be on studying effective management strategies dealing with local school finance systems and its impact upon educational goals and objectives.

3 credits

EA 918 School, Community and Family Relations

Pre-requisite: EA 912

This course is intended to equip the practicing school administrator with the techniques needed to deal with the long line of social challenges that affect children, families, communities and ultimately education. Emphasis will be placed on building collaborative relationships within and external to the educational setting that will ultimately benefit children.

3 credits

EA 920 School Business Management and Administration

Pre-requisite: EA 912

Studies the interaction between school management services and the total educational organization and its environment.

3 credits

EA 921 Fundamentals of School Finance

Pre-requisite: EA 912

Considers the financial support and the allocation of resources in public education. 3 credits

EA 922 Public School Administration

Pre-requisite: EA 912

Historical, philosophical, and sociological study of American school administration with major emphasis on the function, duties, and responsibilities of the school administrator.

3 credits

EA 923 Law for the Administrator

Pre-requisite: EA 912

An in-depth investigation of specific school laws and how they relate to the administration of a modern school system.

3 credits

EA 924 Curriculum Development and Evaluation

Pre-requisite: EA 912

This course examines curriculum development from a theoretical and practical perspective with a focus on the administrator's role in facilitating constructive curriculum change. Curriculum

development, implementation, alignment and evaluation will be included. MA state standards and assessment, NCLB, and models for curriculum change are discussed.

3 credits

EA 925 Staff Development: Theory and Practice

Pre-requisite: EA 912

Theories and methods of staff development and in-service education for program aims and personnel. Participants will develop strategies to plan, conduct, and evaluate school-based professional development activities.

3 credits

EA 927 School Plant and Development

Pre-requisite: EA 912

A practical investigation of the planning, developing and implementing of renovations, or construction of new facilities. Topics include evaluating public relations and the community, hiring an architect, warrants and bonds, building and developing facilities.

3 credits

EA 929 Capstone Course

Pre-requisites: Completion of all core courses.

A course designed to help the professional synthesize and reflect on information gained from coursework, fieldwork, and practicum relevant to the MEd in School Leadership. There is a two credit portfolio assignment that reflects the expectations set forth by the state of Massachusetts for licensure as a principal/supervisor or a three credit thesis option set forth by the Education Department at Worcester State.

2 or 4 credits

EA 931 Administration of Programs for Children with Special Needs

Pre-requisite: EA 912

The implications of legislation for administrators who are responsible for implementing these programs.

3 credits

EA 932 Educational Personnel Administration

Pre-requisite: EA 912

Study of the policies and problems associated with the selection, assignment, orientation, in-service programs, evaluations, promotion, and retention of the professional and nonprofessional staff of a school system.

3 credits

EA 933 Collective Bargaining Strategies

Pre-requisite: EA 912

A survey of the basic designs, strategies, and mechanisms used in preparing collective bargaining packages, counter proposals, and final proposals.

3 credits

EA 939 Action Research Project I EA

940 Action Research Project II

A two-semester course during which students will enroll for two consecutive semesters. During the two semesters students will meet both in large groups and individually in developing their action research projects.

3 credits per semester.

EA 941 Research Forum

2 credits

EA 942 Systems Analysis and Strategies for Institutional Change

Examines the key elements of effective leadership deemed necessary for 21st century schools. Focus is on how to bring forth innovation and continual progress.

3 credits

EA 950 Practicum Experience in Elementary Educational Administration

Pre-requisite: Completion of all core courses. A

300-clock-hour practicum experience.

4 credits.

EA 951 Practicum Experience in Middle School Education Administration

Pre-requisite: Completion of all core courses. A

300-clock-hour practicum experience.

4 credits.

EA 952 Practicum Experience in Secondary Education Administration

Pre-requisite: Completion of all core courses. A

300-clock-hour practicum experience.

4 credits.

EA 953 Practicum Experience in Supervision

A 300-clock-hour clinical experience. 4

credits.

ED 901 Using Technology in the Classroom

Today's students are adept at using the technologies as integral living tools. This course will examine the variety of techniques – including, the computer, web and software, film, TV, and other mass communications – and their applications in the classroom as learning tools. Discussions will center on the genres of technology appropriate for participants' grade levels, subject areas, and student population. Students will study computer capabilities, web research, electronic presentations, and explore software options and lesson planning. Visual literacy topics from moving and still images will be investigated as key teaching tools. Adaptive technologies will be profiled.

3 credits

ED 909 RETELL: Best Practices for English Language Learners

The course addresses research based institutional and assessment strategies for english language learners.

Working with culturally diverse learners 25 hours of pre-practicum experience.

3 credits

ED 910 The Child, Family, Community, and Diversity in Education

Advanced study of how differences in home experience, background knowledge and language proficiency impact school experience. Considers services provided by state and local agencies.

3 credits

ED 911 Advanced Foundations of Reading

Prerequisite: A prior course in reading

Current approaches to teaching reading and comprehension with an emphasis on classroom evaluation and decisions, research, and application.

3 credits

ED 912 Psychology in Teaching Reading

Provides an understanding of the psychological bases of the reading process; applies the theories of the psychologist to classroom situations.

3 credits

ED 913 Differentiated Reading Instruction

Stresses interrelationships of oral/written communication; investigates application of concepts, skills, and procedures for teaching literacy across a broad spectrum of student needs. Methods of differentiation instructions are discussed.

3 credits

ED 914 Teaching Reading in the Content Areas

Presents meaningful theory and related teaching strategies to aid pupils in reading and learning from their content area textbooks.

3 credits

ED 915 Administration and Supervision of Reading Programs

Design, implementation and evaluation of reading programs, legislation affecting reading programs, and reading staff development for the Teacher of Reading.

3 credits

ED 916 Literature in the Classroom

Introduces a balanced selection of literature and broadens the student's acquaintance with the exciting world of books from kindergarten through high school.

3 credits

ED 917 Diagnosis, Analysis, and Remediation of Reading Difficulties in the Middle and Upper Grades

Prerequisite: ED 911, ED 914, EL 907

Focuses on causes and symptoms of reading deficiencies and methods of treatment for 4-12 students in remedial situations; case study required.

3 credits

ED 918 Reading as Language: Teaching Literacy to English Language Learners

Explores knowledge, perspectives, and procedures for teaching literacy to English language learners, focusing on the interrelationship acquisition of reading.

3 credits

ED 919 Reading Practicum/Internship

Prerequisite: approval of Program Coordinator, passing score on Reading Specialist MTEL Candidate plans and implements the responsibilities of a Teacher of Reading in a field-based supervised setting.

3 credits

ED 920 Cognitive/Affective Learning for Typical and Atypical Children

Prerequisite: ED 981

Investigates cognitive/affective learning in typically developing children and children with special needs. Explores alternative instructional strategies for inclusion and IEP (Individualized Educational Plan) and IFSP (Individual Family Service Plan) implementation.

3 credits

ED 921 Developmental Patterns of Children with Special Needs

Study of the child/adolescent with special needs including characteristic psychological, educational, and sociological impact of developmental differences. Includes educational terminology for students with mild/moderate disabilities.

3 credits

ED 922 Analysis and Interpretation of the Behavior and Learning Environment of Children

Prerequisite: ED 921

Evaluation procedures used to assess academic, cognitive, affective, and behavioral functioning of the child and adolescent. Formal and informal techniques for evaluating the effectiveness of instruction are examined. Behavior management plans and assistive technologies are included. Pre-practicum. Behavior management plans and assistive technologies are included. Pre-practicum. 3 credits

ED 923 Development and Implementation of an Individual Educational Program

Prerequisite: ED 921

Considers federal and state laws regulating the development and implementation of individualized educational programs: Prereferral, assessment, eligibility, developing goals and objectives, program delivery and measuring progress. Pre-practicum
3 credits

ED 924 Strategies for Teaching and Assessing Students with Moderate Special Needs

Prerequisite: ED 921

Emphasis on MA curriculum frameworks, reading, writing, and mathematics, strategies for students with disabilities to access the general curriculum, alternate assessment procedures. Pre-practicum. 3 credits

ED 925 Seminar: Communication and Interpersonal Skills

Focuses on the theories and techniques of consultation. 3 credits

ED 926 Seminars Curriculum Development and Instructional Techniques

Prerequisites: ED 921, ED 922, ED 923, ED 924

Principles of curriculum development and the use of instructional techniques for special needs students. Some field work.
3 credits

ED 927 Inclusive Settings: Learning Strategies and Management Techniques (1-6)

This course addresses the learning and behavior needs of special learners and helps teachers to develop strategies and techniques that can be used to improve knowledge and skills of all students in inclusion settings. Managing classroom behavior to enhance teaching and learning will be a focus in this course.
3 credits

ED 928 Practicum for the Moderate Special Needs Teacher

Prerequisite: ED 921, ED 922, ED 923, ED 924

A field-based experience in which the student demonstrates competencies in the delivery of direct services: assessment procedures, educational planning, classroom management, curriculum development, and in-service education.
3 credits

ED 929 Mathematics Assessment and Instruction for Diverse Learners

This course presents mathematical concepts, methods and materials to facilitate learning. Emphasis is also placed on supporting students with mild to moderate disabilities learn and understand mathematic contents.
3 credits

ED 936 Counseling the Adolescent

Designed for students preparing to counsel adolescents. Focuses on adolescent patterns of development and the behaviors associated with them. Typical adolescent crises are explored with specific strategies to deal with them.
3 credits

ED 939 Individual Intelligence Appraisal (WAIS-WISC)

Prerequisite: Introductory course in measurement

Study of two major Wechsler tests, Wechsler Adult Intelligence Scale (WAIS), and the Wechsler Intelligence Scale for Children (WISC). Includes administration and interpretation of both of these scales.

3 credits

ED 941 Counseling the Elementary School Child

Investigates the various age-related problems found in the elementary school age child of today. Various counseling strategies to deal with these problems will be explored.

3 credits

ED 949 American Education: Contexts and Influences

Examines the social and historical contexts of American schools, noting appropriate psychological principles, learning theories philosophies, political and demographic trends, and their influences on educational policies and classroom

practices. 3

credits

ED 950 Integrating Science and Social Studies in the Elementary/Middle Schools

Curriculum development workshop focusing on creation of thematic units integrating science and social studies using cooperative learning models.

3 credits

ED 951 Integrating Language Arts and Social Studies in the Elementary/Middle Schools

Curriculum development workshop focusing on integrating Language Arts and Social Studies utilizing children's literature, reading, and writing skills.

3 credits

ED 953 Integrating Science and Mathematics in the Elementary/Middle Schools

Curriculum development workshop focusing on the creation of thematic units integrating science and mathematics using cooperative learning models.

3 credits

ED 954 The Nature and Needs of Young Adolescents

Examines the needs and characteristics of young adolescents and the corresponding implications for middle school curriculum, instruction, classroom management and organization.

3 credits

ED 956 The Middle School: History, Philosophy and Organization

Prerequisite: The three required core courses

A comprehensive examination of the Middle Schools in terms of history, philosophy, structure, curriculum patterns and organization, team planning and team teaching, block scheduling, etc. Students characteristics and societal factors which impact upon students' behavior in the Middle Schools are addressed.

3 credits

ED 957 Instructional Design and Evaluation for Middle School Grades

Prerequisite: ED 949

Reviews relevant models of instruction and their application in middle school grades. Examines appropriate evaluation strategies and approaches designed to give students the ability to plan and implement overall assessment strategies, including alternative assessment and the use of technology in instruction and evaluation. Includes 25 pre-practicum hours.

3 credits

ED 958 Middle School Curriculum and Instruction: Strategies and Modification

Designed to give students the ability to design and present instruction in ways that are commensurate with the developmental needs and readiness of early adolescent learners. The issues of inclusion, cooperative learning, block scheduling, thematic, and integrated curriculum and interdisciplinary curriculum are examined.

3 credits

ED 959 Assessment and Classroom Management in The Middle School

Prerequisite: ED 958

Designed to give students the ability to plan and implement overall assessment strategies appropriate for middle school grades. The course examines developmentally appropriate classroom management strategies and techniques.

3 credits

ED 960 Educational Law

An in-depth investigation of specific school laws and how they relate to the role of the teacher and administrator.

3 credits

ED 961 Educational Supervision and Evaluation

Designed to develop competency in the supervision and evaluation of teachers. 3 credits

ED 963 The Understanding and Teaching of Culture

Approaches to cultural analysis and survey of techniques used to teach culture in the classroom. 3 credits

ED 964 Current Issues in Education

Emphasis will be placed on problem solving and case study approaches. Variable credit.

ED 965 Principles of Curriculum Development

Aspects of curriculum development, society, culture, learning theories, taxonomies of educational objectives, structure, hierarchy, balance, politics, strategy for change.

3 credits

ED 968 Seminar in Curriculum and Instruction

Prerequisite: ED 965

Discussion and evaluation of curriculum and instruction as applied to real or theoretical construct. 3 credits

ED 969 Teaching to Diversity: Methods and Materials (Middle School)

Prerequisite: Completion of all core courses

Explores appropriate instructional strategies and school practices which promote equity pedagogy in middle school classes. Identifies basic manifestations of diversity in our society and classroom and considers relevant methods of building bridges between the learner and the curriculum through instructional adaptations.

3 credits

ED 970 Workshop for Educators

Specialized workshop experiences structured to enhance teacher abilities to implement new educational practices.

Variable credit.

ED 971 Special Topics

In-depth exploration of contemporary educational topics or issues. Variable credit.

ED 972 The Adolescent Learner: Needs and Characteristics

Examines the needs and characteristics of the adolescent learner and the corresponding implications for curriculum, instruction, classroom management and school organization.

3 credits

ED 973 Instructional Design and Evaluation for Secondary School Grades

Prerequisite: ED 949

Reviews relevant models of instruction and their application in secondary school grades. Examines appropriate evaluation strategies and approaches designed to give students the ability to plan and implement overall assessment strategies, including alternative assessment and the use of technology in instruction and evaluation. Includes 25 pre-practicum hours

3 credits

ED 974 Curriculum Development and Innovations (Secondary School)

Draws upon extensive review of the literature on curriculum theory and models of instruction to examine relevant innovations in curriculum development and instructional delivery; noting their practical applications in Secondary Schools.

3 credits

ED 975 Assessment and Classroom Management in The Secondary School

Prerequisite: ED 974

Designed to give students the ability to plan and implement overall assessment strategies appropriate for secondary school grades. The course examines developmentally appropriate classroom management strategies and techniques.

3 credits

ED 976 Teaching to Diversity: Methods and Materials (Secondary School)

Prerequisite: Completion of all core courses

Explores appropriate instructional strategies and school practices which promote equity pedagogy in secondary school classes. Identifies basic manifestations of diversity in our society and classrooms, and considers relevant methods of building bridges between the learner and the curriculum through instructional adaptation.

3 credits

ED 977 Seminar in Contemporary Trends and Issues in Middle & Secondary Schools

Prerequisite: Completion of the core courses

Examines contemporary issues and trends in middle and secondary school curriculum, instructional delivery, assessment, classroom management, and the use of technology.

3 credits

ED 980 Independent Study in Education

An opportunity for further study in a special field of interest under faculty supervision. 3 credits

ED 981 Advanced Foundations of Education

Explores historical, philosophical, psychological, legal, and cultural foundations for education and school practices. Sets the stage for philosophical and theoretical requirements in ES 926 Portfolio Evaluation.

3 credits

ED 982 Research in Education

Examines research methods and designs in education and/or content areas; involves writing, hypotheses, reviewing literature, gathering data, and preparing research proposals.

3 credits

ED 983 Theory and Research in Reading

Prerequisite: ED 982, Completion of all reading core courses

Investigates theories and research regarding current trends in reading instruction and provides for completing a research project.

3 credits

ED 984 Reading Portfolio

Prerequisite: Approval of Program Coordinator, completion of all program courses

Capstone experience for Teacher of Reading Candidates to document accomplishment of state certification competencies and program requirements.

1 credit.

ED 987 Social, Political and Cultural Issues in Education

Examines the social, cultural, and political forces that shape schools, and provide the context for teaching and learning. Additionally, the types of existing and desired relationships among schools, families and communities will be discussed.

3 credits

ED 988 Brain Based Learning

This course has been designed to strengthen teachers' own knowledge of the latest findings in neuroscience as they relate to the field of education. Topics span a wide range of neuroscience research including biological basis of learning and memory, brain mechanisms underlying language acquisition, gender differences, and disorders of thought. Special emphasis is given to the limitations and misuse of research by some, and the need for skepticism and replication when evaluating "brain-based" claims of service providers. Participants in this course will be active learners, analyzing current research articles, and reflecting on their own experiences as both learners and educators in the context of neuro-education.

3 credits

ED 989 Technology and Educational Leadership

Explores the role of the educational leader in the choice, acquisition, and use of technology for management and learning.

3 credits

ED 990 Independent Research in Education

Prerequisite: Matriculated Graduate Student

For students wishing to pursue an independent research study in a specialized area of education. 3 credits

ED 992 Portfolio Evaluation

Prerequisite: All required license courses and approval of program coordinator

Documents the student's learning and provides a basis for evaluation of student's overall performance and mastery of the certification standards.

1 credit.

ED 993 Seminar: Research in Content Concentration

Prerequisite: Completion of 24 graduate credits in Master's Program and completion of a minimum of 18 credits in the content area of concentration.

In-depth research course in the issues of childhood education. Students will conduct a formal study

that seeks to investigate teaching and learning in the student's content strand of concentration. 3 credits

ED 994 Thesis Seminar

Prerequisite: Completion of all core and required courses.

Students work with faculty advisor(s) to design, implement, and evaluate a formal study that seeks to investigate a significant issue, professional and content related in secondary school education.

The focus is on the application of research skills and the presentation of research reports. 3 credits

ED 995 Elementary Education Clinical Experience: Grades 1-6

Prerequisites. ED 981, ED982, ED 910, ED920, EL 906, EL 907

Teaching experience, grades 1 through 6. Involves planning, implementing, evaluating learning in a setting with typical and atypical students.

5 credits.

ED 996 Research and Evaluation

Research and evaluation methods and designs; includes gathering and analyzing data, writing research, and making evaluation reports.

3 credits

ED 997 Advanced Philosophical Foundations of Education

Examines the basic principles of some major philosophers and demonstrates their effect on contemporary educational theories in the western tradition.

3 credits

ED 998 Advanced Psychological Foundations of Education

Analysis of major schools of psychology with attention to contemporary issues. Role of the educator in the learning process and application of psychological principles to specific classroom situations. 3 credits

ED 999 Internship in Education

A 400-clock-hour internship in an area of professional education. 3, 6, or 12 credits.

EE 900 Literature for Young Children

Survey of quality literature appropriate for early childhood, development of programs in literature and effective storytelling procedures.

3 credits

EE 901 ECE: Curriculum and Evaluation

Addresses design, implementation, evaluation of integrated, developmentally appropriate programs; evaluation of children's development and learning; curriculum content; play learning.

3 credits

EE 902 Methods and Materials in Early Childhood Education

Focuses on activities designed to enable young children to use their abilities to the fullest. 3 credits

EE 903 Language Arts in Early Childhood: Content, Curriculum, Evaluation, Methods and Materials

Explores topics from MA English Language Arts Curriculum Frameworks. Addresses design, implementation, assessment of integrated, developmentally appropriate Language Arts programs. 3 credits

EE 904 Exploring Science in Early Childhood Education

Uses MA Frameworks to develop and assess activities that foster learning and discovery. Connects science with literacy, mathematics, and social studies.

3 credits

EE 905 Evaluation and Remediation Techniques of Young Children with Special Needs

Multidisciplinary approach to the evaluation of children with special needs. 3 credits

EE 906 Practicum In Early Childhood Education

An intensive supervised field experience involving daily interaction with young children of ages three to five.

3 credits

EE 907 Intellectual Development in Early Education

Examines the intellectual levels of children based on current research including Piaget and others. 3 credits

EE 908 Evaluation of the Young Child

Understanding and interpreting the results of psychological and educational tests of pre-school age children. 3 credits

EE 909 Supervision and Administration in Early Childhood Education

Outlines steps for the organization and administration of day care centers, nursery schools, and other programs for young children.

3 credits

EE 910 The Pre-School Child with Special Needs

Detection, evaluation, and remediation of learning disabilities in young children from three years. 3 credits

EE 911 Early Literacy for Young Children

This course focuses on the skills and techniques for presenting readiness skills and teaching beginning reading to children.

3 credits

EE 912 Young Children and Inclusive Early Childhood Practices

Prerequisites: ED 920, EE 901, or Permission of Instructor

Adapts programs, materials, practices, environments for individuals. Implements theories integrating special needs children into regular classroom and early intervention strategies.

3 credits

EE 913 Social Studies in Early Childhood: Content, Curriculum, Evaluation, Methods and Materials

Explores topics from MA History and Social Studies Curriculum Frameworks. Addresses design, implementation, assessment of integrated, developmentally appropriate Social studies programs. 3 credits

EE 915 Detection and Remediation of Early Reading Difficulties

Prerequisite: A course in teaching reading to children

Addresses beginning reading difficulties, identification techniques, including observational surveys and running records, causes and prevention strategies, remedial material/techniques, national programs.
3 credits

EE 916 Mathematics in Early Childhood Education: Content, Curriculum, Evaluation, Methods and Materials

Addresses design, implementation and evaluation of successful, integrated, developmentally appropriate mathematics programs. Explores topics from MA Curriculum Frameworks.
3 credits

EE 917 The Fine Arts in Early Childhood: Content, Curriculum, Evaluation, Methods and Materials

Uses MA Frameworks to develop and assess activities fostering learning and creativity. Connects the arts with literacy and social studies.
3 credits

EE 919 Seminar in Early Childhood Education

Current Issues and problems in the field of early childhood education. 3 credits

EE 920 Independent Research in Early Childhood Education

For students wishing to pursue independent study in a specialized area of early childhood education. 3 credits

EE 930 Environments and Programs for Infants and Toddlers

Prerequisite: Permission of Instructor

Designing developmentally appropriate programs for infants and toddlers, includes environment, play, curriculum, materials. Identification, intervention strategies for at risk infants/toddlers.
3 credits

EE 931 Infant and Toddler Development and Care

Theory and research regarding typically developing and at risk infants/toddlers are studied. Caregiving procedures are addressed.
3 credits

EE 950 Clinical Experience in Early Childhood Education: N (Infant, Toddler, Preschool) Level

Prerequisite: Permission of the Department

Supervised teaching experience at infant, toddler, preschool level. Involves planning, implementing, evaluating learning. Minimum 200 hours over a minimum 8 week period – 3 credits; 400 hours (entire semester) – 6 credits.
3 or 6 credits.

EE 952 Special Topics in Early Childhood Education

In-depth exploration of contemporary issues and topics in early childhood education. 3 credits

EE 955 Clinical Experience in Early Childhood Education: Kindergarten – Grade 3 Level

Prerequisite: Permission of the Department

Teaching experience, kindergarten through grade 3. Involves planning, implementing, evaluating learning with typical and atypical children. 200 hours: 3 credits; 400 hours: 6 credits.
3 to 6 credits.

EL 900 The Gifted Child

Methods for identifying the gifted student; characteristics and personal factors of the gifted; techniques and approaches for curriculum development.

3 credits

EL 902 Newspapers in Education

Newspapers are explored for their historical aspects, actual composition, freedom of the press, and behind-the-scenes production aspects. Learning activity packets are developed utilizing newspapers.

3 credits

EL 903 Theory and Research in the Elementary School Curriculum

Prerequisite: ED 996

Emphasizes ability to recognize, select, and pursue independent action research in one or more areas of the elementary school curriculum.

3 credits

EL 904 Instructional Leadership of the Elementary School

The many facets of elementary school administration and organization; the role of the principal as an administrator in the larger setting of present day education is stressed.

3 credits

EL 905 Seminar in Current Issues in Elementary Education

Prerequisites: Three graduate level education courses approved by advisor Symposium approach. Reading, writing, and discussion relevant to major issues. 3 credits

EL 906 Contemporary Curriculum and Instruction for Elementary School

Prerequisites: ED 981, ED 910, ED 920

Investigates current and evolving patterns of curriculum and instruction noting forces and issues which affect curriculum. Special attention will be given to National and State Educational Reform Issues and in particular the Massachusetts Curriculum Frameworks. This course addresses design, implementation, and evaluation of successful, integrated curriculum content.

3 credits

EL 907 Assessing Teaching and Learning in Elementary Education

Prerequisites: ED 982, EL 906 (for M.Ed. in Elementary Education Students)

Studies current methods for assessment in elementary classrooms, creating traditional evaluations, portfolios, observations, checklists, self-assessment and using standardized tests.

3 credits

EP 901—EP 993 School Psychology “See pages 44-49 for course descriptions”**ER 901 Reading Research Seminar: Struggling Adolescent Readers/Writers**

Provides an overview and review of research and literature in the field of adolescent literacy. Both the content and methodology of the research will be studied.

3 credits

ER 902 The Role of the Literacy Coach: Professional Leadership & Adult Learners

Explores the role and responsibilities of the literacy coach across school settings including developing effective literacy instruction and professional development.

3 credits

ER 903 The Role of the Literacy Coach Part II: Strategies to Enhance Reading & Writing Examines current theory regarding adolescent literacy, research-based instructional strategies, & practices designed to support literacy development across content areas.

3 credits

ER 925 Reading and Research Forum (Capstone Experience)

Prerequisite: Approval of Program Coordinator and completion of all required courses 2 credits.

ES 900 Instructional Leadership of Middle and Secondary school

The role of the principal and assistant principal in the administration. 3 credits

ES 901 Language and Language Teaching

Prerequisite: Completion of at least two secondary education courses

A survey of linguistic theories and derived methodologies relevant to teaching a foreign language. 20 hour field experience included.

3 credits

ES 902 Learning Skills for Adolescents

Reading, study and communication skill instruction, appropriate for content instruction in middle and high schools. 15 hour field experience.

3 credits

ES 903 The Art of Teaching Adolescents

Underlying reasons and means for pursuing excellence in teaching middle and high school students; implications for discipline and leadership.

3 credits

ES 904 Curriculum and Instruction for Adolescents

Developing and matching curriculum to high school students' personal and social needs. 15 hour field experience.

3 credits

ES 905 Methods and Materials for Teaching Humanities

Prerequisite: Completion of at least two secondary education courses

Techniques and microteaching practice in teaching high school English, social studies, and other humanities. 20 hour field experience.

3 credits

ES 906 Methods and Materials for Teaching Science and Math

Prerequisite: Completion of at least two secondary education courses

Techniques and microteaching practice in teaching high school subject areas in math and the sciences. 20 hour field experience.

3 credits

ES 907 Individualizing Instruction in the Middle and Secondary School

Examines ways in which teachers may individualize instruction in middle and secondary schools. 3 credits

ES 908 Teaching Practicum Seminar (Middle and Secondary Grades)

Prerequisite: Completion of all pre-practicum courses and enrollment in the teaching practicum course
Involves guided analysis of principles of teaching and classroom procedures in terms of how theories relate to actual practices.

3 credits

ES 909 Clinical Thesis Seminar

Prerequisite: Completion of all core, required, and elective courses

Students work with faculty advisor(s) to design, implement, and evaluate a formal study that seeks to investigate a significant issue, professional and content-related middle school education. The focus is on the application of research skills and the presentation of research products. Provide opportunities to exchange reflective clinical experience.

3 credits

ES 910 Evaluation of Classroom Learning in Middle & Secondary Schools

Rationale and means for formative and summative evaluation, mastery learning, assessing higher order thinking, and improving learning attitudes and performance.

3 credits

ES 911 Teaching Practicum

Prerequisite: Completion of required education courses and other eligibility requirements.

Student teaching for Massachusetts Certification in Middle or High School. Seminar or other approved means for reflection on experience.

5 credits.

ES 912 Curriculum and Instruction in the Middle School

Addresses the unique nature of the middle school curriculum; with a focus on learning centers, mastery learning and learning activity packets.

3 credits

ES 913 Methods and Materials for Teaching in the Middle School

Focuses on the interdisciplinary nature of instruction in the middle school with particular emphasis placed on the role of team teaching.

3 credits

ES 914 ESL Methodology

Addresses topics in second language acquisition and applied teaching methodology in teaching English to speakers of other languages.

3 credits

ES 915 Secondary School Curriculum Development: Theory and Practice

Prerequisites: ED 981, ED 982

Examines relevant theoretical frameworks for instructional design and implementation, noting individual differences and societal factors in curriculum adaptation and evaluation.

4 credits.

ES 916 Approaches To Teaching in the Middle School: Theory and Practice

Prerequisites: ED 981, ED 982, ES 922 (ES 922 may be taken concurrently)

Examines teaching strategies appropriate to the middle school with an emphasis on team teaching and an integrated curriculum.

4 credits.

ES 917 Approaches to Teaching in the Secondary Schools: Theory and Practice

Prerequisites: ED 981, ED 982, ES 915 (ES 915 maybe taken concurrently)

Examines advanced pedagogy and develops and implements teaching strategies which promote meaningful learning for all students at the high school level.

4 credits.

ES 918 Assessing Teaching and Learning at the Middle School: Theory and Practice

Prerequisites: ED 981, ED 982, ES 922 (ES 922 may be taken concurrently)

Concepts taught include writing instructional objectives, constructing various types of instruments to assess student learning in middle grades including alternative assessment, grading, standardized testing.

3 credits

ES 919 Assessing Teaching and Learning in Secondary Schools: Theory and Practice

Prerequisites: ED 981, ED 982, ES 915 (ES 915 May be taken concurrently)

Writing instructional objectives, constructing various types of instruments to assess student learning in the high school, to include alternative assessments, grading, and standardized testing.

3 credits

ES 920 Clinical Experience in the Middle Grades (5-9)

Prerequisites: ES 916, ES 918, ES 922

Teaching experience, grade 5 through grade 9. Involves planning, implementing, and evaluating learning in a setting with typical and atypical students.

5 credits.

ES 921 Clinical Experience in Secondary Grades (9-12)

Prerequisites: ES 915, ES 917, ES 919

Teaching experience, grade 9 through grade 12. Involves planning, implementing, evaluating learning in a setting with typical and atypical students.

5 credits.

ES 922 Middle School Curriculum Development: Theory and Practice

Prerequisites: ED 981, ED 982

Examines relevant theoretical frameworks for instructional design and implementation at the middle school in keeping with national reports.

3 credits

ES 923 Mathematics Assessment and Instruction for Diverse Learner

Formal and informal means of assessing students mathematical performance. Strategies to increase mathematics performance for students with disabilities.

3 credits

ES 924 Analysis and Interpretation of the Behavior and Learning Environment of Children and Adolescents Grades 5-12.

Procedures to assess academic, cognitive, affective, and behavioral function of children/adolescents in grades 5-12. Techniques to prepare and maintain students with disabilities in general education. 3 credits

ES 925 Inclusive Settings: Learning Strategies and Management Techniques (5-12)

Learning and behavior needs of children with disabilities. Developing strategies to improve teaching and learning for all students in inclusive grade 5-12 classrooms.

3 credits

ES 926 Portfolio Evaluation

1 credit.

MA 916 Probability

Probability, combinatorial methods, random variables, probability functions, moments, moment generating functions, central limit theorem, sampling.

3 credits

MA 918 Mathematical Statistics

Decision theory, estimation, hypothesis testing, regression and correlation, analysis of variance. 3 credits

MA 920 Linear Algebra

Fundamental concepts of systems of linear equations, matrices, vector spaces, linear transformations, determinants, inner products, eigenvalues, and eigenvectors.

3 credits

MA 925 Number Theory

Includes divisibility, primes, congruence, primitive roots, and quadratic residues. 3 credits

MA 975 Abstract Algebra

Elementary properties of groups, rings, integral domains, and fields. Groups through Sylow theory and 1) field theory through Galois theory 2) ring theory through primary decomposition or 3) linear algebra through Jordan canonical forms.

3 credits

MT 910 Understanding K–8 Mathematics: Number and Operations

Develops and strengthens teachers' knowledge and understanding of the number sense and operations strand of elementary and middle school mathematics.

3 credits

MT 911 Understanding K-8 Mathematics: Probability and Statistics

Teachers will develop and strengthen their knowledge of statistical and probabilistic concepts. Presentations will include investigations appropriate to elementary and middle school classrooms. 3 credits

MT 912 Understanding K-8 Mathematics: Patterns, Functions, and Algebra

Develops and strengthens teachers' knowledge and understanding of the patterns, functions and algebra strand of elementary and middle school mathematics.

3 credits

MT 913 Understanding K-8 Mathematics: Geometry and Measurement

Teachers will develop and strengthen their knowledge of the geometry and measurement strand of elementary and middle school mathematics.

3 credits

MT 933 Understanding High School Mathematics: Geometry

Teachers will develop and strengthen their knowledge of Euclidean Geometry. 3 credits

MT 935 Discrete Mathematics for High School Teachers

Teachers will develop and strengthen their knowledge of discrete mathematics. The course will emphasize connections to high school mathematics curriculum.

3 credits

MT 971 Special Topics

Special topics in elementary, middle and/or school mathematics. 3 credits.

ADDITIONAL GRADUATE COURSES

Physical and Earth Sciences

NS 999 Independent Study in Natural Science

Individualized course of research or study undertaken in consultation with a faculty member.

GS 999 Independent Study in Earth Science

Individualized course of research or study undertaken in consultation with a faculty member.

GE 999 Independent Study in Human Geography

Individualized course of research or study undertaken in consultation with a faculty member.

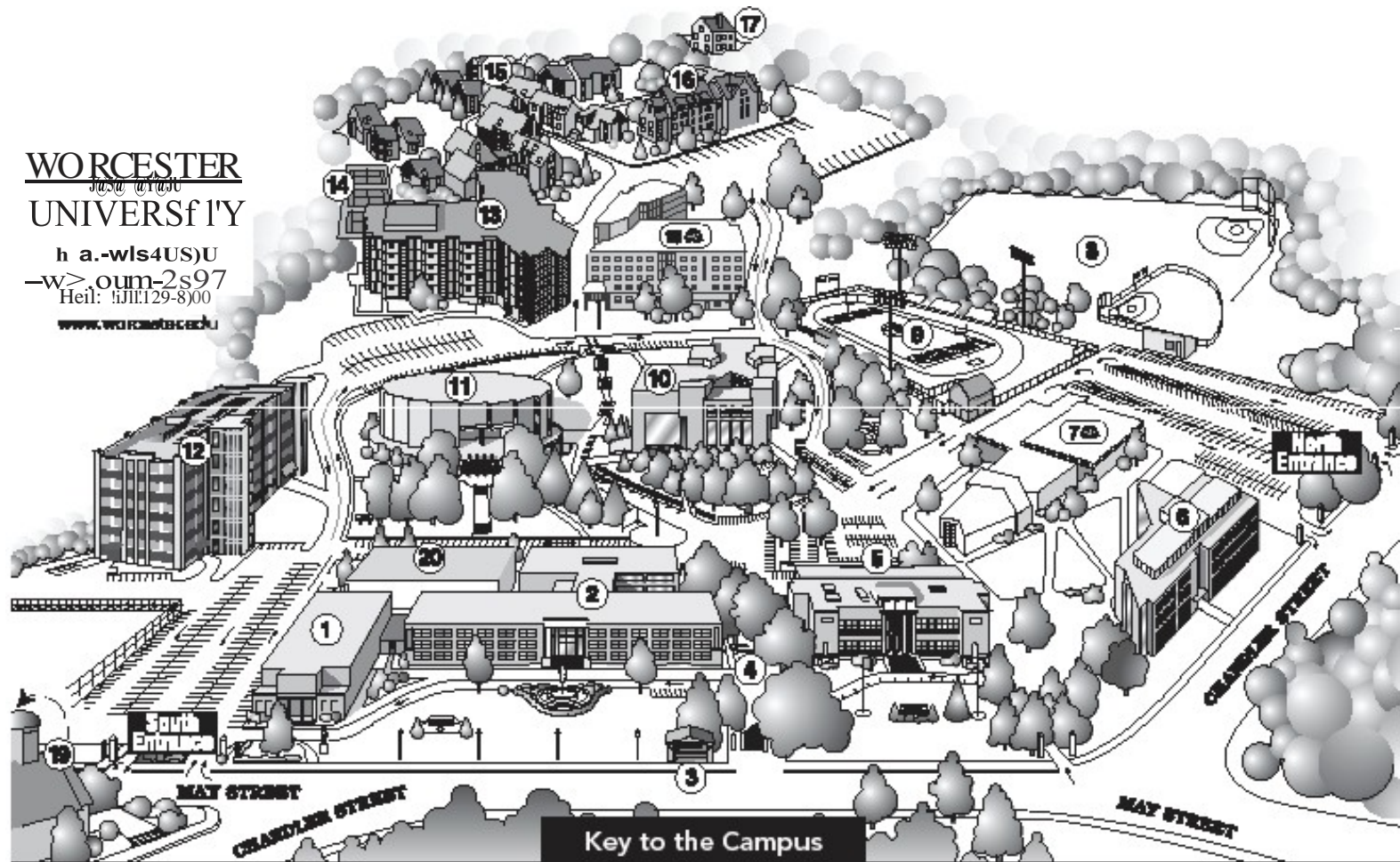
Visual and Performing Arts:

MU 990 Special Topics

An exploration of a topic of mutual interest to a student and faculty. 1-6 credits

WORCESTER UNIVERSITY

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Key to the Campus

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|--|--|---|---|
| <p>1 Sullivan Auditorium
 2 Sullivan Academic Center
 & BUS "uditorun-TUJI"
 Silhu11 Gmtmoris =UPP DPGU MTGPPS
 3 Bus Shelter
 4 Satellite Parking Shuttle Services
 5 Helen G. Shaughnessy
 Administration Bldg.
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 7 Health & Wellness Center-
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 Rockwood Field
 9 Coughlin Athletic Field
 10 Student Center
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 12 Parking Garage
 13 Wasylean Hall-Residru
 KBWB VODDJP</p> | <p>14 Tennis Courts
 15 Chandler Village-Residmct
 16 Dowden Hall-Reridalt
 17 Campus Mistry
 16 Siieeian Maii tllcc-
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 19 May Street Building & Auditorium
 20 Athletic Offices/Health Services</p> |
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Directions to the Campus

Worcester State University

is located in Worcester, Massachusetts, New England's third largest city, a thriving community of 162,000 residents. Worcester is located 40 miles west of Boston. The campus is easily accessible by auto, bus, or train from anywhere in New England.

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)

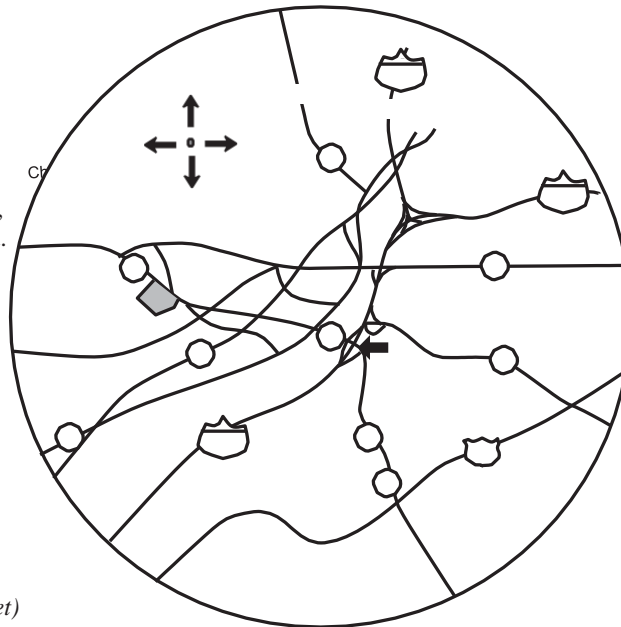
From Rt. 146 North: Take Rt. 146 North to Rt. 290 East. (see from 290 East)

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, bear left onto June Street. At the second light, turn right onto May Street. The main entrance to the University will be three blocks ahead on your left.



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Telephone: 508-929-8000

Normal office hours are
9 a.m. to 5 p.m. Monday through Friday

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